



Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution affiliated to Ra shtrasant Tukadoji Maharaj Nagpur University)

Hingna Road, Wanadongri, Nagpur - 441 110

NAAC Accredited with 'A++' Grade

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Summary

1.2.2 Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented (Data for the latest completed academic year)

Year	2022-23
Number of Programmes UG	12
Number of Programmes PG	06
Number of Programmes (UG+PG)	18
Percentage of Programmes	100%

- Circular of University stating implementation of (CBCS)/elective course
- Highlighted SoE of Choice Based Credit System (CBCS)/elective course



Principal
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**Circular of University stating
implementation of CBCS**

:1:



RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY

(Established by Government of Central Provinces Education Department by Notification No. 513 dated the 1st of August, 1923 & presently a State University governed by Maharashtra Universities Act, 1994)

Direction No. 3 of 2016

**NORMS AND PROCEDURE FOR GRANT OF AUTONOMY TO UNIVERSITY
DEPARTMENTS OR INSTITUTIONS, AFFILIATED COLLEGES AND
RECOGNISED INSTITUTIONS, DIRECTION, 2016**

(Issued under Section 14(8) of the Maharashtra Universities Act, 1994)

Whereas, the Maharashtra Universities Act, 1994 has come into force with effect from 22nd July, 1994. (hereinafter referred to as the Act);

AND

Whereas, Sub-Section (1) of Section 89 of the aforesaid Act provides that a University Department or Institution, Affiliated college or Recognised Institution may apply to the university for grant of autonomous status. The Management Council on the recommendation of the Academic Council may confer the autonomous status;

AND

Whereas, Clause (Z) of Section 28 of the aforesaid Act provides that an autonomous status on University Departments, affiliated colleges and Recognised Institutions shall be conferred on the recommendation of the Academic Council by the Management Council subject to the pre-determined norms approved by the State Government having regard to the guidelines of the University Grants Commission;

AND

Whereas, the University Grants Commission, New Delhi has issued guidelines for autonomous colleges during the XII Plan Period (2012-2017);

:2:

AND

Whereas, the Direction regarding conferment of autonomous status for College/ Recognised Institute/University Department/University Institution, Direction No 4 of 1999, issued by the then Vice Chancellor on 6-10-1999, is in existence in the University because of non-receipt of assent to the Draft Statute No. 1 of 1999 from the Honb'le Chancellor;

AND

Whereas, the University Grants Commission Guidelines For Autonomous Colleges have been adopted by the Vice Chancellor on behalf of the Board of College and University Development, the Academic Council and the Management Council of the University, under section 14(7) of the Maharashtra Universities Act, 1994;

AND

Whereas, norms regarding grant of autonomy to the University departments or institutions, affiliated colleges and recognized institutions, are required to be regulated by the statute as provided by sub-section(11) of Section 51 of the Act;

AND

Whereas, no statute is assented to by the Honbl'e Chancellor relating to the matter;

AND

Whereas, passing of the new statute by the Senate in respect of the matter is a time-consuming process;

AND

Whereas, the provisions of the existing Direction No. 4 of 1999 are not consistent with the provisions of the guidelines for autonomous colleges issued by the University Grants Commission, New Delhi;

AND

Whereas, the existing Direction No. 4 of 1999 is required to be substituted by a new Direction to be issued on the basis of the provisions of the guidelines for autonomous colleges issued by the University Grants Commission, New Delhi;

AND

Whereas, the guidelines for autonomous colleges issued by the University Grants Commission, New Delhi are to be made effective for the sake of convenience of the Institutions concerned;

Now, therefore, I, Dr. Siddharthvinayaka P. Kane, Vice-Chancellor, Rashtrasant Tukadoji Maharaj University Nagpur in exercise of the powers vested in me under Section 14(8) of the Maharashtra Universities Act, 1994, do hereby issue the following Directions:-

1. This Direction may be called, "Norms and procedure for grant of autonomy to university Departments or Institutions, Affiliated colleges, and Recognized Institutions ,Direction,2016."
2. This Direction shall come into force with effect from the date of its issuance
3. In this Direction, unless the context otherwise requires:-
 - a) "Act" means the Maharashtra Universities Act,1994 i.e. Maharashtra Act No. xxxv of 1994.
 - b) "Academic council" means a council constituted as per provisions of sub-section (2) of section 29 of the Act;
 - c) "Affiliated college" means a college which has been granted affiliation by the university
 - d) "Authority" means the authorities of the university as specified by or under the Act;
 - e) "Autonomy" means a privilege of the university conferred by the statutes to permit a college, institution or a university department to conduct academic programmes and examinations, develop syllabus for the respective subjects, and issue certificates of passing the examinations, etc. A college, institution or a university department which has been granted autonomy shall have full academic, administrative, and financial autonomy subject to the provisions of the Act and Statutes;

- f) "Autonomous college", "Autonomous institution" or "Autonomous department" means a college, institution or department to which autonomy is granted and is designated to be so by the Statutes;
- g) "Board of College and university Development" means a Board constituted under Provision of Section 35(2) of the Act;
- h) "College" means a college conducted by the university, affiliated to the university, situated in the university area;
- i) "conducted college" means a college maintained and managed by the university;
- j) "institution" means an academic institution of higher learning, not being a college, associated with and admitted to the privileges of the university;
- k) "Local Managing Committee" means a committee constituted for a college under the provisions of the Act;
- l) "management" means the trustees or the managing or governing body, by whatever name called, or any trust registered under the Bombay Public Trusts Act, 1950 (or any society registered under the Societies Registration Act, 1860) under the management of which one or more colleges or recognized institutions or other institutions are conducted and admitted to the privileges of the university;

Provided that, in relation to any college or institution established or maintained by the Central Government or the State Government or a local authority like a zillaparishad, municipal council or municipal corporation, it means, respectively, the Central Government or the State Government or Zillaparishad or the municipal council or the municipal corporation, as the case may be;
- m) "Management Council" means a council constituted as per provisions of sub-section (1) of section 27 of the Act;

- n) "Principal" means a head of a college, specialized educational institution, post-graduate centre or other recognized institution duly approved by the university;
- o) "Recognized institution" means an institution of higher learning, research or specialized studies, other than a college, and recognized to be so by the university;
- p) "State Government" means the Government of Maharashtra;
- q) "Teacher" means full-time approved professor, associate professor, assistant professor, reader, lecturer, librarian principal, deputy or assistant librarian and documentation officer in the university and college librarian, Director or instructor of physical education in any university department, conducted, affiliated or autonomous college, autonomous institution or department or recognized institution in the university;
- r) "University" means any of the universities mentioned in the Schedule of the Act;
- s) "University area" means the area specified against the name of the university in the Schedule of the Act;
- t) "University Department" means a department established and maintained by the university;
- u) "University Grants Commission" means the University Grants Commission established under the University Grants Commission Act, 1956;
- v) "university institution" means a centre, a school, or an institute established and maintained by the university'
- w) "university teacher" means a teacher appointed by the university.

4. **Scope:-** This Direction shall govern the matter of grant, renewal, and withdrawal of autonomy to the University Departments, University conducted colleges, University Institutions, affiliated colleges, institutions, and recognized institutions and all other matters incidental and ancillary thereto.

5. The norms and procedure in the matter of grant, renewal, and withdrawal of autonomy to the University departments or Institutions, Affiliated colleges and Recognized Institutions, subject to the approval of the state Government, and also all other matters incidental and ancillary thereto shall be as prescribed under **Appendix** of this Direction [guidelines for autonomous colleges issued by the University Grants Commission, New Delhi bearing bottom page-numbering from 1 to 46.]
6. The application fee and/or deposit, if any, shall be such as may be recommended by the Academic Council and approved by the Management Council of the University.
7. Notwithstanding anything to the contrary contained in Appendix, every application seeking autonomy to the University Department/Conducted college/university Institution/Affiliated college/Recognised Institution shall be placed before the Academic Council and the Management Council of the University, upon recommendations of the Board of College and University Development, for further proceeding.
8. The affiliated College/Recognized Institute/University Department / University Institution which have been granted autonomy before issuance of this Direction, will hereinafter be governed by the provisions of this Direction.
9. The existing Direction No. 4 of 1999 in respect of Direction regarding conferment of autonomous status for college/Recognised Institute/University Department/University Institution No. 4 of 1999 shall stand repealed with effect from date of issuance of this Direction

Place:- Nagpur

Date:- 8-2-2016


(Dr. Sidharthavinayak P. Kane)
Vice-Chancellor



भारत का राजपत्र The Gazette of India

असाधारण

EXTRAORDINARY

भाग III—खण्ड 4

PART III—Section 4

प्राधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

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मानव संसाधन विकास मंत्रालय

(विश्वविद्यालय अनुदान आयोग)

अधिसूचना

नई दिल्ली, 12 फरवरी, 2018

विश्वविद्यालय अनुदान आयोग (महाविद्यालयों को स्वायत्तता का दर्जा प्रदान करने तथा स्वायत्त महाविद्यालयों में मानकों के रखरखाव संबंधी उपाय) विनियम, 2018

फां. सं. 1-1/2012 (ए.सी.)—निम्नलिखित को सर्वसाधारण की जानकारी के लिए प्रकाशित किया जाता है:—

प्रस्तावना

जबकि विश्वविद्यालय अनुदान आयोग (वि०अ०आ०) को विश्वविद्यालयों में उच्चतर शिक्षा के मानकों का निर्धारण करने तथा समन्वय स्थापित करने के लिए अधिदेशित किया गया है।

और जबकि व्यापक गुणवत्तायुक्त शिक्षा तथा उत्कृष्टता के संवर्धन के लिए महाविद्यालयों को स्वायत्तता प्रदान करना अत्यावश्यक है;

इसलिए, अब विश्वविद्यालय अनुदान आयोग अधिनियम, 1956 की धारा 12 के खण्ड (ज) के साथ पठित धारा 26 की उपधारा (1) के खण्ड (च) तथा (छ) द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए विश्वविद्यालय अनुदान आयोग एतद्वारा निम्नलिखित विनियम बनाता है :-

1. लघु शीर्षक, अनुप्रयोग एवं प्रवर्तन

1.1 इन विनियमों को विश्वविद्यालय अनुदान आयोग (महाविद्यालयों को स्वायत्तता का दर्जा प्रदान करने तथा स्वायत्त महाविद्यालयों में मानकों के रखरखाव संबंधी उपाय) विनियम, 2018 कहा जायेगा।

1.2 ये विनियम उन सभी महाविद्यालयों/संस्थानों पर लागू होंगे जो देश के विश्वविद्यालयों से संबद्ध हैं अथवा उनके संघटक महाविद्यालय हैं, तथा जो स्वायत्त महाविद्यालय का दर्जा प्राप्त करना चाहते हैं।

- (ख) एक व्यक्ति जो दो वर्ष की अवधि के लिए महाविद्यालय की शासी निकाय द्वारा नामित किया जाना है।
 (ग) सम्बद्ध विश्वविद्यालय का वित्त अधिकारी।
 (घ) महाविद्यालय का वरिष्ठतम् अध्यापक जिसे प्राचार्य द्वारा दो साल के लिए क्रमावर्ती रूप से नामित किया जाना है।

अवधि:— वित्त समिति की अवधि तीन वर्ष होगी।

बैठक:— वित्त समिति की एक साल में कम से कम दो बैठकें होगी।

वित्त समिति के क्रियाकलाप :

वित्त समिति शासी निकाय के लिए परामर्श समिति के रूप में निम्न कार्य करेगी।

- (क) विश्वविद्यालय अनुदान आयोग द्वारा प्राप्त/प्राप्य अनुदान से संबंधित बजट प्राक्कलन तथा शुल्क आदि से प्राप्त आय जो स्वायत्त योजना की गतिविधियों के संचालन के लिए वसूल की गई है।
 (ख) उपरोक्त के लिए लेखा-परीक्षित खाते संबंधी।

14. विनियमों के उल्लंघन के परिणाम

- 14.1** विश्वविद्यालय अनुदान आयोग के सभी दिशा-निर्देशों का कड़ाई से पालन किया जाना चाहिए, उल्लंघन करने पर दोषी स्वायत्त महाविद्यालय के विरुद्ध विश्वविद्यालय अनुदान आयोग समुचित कार्यवाही करेगा।

15. समस्या समाधान:

- 15.1** भारत सरकार/मानव संसाधन विकास मंत्रालय के परामर्श से विश्वविद्यालय अनुदान आयोग इन विनियमों के कार्यान्वयन में आने वाली समस्या/ओं के समाधान हेतु पूर्णरूपेण अधिकृत है।

पी. के. ठाकुर, सचिव
 [विज्ञापन—III/4/असा./428/17]

MINISTRY OF HUMAN RESOURCE DEVELOPMENT

(UNIVERSITY GRANTS COMMISSION)

NOTIFICATION

New Delhi, the 12th February, 2018

University Grants Commission (Conferment of Autonomous Status Upon Colleges and Measures for Maintenance of Standards in Autonomous Colleges) Regulations, 2018

F. No. 1-1/2012(AC).—The following is published for general information:—

Preamble

Whereas the University Grants Commission (UGC) is mandated to coordinate and determine the standards of higher education in universities;

And whereas college autonomy is instrumental for promoting broad based quality education and excellence;

Now therefore, in exercise of the powers conferred by clause (j) of Section 12 read with clauses (f) and (g) of sub-section (1) of Section 26 of the University Grants Commission Act, 1956, the University Grants Commission hereby makes the following Regulations:—

1. Short title, application and commencement:—

1.1 These Regulations shall be called the University Grants Commission (Conferment of Autonomous Status upon Colleges and Measures for Maintenance of Standards in Autonomous Colleges) Regulations, 2018.

1.2 These Regulations shall apply to all Colleges/Institutions which are affiliated to, or are constituent colleges of Universities in the country seeking the conferment of Autonomous College status.

1.3 These Regulations shall come into force from the date of their notification in the Official Gazette.

2. Definitions: -

In these Regulations, unless the context otherwise requires—

2.1 “Academic Council” means the Academic Council of the Autonomous College

2.2 “Act” means the University Grants Commission Act, 1956

2.3 “Board of Studies” means the Board of Studies of a Department of the Autonomous College

2.4 “College” means any institution, whether known as such or by any other name, which provides for undergraduate and/or postgraduate and/or Ph.D. programmes for obtaining any qualification from a university and which, in accordance with the rules and regulations of such university, is recognized as competent to provide for such programmes/courses of study and present students undergoing such courses of study for the examination for the award of such qualification

2.5 “Commission” means the University Grants Commission (UGC)

2.6 “Finance Committee” means the Finance Committee of the Autonomous College

2.7 “Governing Body” means the Governing Body of the Autonomous College, which is different from the Trust Board or the Board of Management or the Executive Committee or the Management Committee

2.8 “Notification” means a notification issued by the affiliating University declaring a college as an autonomous one after the conferment of autonomous status by the UGC

2.9 “Parent University” means the University to which the college concerned is affiliated, or of which the college concerned is a constituent

2.10 “Statutory body” means a body constituted under any law for the time being in force for determining and maintaining prescribed standards of quality in the relevant areas of higher education

3. ROLE/TERMS AND CONDITIONS OF AN AUTONOMOUS COLLEGE

3.1 Review existing courses/programmes and, restructure, redesign and prescribe its own courses/programmes of study and syllabi

3.2 To formulate new courses/programmes within the nomenclature specified by UGC as per the Specification of Degrees 2014 and amended from time to time

3.3 Evolve methods of assessment of students performance, conduct of examinations and notification of results

3.4 To announce results, issue mark sheets, migration and other certificates; however, the degree shall be awarded by the University with the name of the college on the degree certificate

3.5 Autonomous colleges need not pay affiliation fee to the parent university every year. One time fee can be paid at the time of conferment of autonomous status. Such fees can be decided by the Executive council of the parent university

3.6 Prescribe rules for admission in consonance with the reservation policy of the state government/national policy

3.7 May fix fees of the courses at their own level

3.8 Constitute their own Governing Body, Academic Council, Board of Studies and Finance Committee

3.9 They shall have complete administrative autonomy and have the privilege of appointing their own Administrative staff and teaching faculty including Principal. However, the staff will be appointed as per the UGC (Minimum Qualifications for Appointment of Teachers and other Academic Staff in Universities and Colleges and Measures for the Maintenance of Standards in Higher Education) Regulations 2010 as amended from time to time

3.10 The autonomous colleges shall continue to receive funds as being done before the grant of autonomous status, if any

3.11 Autonomy granted to the college is at the institutional level and is not partial, and shall cover the programmes at all levels such as U.G., P.G. and Ph.D offered by the college. The courses introduced by the college after the conferment of autonomous status shall automatically come under the purview of autonomy

3.12 The students enrolled at the time of granting autonomy to the College shall also be covered under autonomy

3.13 Autonomous status shall be granted initially for a period of ten years; further extension shall be for five years at a time except those covered under clause 6.5

4. ROLE OF THE PARENT UNIVERSITY

4.1 To forward the application of the college for autonomous status/provide nominee on the Expert Committee/various Statutory Bodies and issue notification within 30 days for a college to function as an autonomous entity once autonomous status is conferred on the college

4.2 If the University does not forward the proposal/provide nominee within 30 days, it shall be presumed that the University has no objection to the processing of the proposal by the UGC for conferment of autonomous status

4.3 The college on attaining autonomous status will continue to be affiliated to the affiliating University but will enjoy the privileges of autonomy

5. ROLE OF THE STATE GOVERNMENT

5.1 To provide nominee on the Expert Committee/various Statutory Bodies within 30 days

5.2 The State Govt. will continue to provide the same funds to Government/Aided colleges as they had been providing before the conferment of autonomous status

5.3 To ensure that all sanctioned faculty positions are filled on regular and ongoing basis and that a minimum of 85% posts remain filled at all time

6. ELIGIBILITY

6.1 Colleges (of any discipline) whether aided, partially aided and unaided/self financing are eligible provided they are under Section 2(f) of the UGC Act

6.2 The college should have at least 10 years of existence

6.3 The colleges must be accredited by either NAAC with minimum 'A' Grade or by NBA for at least three programme(s) with a minimum score of 675 individually or a corresponding accreditation Grade/score from a UGC empanelled accreditation agency. However, if the number of programme(s) being run by the Institution is less than three, then each of the programmes should secure 675 or more marks. Accreditation status must be valid at the time of application.

Provided further, the existing autonomous colleges will be required to comply with this eligibility condition within a maximum period of five years from the date of notification of these Regulations.

The constituent colleges shall also undergo separate accreditation by NAAC/NBA/UGC empanelled accreditation agency to be considered eligible.

6.4 (i) Colleges accredited with a score of 3.0 and above, up to 3.25 on a 4 point scale of NAAC/corresponding NBA score / corresponding accreditation score from a UGC empanelled accreditation agency at the time of application shall be considered for grant of autonomous status with an on-site visit of the duly constituted Expert Committee.

(ii) Colleges which have a NAAC score of 3.26 and above, up to 3.50 or a corresponding NBA score or a corresponding accreditation Grade/score from a UGC empanelled accreditation agency for one complete cycle and also accredited accordingly in the second cycle, shall be considered for grant of autonomous status without onsite visit by the Expert Committee.

(iii) Colleges with 3.51 and above in a 4 point scale of NAAC or a minimum of three programmes have been accredited by NBA with a minimum score of 750 individually or a corresponding accreditation Grade/score from a UGC empanelled accreditation agency at the time of application shall be considered for grant of autonomous status without onsite visit by the Expert Committee.

However, the colleges are required to adhere to University Grants Commission's Regulations like (a) curbing the menace of ragging in Higher Education Institutions Regulations 2012; (b) UGC (Promotion of Equity in Higher Educational Institutions) Regulations 2012; (c) UGC (Grievance Redressal) Regulations 2012, etc. in letter and spirit.

The application of colleges covered under 6.4 (ii) and (iii) above shall be considered as the report of the Expert Committee for consideration of the Commission and its approval thereof.

6.5 If an autonomous college has obtained the score of 3.51 and above on a 4-Point scale from NAAC or a minimum of three programmes have been accredited by NBA with a minimum score of 750 individually or a corresponding accreditation Grade/score from a UGC empanelled accreditation agency, the college shall be granted extension of autonomous status for further ten years without on-site visit.

(Colleges which apply for reaccreditation within the stipulated six months before the end of the cycle of accreditation period as mentioned in the Accreditation Certificate issued by National Assessment and Accreditation Council/NBA/UGC empanelled accreditation agency, the gap period between two consecutive accreditations shall be condoned. In case of other institutions which have not applied as per the guidelines mentioned above, the maximum period for condonation would be one year between the two accreditation cycles)

7. CONFERMENT/EXTENSION OF AUTONOMOUS STATUS

7.1 A College intending to become autonomous shall make an application in the format specified by the Commission any time during the year

7.2 The college shall forward an advance copy of the proposal to University Grants Commission indicating the date of receipt of the proposal by the parent university for the record of the UGC

7.3 The College shall submit the proposal to the Parent/Affiliating University which may forward the same to UGC within 30 days of the receipt of proposal. In case the proposal is rejected by the University, the decision shall be communicated to the college and University Grants Commission through a "Speaking Order"

7.4 If the University and State Govt. fail to provide the nominees for the UGC Expert Committee, the UGC may proceed with the on-spot visit and take decision on the proposal of the College

7.5 If the College is found eligible as per the guidelines, the Commission shall examine the proposal for conferment/extension of autonomous status with an onsite visit by an Expert Committee constituted by the Chairman of the Commission consisting of three expert members (preferably at the level of Professor/Principal of an autonomous college) out of which one shall be the Chairperson, nominees from the Parent/Affiliating University and the State Government. A UGC official may be nominated to coordinate the visit.

7.6 The decision for conferment /extension of autonomous status shall be taken by the Standing Committee (comprising of three Commission members) on autonomous colleges after due consideration of the recommendations of the Expert Committee. The approval letters may be issued on the basis of the decision of the standing committee. The decisions may be ratified by the Commission subsequently

7.7 If the proposal of a College for the conferment of autonomous status is rejected for any reason whatsoever, the college shall be eligible to reapply, but not before one year from the date of rejection of its earlier proposal

7.8 The autonomous College shall apply in the prescribed format to University Grants Commission for extension of autonomous status six months prior to expiry of the autonomy cycle

7.9 In case of expiry of accreditation cycle, the College seeking extension of autonomous status must submit a proof of having applied for accreditation by NAAC/NBA to be eligible for extension

7.10 Till the extension of autonomous status is awarded by the UGC, the College shall continue to avail the autonomous status. The UGC shall also consider the interim period while granting extension of autonomous status to the College

7.11 If an Autonomous College wishes to surrender the autonomous status, it shall follow due process of forwarding the resolution by the Governing Body through the University concerned to UGC for consideration. However, such withdrawal shall take effect only after the last batch of students then enrolled under autonomy passes out

8. CRITERIA FOR GRANTING AUTONOMY TO COLLEGES

- 8.1** Academic reputation and previous performance in university examinations and its academic/co-curricular/extension activities in the past
- 8.2** Academic/extension / research achievements of the faculty
- 8.3** Quality and merit in the selection of students and teachers, subject to statutory requirements in this regard
- 8.4** Adequacy of infrastructure in terms of class rooms, library books and e-resources, laboratories and equipments, sports facilities, facilities for recreation activities, residential accommodation for faculty and students, transport facilities etc.
- 8.5** Quality of institutional management
- 8.6** Financial strength of the institution
- 8.7** Responsiveness of administrative structure
- 8.8** Motivation and involvement of faculty in the promotion of innovative reforms

09. MONITORING OF AUTONOMOUS COLLEGES

- 9.1** IQAC cell shall be established in the college for regular monitoring of the college under intimation to UGC. The Cell shall have an external Peer Team comprising of academicians of repute and will send report to UGC regarding the performance of the College. The report shall also be put on public domain on the website of the College. The external peer review shall be conducted atleast once in a year.
- 9.2** On receipt of adverse report by the external peer team of IQAC or in case of complaint, UGC has the power to constitute its own Expert Committee for careful scrutiny of the report and may revoke the autonomous status of the college after giving due opportunity to the management by way of notification and by passing a speaking order.
- 9.3** The autonomous college shall, without fail, upload on its website information regarding the courses offered by it, the fees for the courses, the details of the faculty alongwith qualification and unique ID, the admission procedure, the details of relevant infrastructures, research activities of the college along with the details of Ph.D. students enrolled, if any, with the date of enrolment, topics and supervisor.
- 9.4** The college shall also put on its website the creation of various Committees/Cells as mandated in the various UGC Regulations notified from time to time. The college shall conduct the meetings of the statutory bodies regularly and upload the minutes of the meetings on the college website.
- 9.5** The college shall upload on its website all the information about the college in the prescribed format and the same shall be sent to UGC while applying for fresh/extension of autonomous status. The college shall also submit progress report and utilization certificate annually as per the prescribed formats.
- 9.6** All the Regulations notified by the UGC shall be followed in letter and spirit by all the Autonomous Colleges and an undertaking to this effect shall be uploaded on the College website.
- 9.7** The number of contractual faculty in an autonomous college should not be more than 10% of the total number of sanctioned faculty positions in the college.

10. MATTERS REGARDING STARTING OF NEW COURSES

- 10.1** An autonomous college is free to start diploma (undergraduate and postgraduate) or certificate courses without prior approval of the University. However, approval of the concerned statutory bodies of the college may be obtained, wherever required. Diplomas and certificates shall be issued under the seal of the college. The University should, however, be informed about such introduction of new courses.
- 10.2** An autonomous college is free to start a new degree or postgraduate course/Ph.D. with the approval of the Academic Council of the college and concerned Statutory Council(s), wherever required, provided the nomenclature of the degree is in consonance with UGC Notification on Specification of Degrees, 2014 as amended from time to time.

Such courses shall fulfill the minimum standards prescribed by the university/UGC in terms of number of hours, curricular content and standards, and the university shall be duly informed of such courses.

10.3 An autonomous college may rename an existing course as per the UGC Notification on Specification of Degrees, 2014 as amended from time to time after restructuring/ redesigning it with the approval of the college Academic Council as per UGC norms. The university should be duly informed of such proceedings.

11. EXAMINATION CELL & SYSTEM

11.1 Autonomous College shall have an Examination Cell headed by Controller of Examinations. The Principal of the college shall be the Chief Controller, Examinations.

11.2 The Controller of Examinations shall be assisted by the Deputy Controller of Examinations along with other office support.

12. FINANCIAL ASSISTANCE

12.1 The Commission shall provide financial assistance to autonomous colleges as per the extant provisions of the scheme guidelines (prescribed separately). However, self-financing colleges shall not be provided autonomy grant. In matters related to utilization of autonomy grant and maintaining the accounts, the college shall remain guided by the scheme guidelines.

13. GOVERNANCE OF AN AUTONOMOUS COLLEGE

13.1 The autonomous college shall have the following statutory bodies to ensure proper management of academic, financial and general administrative affairs:

- (a) Governing Body
- (b) Academic Council
- (c) Board of Studies
- (d) Finance Committee

(The Governing Body is different from Trust Board/Board of Management/Executive Committee/Management Committee).

13.2 The College shall, in addition, have other non statutory committees such as the Planning and Evaluation Committee, Grievance Redressal Committee, Examination Committee, Admission Committee, Library Committee, Student Welfare Committee, Internal Complaints Committee, Extra-Curricular Activities Committee and Academic Audit Committee.

13.3 GOVERNING BODY:

A. Constitution of Governing Body of Private /Self Financing College/Constituent College run by Trust/Society

Number	Category	Nature
5 Members	Management	Trust or management as per the constitution or byelaws, with the Chairman or President/Director as the chairperson
2 Members	Teachers of the College	Nominated by the Principal based on seniority by rotation
1 Member	Educationist or industrialist	Nominated by the management
1 Member	UGC Nominee	Nominated by the UGC
1 Member	State Government nominee	Academician not below the rank of professor or State Government official of Directorate of Higher Education/State Council of Higher Education
1 Member	University Nominee	Nominated by the University
1 Member	Principal of College	Ex-Officio

B. Constitution of Governing Body of Government Colleges

Number	Category	Nature
3 Members one of them to be Chairperson	Educationist, Industrialist, Professional	Nominated by the State Government, persons of proven academic interest with at least PG level qualification
2 Members	Teachers of the College	Nominated by the Principal on seniority by rotation.
1 Member	Educationist or industrialist	Nominated by the Principal for two years
1 Member	UGC Nominee	Nominated by UGC
1 Member	State Government nominee	Nominated by the State Government
1 Member	University Professor	Nominated by the University
1 Member	Principal of College	Ex-Officio

C. Constitution of Governing Body of Constituent Colleges run by University

Number	Category	Nature
3 Members one of them to be Chairperson	Educationist, Industrialist, Professional	Nominated by the University, persons of proven academic interest with at least PG level qualification
2 Members	Teachers of the College	Nominated by the Principal on seniority by rotation.
1 Member	State Government nominee	Nominated by the State Government
1 Member	University Professor	Nominated by the University
1 Member	UGC Nominee	Nominated by UGC
1 Member	Principal of College	Ex-Officio

Term: The Governing Body shall be reconstituted every three years except in the case of UGC nominee who shall have a term of five years.

Meetings: Meetings of the Governing Body shall be held at least twice a year.

Functions of the Governing Body:

Subject to the existing provision in the bye-laws of respective college and rules laid down by the state government/parent university, the Governing Body shall:

- Guide the college while fulfilling the objectives for which the college has been granted autonomous status.
- Institute scholarships, fellowships, studentships, medals, prizes and certificates on the recommendations of the Academic Council
- Approve new programmes of study leading to degrees and/or diplomas.
- All recruitments of Teaching Faculty/Principal shall be made by the Governing Body/state government as applicable in accordance with the policies laid down by the UGC and State Government from time to time.
- To approve annual budget of the college before submitting the same at the UGC.
- Perform such other functions and institute committees, as may be necessary and deemed fit for the proper development of the college

13.4 ACADEMIC COUNCIL:**COMPOSITON OF ACADEMIC COUNCIL:**

1. The Principal (Chairman)
2. All the Heads of Departments in the college
3. Four teachers of the college representing different categories of teaching staff by rotation on the basis of seniority of service in the college.
4. Not less than four experts/academicians from outside the college representing such areas as Industry, Commerce, Law, Education, Medicine, Engineering, Sciences etc., to be nominated by the Governing Body.
5. Three nominees of the university not less than Professors.
6. A faculty member nominated by the Principal (Member Secretary).

Term: The term of the nominated members shall be three years.

Meetings: Academic Council shall meet at least twice a year.

Functions of the Academic Council:

The Academic Council shall have powers to:

- (a) Scrutinize and approve the proposals with or without modification of the Boards of Studies with regard to courses of study, academic regulations, curricula, syllabi and modifications thereof, instructional and evaluation arrangements, methods, procedures relevant thereto etc., provided that where the Academic Council differs on any proposal, it shall have the right to return the matter for reconsideration to the Board of Studies concerned or reject it, after giving reasons to do so.
- (b) Make regulations regarding the admission of students to different programmes of study in the college keeping in view the policy of the Government.
- (c) Make regulations for sports, extra-curricular activities, and proper maintenance and functioning of the playgrounds and hostels.
- (d) Recommend to the Governing Body proposals for institution of new programmes of study.
- (e) Recommend to the Governing Body institution of scholarships, studentships, fellowships, prizes and medals, and to frame regulations for the award of the same.
- (f) Advise the Governing Body on suggestions(s) pertaining to academic affairs made by it.
- (g) Perform such other functions as may be assigned by the Governing Body.

13.5 BOARD OF STUDIES:

Composition of Board of Studies:

1. Head of the Department concerned (Chairman).
2. The entire faculty of each specialization.
3. Two subject experts from outside the Parent University to be nominated by the Academic Council.
4. One expert to be nominated by the Vice-Chancellor from a panel of six recommended by the college principal.
5. One representative from industry/corporate sector/allied area relating to placement.
6. One postgraduate meritorious alumnus to be nominated by the principal. The Chairman, Board of Studies, may with the approval of the principal of the college, co-opt:
 - (a) Experts from outside the college whenever special courses of studies are to be formulated.
 - (b) Other members of staff of the same faculty.

Term: The term of the nominated members shall be three years.

Meetings: The Board of Studies shall meet at least twice a year.

Functions:

The Board of Studies of a Department in the college shall:

- (a) Prepare syllabi for various courses keeping in view the objectives of the college, interest of the stakeholders and national requirement for consideration and approval of the Academic Council;

- (b) Suggest methodologies for innovative teaching and evaluation techniques;
- (c) Suggest panel of names to the Academic Council for appointment of examiners; and
- (d) Coordinate research, teaching, extension and other academic activities in the department/college.

13.6 FINANCE COMMITTEE:

Composition of Finance Committee:

- (a) The Principal (Chairman).
- (b) One person to be nominated by the Governing Body of the college for a period of two years.
- (c) Finance Officer of the affiliating University
- (d) One senior-most teacher of the college to be nominated in rotation by the principal for two years.

Term: Term of the Finance Committee shall be three years.

Meetings: The Finance Committee shall meet at least twice a year

Functions of the Finance Committee:

The Finance Committee shall act as an advisory body to the Governing Body, to consider:

- (a) Budget estimates relating to the grant received/receivable from UGC, and income from fees, etc. collected for the activities to undertake the scheme of autonomy; and
- (b) Audited accounts for the above.

14. CONSEQUENCES OF VOILATION OF REGULATIONS

14.1 All UGC directives shall be strictly followed, failing which UGC may take appropriate actions, as it deems fit, against the defaulting Autonomous College.

15. REMOVAL OF DIFFICULTIES

15.1 University Grants Commission reserves the right to remove difficulty/difficulties in the course of implementation of these Regulations in consultation with the Government of India/Ministry of Human Resource Development.

P. K. THAKUR, Secy.

[ADVT.-III/4/Exty./428/17]



रश्मन्त तुकडोजी

डॉ. मंजू सिंह
संयुक्त सचिव

Dr. Manju Singh
Joint Secretary



विश्वविद्यालय अनुदान आयोग
University Grants Commission

(मानव संसाधन विकास विभाग, भारत सरकार)
(Ministry of Human Resource Development, Govt. of India)

बहादुरशाह जफर मार्ग, नई दिल्ली-110002
Bahadur Shah Zafar Marg, New Delhi-110002

दूरभाष Phone : कार्यालय Off : 011-23238876
Fax : 011-23232297 E-mail : manjusingh.ugc@nic.in

BY SPEED POST

No.F. 22-1/2016(AC)

March, 2016

The Registrar,
Rashtrasant Tukadoji Maharaj Nagpur University,
Ravindranath Tagore Marg,
Nagpur-440 001 (Maharashtra)

9 MAR 2016

Sub:- Grant of Extension of Autonomous Status to Yeshwantarao Chavan College of Engineering, Wanadongri, Hingna Road, Nagpur-441 110 (Maharashtra) affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

Sir/Madam,

This is with reference to the proposal submitted by your college for extension of autonomous status.

On the basis of the report of the UGC Expert Committee and on the basis of the recommendations of the Standing Committee, the Commission at its meeting held on 29.02.2016 decided to grant extension of autonomous status to Yeshwantarao Chavan College of Engineering, Wanadongri, Hingna Road, Nagpur-441 110 (Maharashtra) affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur under the UGC scheme for autonomous colleges for a period of six years w.e.f. 2016-2017 to 2021-2022

Rashtrasant Tukadoji Maharaj Nagpur University, Ravindranath Tagore Marg, Nagpur-440 001 (Maharashtra) may now go ahead and issue necessary orders in this regard by endorsing a copy of the same to this office for our records. The admissible grant under this scheme will be released to the College as per its eligibility, according to the norms as laid down as per applicable Guidelines for Autonomous Colleges by The Joint Secretary, University Grants Commission, Western Regional Office, Ganeshkhind, Pune - 411007.

Yours faithfully

(MANJU SINGH)

Cont....

RECEIVED
Y. C. C. E., NAGPUR
INWARD NO 2394
DATE 12.03.16
Signature

14.03.16
Principal
12/03/2016
Administrative Officer
Registrar, DAM

Copy to:-

1. The Principal Secretary,
Tech & Higher Education Deptt.
Govt. of Maharashtra,
Mantralaya Annexe Building,
Mumbai - 400 032.

2. The Joint Secretary,
University Grants Commission,
Western Regional Office, Ganeshkhind,
Pune - 411007.

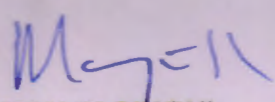
3. The Principal,
Yeshwantarao Chavan College of Engineering,
Wanadongri, Hingna Road,
Nagpur-441 110 (Maharashtra)

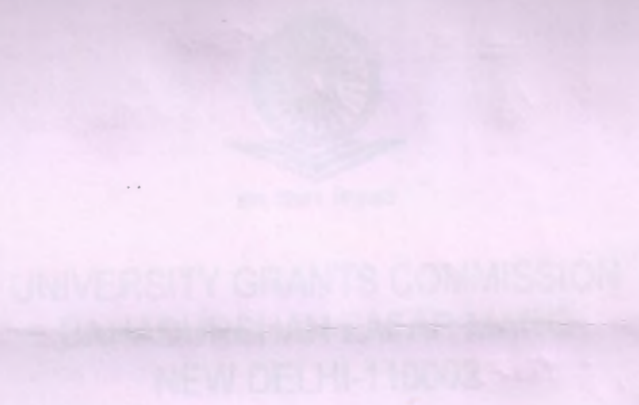
(A copy of the Expert Committee report is also enclosed for your information and guidance).

4. Meeting Cell.

5. Concerned file

6. Guard File.


(MANJU SINGH)



**Implementation of CBCS / Electives by
the institution for 2022-23**

List of Electives approved by the competent body for the Year 2022-23

OE/PE	CSE	CT	CV	EE	EL	ET	IT	ME	Grand Total
OE-I	3	5	6	3	4	4	3	4	32
OE-II	3	5	5	3	3	5	3	4	31
OE-III	3	5	6	3	4	4	3	4	32
OE-IV	3	5	5	3	3	5	3	4	31
PE-I	8	14	20	8	6	12	8	26	102
PE-II	6	10	11	8	5	12	8	8	68
PE-III	4	5	9	4	4	5	4	14	49
PE-IV	8	14	10	8	5	5	8	10	68
PE-V	4	6	10	4		5	5	9	43
PE-VI				5		6	4		15
Grand Total	42	69	82	49	34	63	49	83	471

Civil Engineering



Nagar Yuwak Shikshan Sanstha's
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DEPARTMENT OF CIVIL ENGINEERING

NOTICE {BoS}

Date:- 5th August 2022

Meeting No 30 of Board of Studies of Civil Engineering Department is scheduled on **Thursday, 11th August 2022 at 11:00 am in Departmental Library.**

All staff members are requested to attend the meeting. The agenda of the meeting is mentioned below. All staff members are requested to read the agenda carefully so that they can give fruitful suggestions in the meeting.

Agenda Points

Item No. 30.01

Welcome of new members

Item No. 30.02

Installation of member Secretary

Item No. 30.03

Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.

Item No. 30.04

To discuss and suggest the action taken on

- Co/Po attainment of subjects taught in previous semester
- Result analysis of subjects taught in previous semester
- Stake holders' feedback on review and design of curriculum
- In Sem, End Sem and Exit feedback on Teaching Lear & curriculum

Item No. 30.05

To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2018 & B.Tech 2020) of the Undergraduate and Post graduate programs conducted under the Board.

To approve and ratify SoE22 and all syllabi of B.Tech and M.Tech I & II year .

Item No. 30.06

To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2018 & B.Tech.2020 Schemes of Undergraduate and Post graduate programs conducted under the Board.

Item No. 30.07

To discuss and suggest the changes in the books/Reference Books/Literature Sources published in the syllabi of courses in various Schemes of undergraduate and Postgraduate Programs.

Item No. 30.08

To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under-Graduate and Post Graduate programs.

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DEPARTMENT OF CIVIL ENGINEERING

Item No. 30.09

To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board.

Item No. 30.10

To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.

Item No. 30.11

To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Odd Term 2022-23.

Item No. 30.12

To prepare and propose the panel of paper setters, Moderators and Valuers for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Odd Term 2022-23.

Item No. 30.13

To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination Odd 2022-23.

Item No. 30.14

Preparation of Electronic question Bank UG courses according to SoE 2018
To review solutions to all questions of Electronic Question Banks for all courses

Item No. 30.15


To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses.

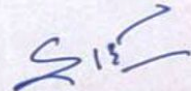
Item No. 30.16

To discuss and propose scheme for Minor an Honor course and its syllabus.
To Discuss and propose Certificate courses and value-added courses in 2022-23.

Item No. 30.17

Any other matter with the permission of the Chair.


Prof. Ms. Charuta S. Waghmare
BoS Member Secretary
Department of Civil Engineering


Dr.S.P.Raut
Head and Chairman
Department of Civil Engineering

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DEPARTMENT OF CIVIL ENGINEERING

NOTICE {BoS}

Date:- 5th August 2022

30th Meeting of Board of Studies(Thursday 11/08/2022)

BoS Members

S.N.	Name	Signature	S.N.	Name	Signature
1	Dr. Udaykumar P. Waghe	----	20	Ms. Sangita Shivcharan Meshram	
2	Dr. Santanu Ramkrishna Khandeshwar		21	Dr. Prashant Baban Pande	
3	Dr. Sudhir Vasantrao Ambekar		22	Mr. Atul Sambhuji Kurzekar	
4	Dr. Abhay Vinayakrao Patil		23	Mr. Vivek Dnyandeo Jayale	
5	Dr. Vilas Ganuji Meshram		24	Mr. Harshal Madhukar Warade	
6	Dr. Ajay Ramdas Gajbhiye		25	Ms. Pallavi Shaligram Chakole	
7	Dr. Rajendra Rupraoji Dighade		26	Ms. Snehal Karunkumar Kamble	
8	Mr.Devendra Rajram Raut		27	Mr. Sanket Gajanan Kalamkar	
9	Mr. Bhupesh Purshottam Nandurkar		29	Mr. Sagar Wasudeo Dhengare	
10	Dr. Ms. Madhuri S. Bhagat		29	Ms. Monali Rewashankar Wagh	
11	Dr. Sanjay Padmakar Raut		30	Mr. Yogesh Prabhakar Kherde	
12	Mrs. Vaishali Nilesh Mendhe		31	Ms. Sneha Gowardhan Hirekhan	
13	Ms. Charuta Subhash Waghmare		32	Mr. Rajesh Madhukar Bhagat	
14	Mr. Khalid Shamim Ansari		33	Dr. Mrs. Boskey V. Bahoria	
15	Mr. Harshal Ramesh Rao Nikhade		34	Mr. Anukhsh Naresh Asati	
16	Mr. Jayant Manohar Raut		35	Mr. Uday Singh Patil	
17	Mr. Dhiraj Giridharilal Agrawal				
18	Mr. Pawan Kesharao Hinge				
19	Ms. Amruta Arun Yadav				

BoS Experts

Name	Signature	Name	Signature	Name	Signature
Dr.A.D.Ghare		Dr. M.Madurwar		Dr.M.D.Goel	
Er.Jagdish Lanjewar		Prof.S.N.Harinkhede			



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DEPARTMENT OF CIVIL ENGINEERING

**ATTENDANCE
{BoS}**

Date:- 11th August 2022

30th Meeting of Board of Studies

BoS Members

S.N.	Name	Signature	S.N.	Name	Signature
1	Dr. Udaykumar P. Waghe	-----	20	Ms. Sangita Shivcharan Meshram	
2	Dr. Santanu Ramkrishna Khandeshwar		21	Dr. Prashant Baban Pande	
3	Dr. Sudhir Vasanttrao Ambekar		22	Mr. Atul Sambhuji Kurzekar	
4	Dr. Abhay Vinayakrao Patil		23	Mr. Vivek Dnyandeo Jayale	
5	Dr. Vilas Ganuji Meshram		24	Mr. Harshal Madhukar Warade	
6	Dr. Ajay Ramdas Gajbhiye		25	Ms. Pallavi Shalikram Chakole	
7	Dr. Rajendra Rupraoji Dighade		26	Ms. Snehal Karunkumar Kamble	
8	Mr. Devendra Rajram Raut	-	27	Mr. Sanket Gajanan Kalamkar	
9	Mr. Bhupesh Purshottam Nandurkar		29	Mr. Sagar Wasudeo Dhengare	
10	Dr. Ms. Madhuri S. Bhagat		29	Ms. Monali Rewashankar Wagh	
11	Dr. Sanjay Padmakar Raut		30	Mr. Yogesh Prabhakar Kherde	
12	Mrs. Vaishali Nilesh Mendhe		31	Ms. Sneha Gowardhan Hirekhan	
13	Ms. Charuta Subhash Waghmare		32	Mr. Rajesh Madhukar Bhagat	
14	Mr. Khalid Shamim Ansari		33	Dr. Mrs. Boskey V. Bahoria	
15	Mr. Harshal Ramesh Rao Nikhade		34	Mr. Anukhsh Naresh Asati	
16	Mr. Jayant Manohar Raut		35	Mr. Uday Singh Patil	
17	Mr. Dhiraj Giridharilal Agrawal				
18	Mr. Pawan Kesharao Hinge				
19	Ms. Amruta Arun Yadav				

BoS Experts

Name	Signature	Name	Signature	Name	Signature
Dr. A.D. Ghare	 11.8.2022	Dr. M. Madurwar		Dr. M.D. Goel	 11/08/2022
Er. Jagdish Lanjewar		Prof. S.N. Harinkhede			



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DEPARTMENT OF CIVIL ENGINEERING

Minutes of 30th BoS Meeting dated on Thursday 11th August 2022

30th Meeting of BoS of Civil Engineering was held on Thursday 11th August 2022.

It was chaired by Dr.S.P.Raut, Chairman BoS. Following members were present.

S.N.	Name	S.N.	Name
1	Dr.A.D.Ghare	20	Mr. Dhiraj Giridharilal Agrawal
2	Dr.M.V.Madurwar	21	Mr. Pawan Kesharao Hinge
3	Dr.M.D.Goel	22	Ms. Amruta Arun Yadav
4	Prof.S.N.Harinkhede	23	Ms. Sangita Shivcharan Meshram
5	Dr. Udaykumar P. Waghe	24	Dr. Prashant Baban Pande
6	Dr. Sudhir Vasantao Ambekar	25	Mr. Atul Sambhuji Kurzekar
7	Dr. Abhay Vinayakrao Patil	26	Mr. Vivek Dnyandeo Jayale
8	Dr. Vilas Ganuji Meshram	27	Mr. Harshal Madhukar Warade
9	Dr. Ajay Ramdas Gajbhiye	29	Ms. Pallavi Shalikram Chakole
10	Dr. Rajendra Rupraoji Dighade	29	Ms. Snehal Karunkumar Kamble
11	Mr.Devendra Rajram Raut	30	Mr. Sanket Gajanan Kalamkar
12	Mr. Bhupesh Purshottam Nandurkar	31	Mr. Sagar Wasudeo Dhengare
13	Dr. Ms. Madhuri S. Bhagat	32	Mr. Yogesh Prabhakar Kherde
14	Dr. Sanjay Padmakar Raut	33	Ms. Sneha Gowardhan Hirekhan
15	Mrs. Vaishali Nilesh Mendhe	34	Mr. Rajesh Madhukar Bhagat
16	Ms. Charuta Subhash Waghmare	35	Dr. Mrs. Boskey V. Bahoria
17	Mr. Khalid Shamim Ansari	36	Mr. Anuksh Naresh Asati
18	Mr. Harshal Rameshrao Nikhade	37	Mr. Uday Singh Patil
19	Mr. Jayant Manohar Raut		

Following members has been permitted leave of absence

1.Dr. Shantanu Ramkrishna Khandeshwar

2. Ms. Monali Rewashankar Wagh

3.Er. Jagdish Lanjewar



Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering

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DEPARTMENT OF CIVIL ENGINEERING

Minutes of Meetings 30th BoS Meeting

Agenda No. 30.01

Welcome of new members

Dr S. P. Raut welcomed all BoS experts viz., Dr. A. D. Ghare Professor, Department of Civil Engineering, VNIT, Nagpur, Dr. M. V. Madurwar, Associate Professor, Department of Civil Engineering, VNIT, Nagpur, Dr. M. D. Goel, Associate Professor, Department of Applied Mechanics, VNIT, Nagpur, Prof. S. N. Harinkhede, Alumni and Assistant Professor, SBJITMR, Nagpur. Departmental BoS members has also been welcomed by the Chairman.

Agenda No. 30.02

Installation of member Secretary

It has been decided to retain Ms. Charuta S. Waghmare as Member secretary BoS for the session 2022-23.

Agenda No. 30.03

Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.

The minutes of previous meeting no.29 held on Saturday 8th January 2022 were already circulated to all members. The ATR of previous meeting have been discussed with BoS members. (Annexure 1). After confirmation, Chairman asked to accept the minutes of meeting. Dr. Madhuri Bhagat accepted the minutes. Prof. Sangita Meshram seconded it. The minutes were then accepted.

Agenda No. 30.04

To discuss and suggest the action taken on -

- Co/Po attainment of subjects taught in previous semester.

The complete process of CO/PO attainment has been discussed with the BoS Experts. The experts appreciated and approved the process of attainment. On the basis of direct and indirect assessment, it is observed that all PO's and PSO's meet the attainment expectations. Therefore, no action is requiring to be taken. However, efforts will be taken to maintain this attainment in future.

1.(REMAEKS ARE NEEDED ALONGWITH ACTION TAKEN)

Sr. No.	Sem	Course Name	Course Code	Exam	CO number	Co Attainment %	Action taken/ Suggested
1	IV	Advanced Mathematical Techniques	GE2204	MSE 1	GE2204.1	39.11	Revision lecture were conducted
					GE2204.3	15.11	Revision lecture were conducted
				MSE 2	GE2204.2	32.89	Practice questions along with answers were shared.
					GE2204.3	57.78	Practice questions along with answers were shared.



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					GE2204.4	58.22	Practice questions along with answers were shared.
				ESE	GE2204.1	58.82	Extra assignment and practice paper will be taken to satisfy the attainment in the academic session 2022-23.
					GE2204.3	31.36	Extra assignment and practice paper will be taken to satisfy the attainment in the academic session 2022-23.
2	IV	Concrete Technology	CV2251	MSE 1	--	--	--
				MSE 2	CV2251.4	55	Extra lecture has conducted on topic admixture after MSE 2 Exam
				ESE	--	--	Attainment percentage is increased in ESE
3	IV	Structural Analysis	CV2255		CV2255.1	46.82	Remedial classes were engaged by faculty of all section.
				MSE 1	CV2255.2	46.82	Remedial classes were engaged by faculty of all section.
					CV2255.3	46.82	Remedial classes were engaged by faculty of all section.
				MSE 2	CV2255.1	57.62	Assignment is given to students for more practice after MSE 2 Exam.
					CV2255.2	57.62	Assignment is given to students for more practice after MSE 2 Exam.
					CV2255.3	57.62	Assignment is given to students for more practice after MSE 2 Exam.
				ESE	--	--	Attainment percentage is increased in ESE.
4	V	Advanced Structural Analysis	CV2302	MSE 1	--	--	--
				MSE 2	--	--	--
				ESE	CV2302.2	53.46	The concept will be explained with more numerical to satisfy the attainment in the academic session 2022-23.



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					CV2302.4	57.47	The concept will be explained with more numerical to satisfy the attainment in the academic session 2022-23.
5	V	OE1- Introduction to environmental management	CV2333	MSE 1	CV2302.1	50	Explained through process of EIA with case study.
				MSE 2	CV2302.2	53.49	Explained the concept of Sustainable Development with regard to resource management after MSE 2 Exam.
				ESE	--	--	Attainment percentage is increased in ESE.
6	V	Introduction to finite element method	CV2342	MSE 1	CV2342.2	42.51	More practice problems given to students
					CV2342.2	42.51	More practice problems given to students
				MSE 2	--	--	--
				ESE	--	--	Attainment percentage is increased in ESE.
7	VI	Water Transmission and distribution system	CV2369	MSE 1	--	--	--
				MSE 2	--	--	--
				ESE	CV2369.1	57.29	More extra lecture and assignment will be taken on CO 1 in the academic session 2022-23.
					CV2369.4	57.83	More extra lecture and assignment will be taken on CO 1 in the academic session 2022-23
8	VI	Steel Structure	CV2351	MSE 1	CV2351.1	59.89	Student given assignment on syllabus in MSE 1 they have submitted the assignment before MSE2.
					CV2351.2	45.76	Student given assignment on syllabus in MSE 1 they have submitted the assignment before MSE2
					CV2351.3	45.76	Student given assignment on syllabus in MSE 1 they have submitted the assignment before MSE2
					CV2351.4	45.76	Student given



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							assignment on syllabus in MSE 1 they have submitted the assignment before MSE2
				MSE2	--	--	--
				ESE			Attainment percentage is increased in ESE.
9	VI	Hydraulic Engineering	CV2353	MSE 1	CV2353.1	57.86	Extra class was taken to discuss the questions on this topic
				MSE 2	CV2353.2	46.40	Extra class was taken to discuss the questions on this topic
				ESE	--	--	Attainment percentage is increased in ESE.
10	VI	Construction management and machinery	CV2363	MSE1	CV2363.1	58.69	Assignment given
					CV2363.1	43.87	Assignment given
				MSE2	--	--	--
				ESE	--	--	Attainment percentage is increased in ESE.
11	VI	PEII- Earthquake Engineering	CV2364	MSE 1	--	--	--
				MSE 2	--	--	--
				ESE	CV2364.3	46.15	It will be explained through NPTEL videos in the academic session 2022-23.
					CV2364.4	50	The concept will be explained by showing the videos for the past earthquake history in the academic session 2022-23.
12	VI	PEII- Introduction to Remote Sensing	CV2366	MSE 1	CV2366.1	40.70	Explained complete principle of geoinformatics with videos available.
				MSE 2	CV2366.1	21.19	Explained Principal with the help of NPTEL videos.
					CV2366.2	27.44	Explained elements of geoinformatics with the help of NPTEL videos.
					CV2366.3	33.33	The process of digital image processing through internet and NPTEL videos.
					CV2366.4	8.71	Explained from NPTEL videos.
				ESE	CV2366.3	56.82	The concepts will be explained with the help of hands on practice with software in the



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							academic session 2022-23.
13	VI	PEII- Traffic Engineering	CV2368	MSE 1	--	--	--
				MSE 2	--	--	--
				ESE	CV2368.4	50	More theoretical concepts will be explained and numerical will be solved in the academic session 2022-23.
14	VI	OEIII- Introduction to environmental management	CV2373	MSE 1	--	--	--
				MSE 2	--	--	--
				ESE	CV2373.1	50.57	Case study related to tools will be going to elaborate in the academic session 2022-23.
					CV2373.2	52.34	More focus will be given on environmental clearance in the academic session 2022-23.
					CV2373.4	35.48	More focus will be given on a live case study to understand better in the academic session 2022-23.
	CV2373.5	44.12	More focus will be given on sustainable development issues and resource management in the academic session 2022-23.				
15	VI	OE4- Introduction to FEM	CV2382	MSE1	CV2382.1	33.33	More focus is given by conducting Extra classes on low attainment of particular CO.
					CV2382.2	46.03	More focus is given by conducting Extra classes on low attainment of particular CO.
					CV2382.3	57.85	More focus is given by conducting Extra classes on low attainment of particular CO.
				MSE 2	--	--	--
				ESE	--	--	Attainment percentage is increased in ESE.
16	VI	Fundamentals of Economics	GE2312	MSE1	GE2312.2	13.136	In subsequent three lectures more Emphasis has been given on various market structure and factors of



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							production and its role in production process
				MSE2	GE2312.1	38.55	Assignments has been given to improve related knowledge
					GE2312.3	53.39	In subsequent theory lectures more info size has been given on national income accounting and various issues related to banking taxation and inflation
					GE2312.4	55.50	Assignment has been given to improve related knowledge.
				ESE	GE2312.1	52.99	More emphasis will be given buyers behavior and product and pricing in the academic session 2022-23.
					GE2312.2	32.05	More emphasis will be given on planning process in the academic session 2022-23.
					GE2312.3	46.58	More emphasis will be given on national income accounting and the various issues related to banking taxation and inflation in the academic session 2022-23.
17	VII	Estimating and Costing	CV2401	MSE 1	--	--	--
				MSE 2	--	--	--
				ESE	CV2401.4	50.00	Extra lectures will be given to this unit in the academic session 2022-23.
18	VII	Advanced Steel Design	CV2434	MSE 1	--	--	--
				MSE 2	CV2434.1	00	Students given assignment on syllabus in MSE 2 they have submitted the segment before ESE exam
				ESE	--	--	Attainment percentage is increased in ESE.
19	VII	Energy conversion and management	CV2415	MSE1	--	--	--
				MSE2	--	--	--
				ESE	CV2415.2	30.56	CO2 is mostly applicable for contained in unit 1 and unit 2 extra lectures will be given to unit



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							these units in next academic year 2022-23. More number of quizzes will be allotted to concerned topics related to CO2.
--	--	--	--	--	--	--	--

2. Program level Course-PO matrix of all courses including first year courses
Program Articulation Matrix: All courses including first year courses.
(Semester 1 to Semester 8)



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Name of Program: Department of Civil Engineering

ode	PO-1 2.60	PO-2 2.43	PO-3 2.28	PO-4 2.37	PO-5 2.09	PO-6 2.11	PO-7 2.22	PO-8 1.52	PO-9 1.42	PO-10 1.39	PO-11 2.11	PO-12 2.16	PSO-1 2.41	PSO-2 2.00	PSO-3 2.22
CV2101	3	2.8	--	--	--	--	--	2	2	2	2	--	--	--	--
CV2102	3	3	--	--	--	--	--	2	2	2	2	--	--	--	--
CV2201	3	2.5	2.5	3	--	--	--	--	1	1	--	--	--	--	--
CV2202	3	--	--	3	--	--	--	--	2	2	--	--	--	--	--
CV2203	2.75	2.25	2.5	2.25	--	--	--	1	1	1	--	--	--	2	--
CV2204	2.75	2.25	2.5	2.25	--	--	--	1	1	1	--	--	--	2	--
CV2205	2.75	2.25	2	-	-	-	-	1	1	1	-	-	-	-	-
CV2206	2.5	2	2.25	2.75	-	-	-	1	1	1	-	-	-	-	-
CV2207	3	--	2	--	--	2	1.75	1	1	1	--	1	--	--	--
CV2208	2	1	--	1	1	--	--	1	1	1	--	--	--	--	--
GE2201	2	2	2	--	--	--	--	--	--	--	--	--	--	--	--
CV2251	3	--	3	--	--	--	2	1	1	1	--	2	--	--	--
CV2252	3	--	--	2	2	--	--	--	--	--	--	--	--	--	--
CV2253	2	1.5	--	--	1	--	--	--	1	1	--	--	--	--	--
CV2254	2	1.5	--	--	1	--	--	--	1	1	--	--	--	--	--
CV2255	3	3	--	2	--	--	--	1	2	1	--	--	2	--	--
CV2256	3	3	--	2	--	--	--	1	2	1	--	--	2	--	--
CV2257	3	3	2.33	2	--	--	--	1	1	1	--	--	--	--	--
CV2258	1.5	2	--	--	--	--	--	1	1	1	--	--	--	--	--
GE2204	2	2	2	--	--	--	--	--	--	--	--	--	--	--	--
CV2301	3	2.33	2.33	--	--	--	--	2.5	1	1.5	--	2.25	2.5	--	--
CV2302	3	3	--	3	--	--	--	1	2	1	--	2	2	--	--
CV2303	3	3	--	3	3	--	--	1	2	1	--	2	2	--	--
CV2311	--	1.5	--	--	2	--	--	--	1	1	--	--	--	--	--
CV2312	2.25	1.5	--	--	2	--	--	--	1	1	--	--	--	--	--
CV2313	3	2.33	2	--	2	--	--	2	1	1	--	--	--	--	--
CV2314	3	2.33	2	--	2	--	--	2	1	1	--	--	--	--	--
CV2317	3	3	--	3	3	--	--	1	2	1	--	--	2	--	--
CV2318	3	3	--	3	--	--	--	1	2	1	--	2	2	--	--
CV2319	3	--	3	--	--	--	2	1	1	1	--	2	--	--	--
CV2320	3	--	--	2	2	--	--	--	--	--	--	--	--	--	--
CV2321	2.67	--	2.33	--	--	--	1.5	--	--	--	--	--	--	--	--
CV2322	2.67	--	2.33	--	--	--	1.5	--	--	--	--	--	--	--	--
CV2331	3	--	--	--	--	2	2	2	2	2	--	2	--	--	--
CV2332	2	--	--	--	2	--	2	1	1	1	--	2	--	--	--
CV2333	--	--	--	--	--	2.5	3	2.5	1	1.5	--	2.25	--	--	--



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CV2341	2.75	--	--	--	--	2	2	1	1	1	--	--	--	--	--
CV2342	--	2.5	2	--	--	--	--	1	1	1	--	2	--	--	--
CV2343	2.25	--	2	--	2.5	--	2	1	1	1	--	--	--	--	--
CV2351	3	2.5	3	--	--	--	--	3	2	2	--	--	3	--	--
CV2352	1.25	--	--	--	1.50	--	--	--	--	1.75	--	1.50	--	--	3.0
CV2353	2.75	2.33	2	--	--	--	--	1	1	1	--	--	--	--	--
CV2354	2.5	2.5	2.25	2.25	--	--	--	1	1	1	--	--	--	2	--
CV2355	3	3	2	2	--	--	--	1	--	1	--	--	--	--	--
CV2361	3	--	--	--	--	2	2	2	2	2	--	2	--	--	--
CV2362	3.0	--	--	--	2.33	--	2.33	--	--	--	2.33	--	--	--	--
CV2363	2.3	--	--	2.3	--	--	--	2	2.25	2.75	3	3	--	--	--
CV2364	2.25	2.25	2.33	--	--	--	--	3	1	1	--	2	3	--	--
CV2366	2.25	2	--	--	2.25	--	--	2	2	2	--	2	--	--	--
CV2368	2.5	2.33	2.33	--	--	1.5	--	2	2	2.5	--	--	--	--	--
CV2369	2.25	2.25	2.66	--	2	--	--	1	1	1	--	--	--	--	--
CV2371	3	--	--	--	--	2	2	2	2	2	--	2	--	--	--
CV2372	2	--	--	--	2	--	2	1	1	1	--	2	--	--	--
CV2373	--	--	--	--	--	2.5	3	2.5	1	1.5	--	2.25	--	--	--
CV2381	2.75	--	--	--	--	2	2	1	1	1	--	--	--	--	--
CV2382	--	2.5	2	--	--	--	--	1	1	1	--	2	--	--	--
CV2383	2.25	--	2	--	2.5	--	2	1	1	1	--	--	--	--	--
CV2401	2.4	2.5	--	--	--	--	--	2	2	2	--	2.4	--	--	2
CV2402	2.25	2.33	--	--	--	--	--	2	2	2	--	2.25	--	--	2
CV2403	3	2.75	2	2	--	--	2.25	1.25	1	1	--	--	--	--	--
CV2404	2.75	2	2.5	--	--	--	--	--	1	1	--	--	--	--	--
CV2411	3	2.25	2.33	--	2	--	--	2	2	2	--	2.5	2.5	--	--
CV2412	2.5	2.5	3	--	--	--	--	2	1	1	--	--	1.5	--	--
CV2415	2	--	--	--	--	3	3	1.75	1.25	1.5	--	2	2	--	--
CV2416	2.66	2.66	3	2.33	--	--	--	1.66	1	1	--	--	--	2	--
CV2418	2.5	2	--	--	--	--	--	1	1	1	--	--	--	--	--
CV2419	2.5	2.5	2	--	2	--	--	1	1	1	--	--	--	--	--
CV2422	2.25	3	--	--	3	--	--	--	1	1	--	--	--	--	--
CV2423	2.25	2.25	2	2.5	--	--	--	--	--	--	--	--	--	--	--
CV2425	--	--	--	--	--	3	3	3	1.5	1.75	--	2.5	--	--	--
CV2426	3	2	2	1.5	--	--	--	2	1	1	--	--	--	2	--
CV2428	3	2	2.25	--	--	--	--	2	2	2	--	--	--	--	--
CV2429	2	--	--	--	2	--	2	1	1.33	1	--	1.33	--	--	--
CV2431	1.5	--	--	--	--	2.25	2.75	2	1.5	2	--	3	--	--	--
CV2432	--	1.5	--	--	--	1.75	2	1.75	2	1.75	3	2.5	--	--	--



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CV2434	3	2.5	3	--	--	--	--	3	2	2	--	--	3	--	--
CV2435	3	3	2	--	--	--	--	2	2.67	2.67	--	--	--	--	--
CV2438	2	1.5	2	--	--	--	--	1.25	1	1	--	--	--	--	--
CV2439	3	2.5	1.5	--	--	--	--	1	1	1	--	--	--	--	--
CV2440	2.9	2.4	2.5	1.9	2.0	0.7	1.0	2.4	2.6	2.2	1.9	1.1	2.3	2.0	2.1
CV2409	2.66	2.5	2.25	3	1.67	--	--	--	2.67	2.33	2	--	--	2	--
CV2410	2.75	2.5	--	--	2	--	--	2	2	2	1.9	1.1	2.3	2.0	2.1
CV2451	2.9	2.4	2.5	1.9	2.0	0.7	1.0	2.4	2.6	2.2	1.9	1.1	2.3	2.0	2.1
CV2452	--	--	--	--	--	2.5	2.45	2.75	2.5	2.5	--	2.75	--	--	--

3. Evaluation of each PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO-1	PSO-2	PSO-3
Direct Attainment	2.45	2.44	2.40	2.52	2.50	2.59	2.47	1.64	1.64	1.65	2.40	2.49	2.42	1.61	2.47
In Direct Attainment	2.62	2.70	2.59	2.63	2.62	2.57	2.61	1.81	1.80	1.74	2.54	2.75	2.25	1.51	2.29
(80 % Direct + 20% Indirect) Total Attainment	2.49	2.49	2.44	2.54	2.53	2.58	2.50	1.67	1.67	1.66	2.43	2.54	2.39	1.59	2.43



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- **Result analysis of subjects taught in previous semester. (Annexure 3)**
The overall and subject wise result analysis of Even Term 2021-22 has been shown to the BoS Experts. Experts appreciated the efforts taken by the faculty for such good results.

S.N.	Semester	Pass %
1	IV	86.82
2	VI	82.30
3	VIII	100.00

As the results of all the semesters are above 80%, no action is requiring to be taken.

- **Stake holders' feedback on review and design of curriculum**

S.N.	Stakeholder	Feedback	Action Taken
1.	Parent	Subject related to new techniques in construction should be added	In new SoE 22-23, courses such as Project Planning Management, Construction Techniques etc. has been added as core instead of professional electives.
2	Alumni	1. More Site/ industrial visit should be arranged.	As per curriculum site visit is only for VI sem students but from the session 2022-23 at least one site visit will be arranged for remaining sem.
		2. Industry based courses should be run.	1.From 2021-22, Structural Engineering Practices is running as PE-V for VII semester students. 2. Industry aligned course PE- IV Advanced Foundation Engineering will be offered from session 22-23 in VII semester
		3. Teach software which industry has demanded	3. Started with HIT-office -The ERP software for Construction for VII semester.
3	Student	1.Courses including current practices and innovative application should be started.	1.Coursera course "Mastering Bitumen for better Roads and Innovative Application" is started in 5 th Semester with 3 credits for theory and 1 credit for laboratory from AY 2022-23
		2. Advanced and trending tools, techniques and methods should be included in syllabus to get specialized in particular stream or area.	2.Lab. Course on BIM is incorporated in SOE-2022 for the 6 th semester. Value added course on BIM is conducted every year.
4	Faculty	CV 2351 Steel Structures :Need to delete a topic Built-up Beams from Unit 5	Will be incorporated in the said syllabus.



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DEPARTMENT OF CIVIL ENGINEERING

- In Sem, End Sem and Exit feedback on Teaching Lear & curriculum.
All feedback has been discussed with BoS Experts.

Sem	No. of faculty with feedback more than 90%		No. of faculty with feedback more than 80%		No. of faculty with feedback less than 80% and greater than 60%	
	In Sem	End Sem	In Sem	End Sem	In Sem	End Sem
IV	14/15	14/15	01/15	01/15	-	-
	93.33%	93.33%	6.67%	6.67%	-	-
VI	14/19	11/19	04/19	08/19	01/19	-
	73.68%	57.89%	21.05%	42.10%	5.26%	-

As feedback on teaching learning is above 60%, BoS experts appreciated and asked to maintain the same.

Agenda No. 30.05

1.To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2018 & B.Tech 2020) of the Undergraduate and Post graduate programs conducted under the Board.

All members were asked if any further correction or amendment was required to be done in the scheme of examination of the Undergraduate and Post graduate programs.

No corrections and amendments were proposed by any members for SoE Autonomous 2018 of the Undergraduate and of Post graduate programs.

2.To approve and ratify SoE22 and all syllabi of B.Tech and M.Tech I & II year .

10th Curriculum Development workshop was conducted on Tuesday 19th July 2022 for validation of SoE 22 and all syllabi of B.Tech and M.Tech I & II year . Validation of the syllabus was carried out as per thrust area of curriculum by experts of various domain. The SoE and syllabi of all courses has been approved and validated after thorough discussions.

Agenda No. 30.06

To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2018 & B.Tech.2020 Schemes of Undergraduate and Post graduate programs conducted under the Board.

All members were asked if any further correction or amendment was required to be done in the syllabus of various courses in Autonomous 2018 Schemes of Undergraduate and Post graduate programs. The following proposal has been forwarded:

1.Industry aligned Elective: From session Odd 2022-23, PE-IV CV2426 Advanced Foundation Engineering will be offered as Industry aligned elective for VII semester. The syllabus of the said course is framed by BoS member Dr.P.B.Pande in collaboration with Er. Sanjay Wankhede, Director,GeoSystems Research and Consultant Pvt. Ltd.,Nagpur.

2.New Professional Elective: It has been decided to offer CV 2323 PE-I Environmental Management as PE-I for V semester students.

3. CV 2351 Steel Structures : Need to delete a topic Built-up Beams from Unit 5-The suggestion will be incorporated in the syllabus.



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DEPARTMENT OF CIVIL ENGINEERING

4. SoE 2022-23

10th Curriculum Development workshop was conducted on Tuesday 19th July 2022 for validation of SoE 22 and all syllabi of B.Tech and M.Tech I & II year. Validation of the syllabus was carried out as per thrust area of curriculum by experts of various domain. The SoE and syllabi of all courses has been approved and validated after thorough discussions.

The following changes are carried out for SoE 2022-23 having 160 credit.

S.N.	Semester	Course Name	Remark
1	I semester Group A	Engineering Mechanics (T+P)	-
2	I semester Group B	Strength of Materials (T+P)	Branch Specific Course is added.
3	III Semester	Application of Python Programming in Civil Engineering	As per NEP 2020, bridge courses are identified and added in the SoE 2022-23.
4	IV Semester	Quantity, Estimation and Management	
5	V Semester	Engineering Hydrology	In SoE 2018-19, the said subject was merged with Water Resources Engineering. From the feedback of students and alumni, it is again introduced in SoE 2022-23 as a core course.
6	VI Semester	Building Information Modelling	To cope up with the current scenario of the industry, laboratory course is introduced.
7	VII Semester	Project Planning and Quality Assurance	The subject is introduced to make the students industry ready in the field of construction management.

The BoS experts approved to run the said elective courses from current session and asked to incorporate the modification in the syllabus of Steel Structures.

Agenda No. 30.07

To discuss and suggest the changes in the books/Reference Books/Literature Sources published in the syllabi of courses in various Schemes of undergraduate and Postgraduate Programs.

No corrections and amendments were proposed by any members in the laboratory courses of Under-Graduate and Post Graduate programs



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Agenda No. 30.08

To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under-Graduate and Post Graduate programs.

All members were asked if any correction or amendment was required to be done in the list of experiments Autonomous 2018 Schemes of Undergraduate and Post graduate programs of Undergraduate and Post graduate programs.

No corrections and amendments were proposed by any members in the laboratory courses of Under-Graduate and Post Graduate programs

Agenda No. 30.09

To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board.

The chairman asked to suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs for further submission to Academic Council.

No suggestions were proposed by any members.

Finally, it was unanimously resolved that the existing Academic Regulations governing the Undergraduate and Post graduate programs be continued without any corrections

Agenda No. 30.10

To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.

1.As per the directives from DAM Office, it is decided to offer one NPTEL course in each semester. Accordingly, NPTEL courses and its syllabus available on the website are mapped with the syllabus of courses running in the department. It has been decided to offer Fluid Mechanics of IIT Guwahati conducted by Dr. Subhashisa Dutta for III semester students.

2.For the academic session Odd 2022-23, it has been decided to allot professional elective offered through Coursera for V semester students. For this, "Mastering Bitumen for Better Roads and Innovative Applications" conducted by "École Des Ponts ParisTech", University in Paris, France will be offered as Professional Elective -I(PE-I) for first 20 bright students considering their consent for the course. The course consists of 4 modules. The students have to complete laboratory course also assigned to (PE-I). After successful completion of each module and laboratory work, student will receive certificate which have to submit for the grade allotment.

Agenda No. 30.11

To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Odd Term 2022-23

The panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Odd Term 2022-23 will be decided after the notification received from CoE.



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Agenda No. 30.12

To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Odd Term 2022-23.

The list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Odd Term 2022-23 will be decided after the notification received from CoE.

Agenda No. 30.13

To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination Odd 2022-23.

The panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination Odd 2022-23 will be decided after the notification received from CoE.

Agenda No. 30.14

Preparation of Electronic question Bank UG courses according to SoE 2018.

To review solutions to all questions of Electronic Question Banks for all courses.

Electronic question Bank of UG courses for all semester has been prepared. Solutions to all questions of Electronic Question Banks for all courses are in process.

Agenda No. 30.15

To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses.

No suggestions were proposed by any members.

Finally, it was unanimously resolved that the existing Evaluation Process for theory and other courses be continued without any corrections.

Agenda No. 30.16

To discuss and propose scheme for Minor and Honor course and its syllabus.

1. B.Tech.Honor Program in Earthquake Engineering has been proposed in 10th Curriculum Development workshop dated on Tuesday 19th July 2022. The SoE and syllabi of all courses under this program has been validated by CDW Experts.

2. From the session Odd 2022-23, department will offer B.Tech. Honor Program in Remote Sensing and GIS in collaboration with Ceinsys Tech.Ltd.Nagpur. Total 19 students of V semester have enrolled for the program. The program will be commencing from August 22,2022.

3. B.Tech.Honor Program in Construction Technology- Total 3 courses viz., Advanced Concrete Technology (IIT Madras), Principles of Construction Management (IIT Kanpur) and Project Planning and Control(IIT Madras) has been registered by the students under this program .



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2. From the session Odd 2022-23, department will offer B.Tech. Honor Program in Remote Sensing and GIS in collaboration with Ceinsys Tech.Ltd.Nagpur. Total 19 students of V semester have enrolled for the program. The program will be commencing from August 22,2022.
3. B.Tech.Honor Program in Construction Technology- Total 3 courses viz., Advanced Concrete Technology (IIT Madras),Principles of Construction Management (IIT Kanpur) and Project Planning and Control(IIT Madras). has been registered by the students under this program .

To Discuss and propose Certificate courses and value-added courses in 2022-23.

Following Value added courses will be conducted

S.N.	Name	Semester	Date of conduction (Tentative)
1	Introduction to BIM 360	V	September 2022
2	Extended Period Simulation using Water GEMS	V	October 2022
3	Analysis and Design components using STAAD	V	October 2022
4	Building modelling and Design using ETAB	VII	November 2022
5	2D Max Modelling by AutoCAD	III	December 2022
6	Hands -on HIT Office Construction ERP	VII	October 2022

Agenda No. 30.17

Any other matter with the permission of the Chair.

From the session Odd 2022-23, laboratory course of Estimating and Costing will be conducted through HIT-office -The ERP software for Construction for VII semester students.

All suggestions have been welcomed and forwarded for further submission to Academic Council.
The meeting ended with thank to chair.

Prof. Ms. Charuta S. Waghmare
BoS Member Secretary
Department of Civil Engineering

Dr.S.P.Raut
Head and Chairman
Department of Civil Engineering



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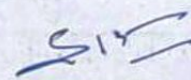
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ANNEXURE 1

Action Taken Report on 29th BoS dated on Saturday 8th January 2022

S.N.	Feedback	Action Taken/Remarks
1	Dr.Boskey Bahoria suggested corrections in CV2435 PE-V : Design Of Bridge Structures of VII semester as 1.Stability analysis of Abutments & Piers added in Unit IV 2. Design of bridge bearings added in Unit V.	The changes incorporated in the syllabus.
2.	Prof.K.S.Ansari suggested to add Introduction to Life Cycle Assessment in unit V of CV2333 OE-I Introduction to Environmental Management	The changes incorporated in the syllabus
3.	Dr.R.R.Dighade suggested few corrections to CV2354 Lab : Hydraulic Engineering: 1. Experiment No.13 Study of performance of centrifugal pump and Experiment No.14 Study of performance of Pelton wheel to be removed. 2. Experiment No.10 Sketch the various standard profiles in open channels flow and Experiment No.11 Sketch the various profiles in open channels flow by considering break in grade to be added in the syllabus.	The changes incorporated in the syllabus
4.	Construction Management conducted by Columbia University; US is offered through Coursera platform as professional elective -II for VI semester first 20 bright students.	All students successfully completed the said course and are allotted with A+ grade.
5.	Students registered for Honor Construction Technology (NPTEL platform)	All registered students successfully completed the courses
6.	Value added courses for the students	Department has conducted various value-added courses.


Prof. Ms. Charuta S. Waghmare
BoS Member Secretary
Department of Civil Engineering


Dr.S.P.Raut
Head and Chairman
Department of Civil Engineering



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DEPARTMENT OF CIVIL ENGINEERING

NOTICE {BoS}

Date:- 31st January 2023

Meeting No 31 of Board of Studies of Civil Engineering Department is scheduled on Friday, 3rd February, 2023 at 2:00 pm in Departmental Library.

All staff members are requested to attend the meeting. The agenda of the meeting is mentioned below. All staff members are requested to read the agenda carefully so that they can give fruitful suggestions in the meeting.

Agenda Points

Agenda No.. 31.01

Welcome of new members

Agenda No.. 31.02

Installation of member Secretary

Agenda No.. 31.03

Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.

Agenda No.. 31.04

To discuss and suggest the action taken on

- Co/Po attainment of subjects taught in previous semester
- Result analysis of subjects taught in previous semester
- Stake holders' feedback on review and design of curriculum
- In Sem, End Sem and Exit feedback on Teaching Lear & curriculum

Agenda No.. 31.05

To discuss and suggest the changes in the Scheme of Examination (known as Autonomous SoE 2020 & 2022) of the Undergraduate and Post graduate programs conducted under the Board.

To approve and ratify SoE22 and all syllabi of B.Tech and M.Tech I & II year .

Agenda No.. 31.06

To discuss and suggest the minor changes in the syllabi of various courses in B.Tech.2020 Schemes of Undergraduate and Post graduate programs conducted under the Board.

Agenda No.. 31.07

To discuss and suggest the changes in the books/Reference Books/Literature Sources published in the syllabi of courses in various Schemes of undergraduate and Postgraduate Programs.

Agenda No.. 31.08

To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under-Graduate and Post Graduate programs.



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Agenda No.. 31.09

To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board.

Agenda No.. 31.10

To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.

Agenda No.. 31.11

To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Even Term 2022-23.

Agenda No.. 31.12

To prepare and propose the panel of paper setters and Valuers for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Even Term 2022-23.

Agenda No.. 31.13

To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination Even 2022-23.

Agenda No.. 31.14

Preparation of Electronic question Bank UG courses according to B. Tech. SoE 2020 & 2022.
To review solutions to all questions of Electronic Question Banks for all courses

Agenda No.. 31.15

To discuss and suggest the changes/additions/deletions/alterations in the existing. Evaluation Process for theory and other courses.

Agenda No.. 31.16

To discuss and propose scheme for Minor an Honor course and its syllabus.

To Discuss and propose Certificate courses and value-added courses in Even term 2022-23.

Agenda No.. 31.17

Any other matter with the permission of the Chair.

Prof. Ms. Charuta S. Waghmare
BoS Member Secretary
Department of Civil Engineering

Dr.S.P.Raut
Head and Chairman
Department of Civil Engineering



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DEPARTMENT OF CIVIL ENGINEERING

NOTICE {BoS}

Date:- 31st January 2023

Meeting No 31 of Board of Studies of Civil Engineering Department is scheduled on Friday, 3rd February, 2023 at 2:00 pm in Departmental Library. All staff members are requested to attend the meeting.

S.N.	Name	Signature	S.N.	Name	Signature
1	Dr. Udaykumar P. Waghe	-	18	Ms. Amruta Arun Yadav	
2	Dr. Shantanu Ramkrishna Khandeshwar		19	Ms. Sangita Shivcharan Meshram	
3	Dr. Sudhir Vasantrao Ambekar		20	Mr. Prashant Baban Pande	
4	Dr. Abhay Vinayakrao Patil	-	21	Mr. Atul Sambhuji Kurzekar	
5	Dr. Vilas Ganuji Meshram		22	Mr. Vivek Dnyandeo Jayale	
6	Dr. Ajay Ramdas Gajbhiye		23	Mr. Harshal Madhukar Warade	
7	Dr. Rajendra Rupraoji Dighade		24	Ms. Pallavi Shalikram Chakole	
8	Mr. Bhupesh Purshottam Nandurkar		25	Ms. Snehal Karunkumar Kamble	
9	Dr. Ms. Madhuri S. Bhagat		26	Mr. Sanket Gajanan Kalamkar	
10	Dr. Sanjay Padmakar Raut	-	31	Mr. Sagar Wasudeo Dhengare	
11	Mrs. Vaishali Nilesh Mendhe		28	Ms. Monali Rewashankar Wagh	
12	Ms. Charuta Subhash Waghmare		29	Mr. Yogesh Prabhakar Kherde	
13	Mr. Khalid Shamim Ansari		31	Ms. Sneha Gowardhan Hirekhan	
14	Mr. Harshal Ramesh Rao Nikhade		31	Mr. Rajesh Madhukar Bhagat	
15	Mr. Jayant Manohar Raut		32	Dr. Mrs. Boskey V. Bahoria	
16	Mr. Dhiraj Giridharilal Agrawal		33	Mr. Anuksh Naresh Asati	
17	Mr. Pawan Kesharao Hinge		34	Prof. Uday Singh Patil	

Name	Signature	Name	Signature	Name	Signature
Dr.A.D.Ghare	-	Dr. M.Madurwar		Dr.M.D.Goel	
Er.Jagdish Lanjewar	-	Prof.S.N.Harinkhede			



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DEPARTMENT OF CIVIL ENGINEERING

NOTICE {BoS} Attendance Sheets

Date:- 03rd February 2023

Meeting No 31 of Board of Studies of Civil Engineering Department is scheduled on Friday 3rd February 2023 at 02:00 pm in Departmental Library. All staff members are requested to attend the meeting.

S.N.	Name	Signature	S.N.	Name	Signature
1	Dr. Udaykumar P. Waghe	-	18	Ms. Amruta Arun Yadav	
2	Dr. Shantanu Ramkrishna Khandeshwar		19	Ms. Sangita Shivcharan Meshram	
3	Dr. Sudhir Vasanttrao Ambekar		20	Mr. Prashant Baban Pande	
4	Dr. Abhay Vinayakrao Patil		21	Mr. Atul Sambhuji Kurzekar	
5	Dr. Vilas Ganuji Meshram		22	Mr. Vivek Dnyandeo Jayale	
6	Dr. Ajay Ramdas Gajbhiye		23	Mr. Harshal Madhukar Warade	
7	Dr. Rajendra Rupraoji Dighade		24	Ms. Pallavi Shalikram Chakole	
8	Mr. Bhupesh Purshottam Nandurkar		25	Ms. Snehal Karunkumar Kamble	
9	Dr. Ms. Madhuri S. Bhagat		26	Mr. Sanket Gajanan Kalamkar	
10	Dr. Sanjay Padmakar Raut		31	Mr. Sagar Wasudeo Dhengare	
11	Mrs. Vaishali Nilesh Mendhe		28	Ms. Monali Rewashankar Wagh	
12	Ms. Charuta Subhash Waghmare		29	Mr. Yogesh Prabhakar Kherde	
13	Mr. Khalid Shamim Ansari		31	Ms. Sneha Gowardhan Hirekhan	
14	Mr. Harshal Rameshrao Nikhade		31	Mr. Rajesh Madhukar Bhagat	
15	Mr. Jayant Manohar Raut		32	Dr. Mrs. Boskey V. Bahoria	
16	Mr. Dhiraj Giridharilal Agrawal		33	Mr. Anuksh Naresh Asati	
17	Mr. Pawan Kesharao Hinge		34	Prof. Uday Singh Patil	

Name	Signature	Name	Signature	Name	Signature
Dr. A.D. Ghare		Dr. M. Madurwar		Dr. M.D. Goel	
Er. Jagdish Lanjewar		Prof. S.N. Harinkhede			



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DEPARTMENT OF CIVIL ENGINEERING

Minutes of 31st BoS Meeting dated on Friday, 3rd, February, 2023

31st Meeting of BoS of Civil Engineering was held on Friday, 3rd, February, 2023. It was chaired by Dr.S.P.Raut, Chairman BoS. Following members were present.

S.N.	Name	S.N.	Name
1	Dr.M.V.Madurwar	20	Ms. Amruta Arun Yadav
2	Dr.M.D.Goel	21	Ms. Sangita Shivcharan Meshram
3	Prof.S.N.Harinkhede	22	Dr. Prashant Baban Pande
4	Dr. Udaykumar P. Waghe	23	Mr. Atul Sambhuji Kurzekar
5	Dr. Sudhir Vasantrao Ambekar	24	Mr. Vivek Dnyandeo Jayale
6	Dr. Abhay Vinayakrao Patil	25	Mr. Harshal Madhukar Warade
7	Dr. Ajay Ramdas Gajbhiye	26	Ms. Pallavi Shalikram Chakole
8	Dr. Rajendra Rupraoji Dighade	27	Ms. Snehal Karunkumar Kamble
9	Mr.Devendra Rajram Raut	29	Mr. Sanket Gajanan Kalamkar
10	Mr. Bhupesh Purshottam Nandurkar	29	Mr. Sagar Wasudeo Dhengare
11	Dr. Ms. Madhuri S. Bhagat	30	Mr. Yogesh Prabhakar Kherde
12	Dr. Sanjay Padmakar Raut	31	Ms. Sneha Gowardhan Hirekhan
13	Mrs. Vaishali Nilesh Mendhe	32	Mr. Rajesh Madhukar Bhagat
14	Ms. Charuta Subhash Waghmare	33	Dr. Mrs. Boskey V. Bahoria
15	Mr. Khalid Shamim Ansari	34	Mr. Anukhsh Naresh Asati
16	Mr. Harshal Rameshrao Nikhade	35	Mr. Uday Singh Patil
17	Mr. Jayant Manohar Raut		
18	Mr. Dhiraj Giridharilal Agrawal		
19	Mr. Pawan Kesharao Hinge		

Following members has been permitted leave of absence

1. Dr.A.D.Ghare
2. Er. Jagdish Lanjewar
3. Dr. Vilas Ganuji Meshram



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DEPARTMENT OF CIVIL ENGINEERING

Minutes of Meetings 31st BoS Meeting

Agenda No. 31.01

Welcome of new members

Dr S. P. Raut welcomed all BoS experts viz., Dr. M. V. Madurwar, Associate Professor, Department of Civil Engineering, VNIT, Nagpur, Dr. M. D. Goel, Associate Professor, Department of Applied Mechanics, VNIT, Nagpur, Prof. S. N. Harinkhede, Alumni and Assistant Professor, GHRIET, Nagpur. Departmental BoS members has also been welcomed by the Chairman.

Agenda No. 31.02

Installation of member Secretary

It has been decided to retain Ms. Charuta S. Waghmare as Member secretary BoS for the session 2022-23.

Agenda No. 31.03

Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.

The minutes of previous meeting no.30 held on Thursday 11th August 2022 were already circulated to all members. The ATR of previous meeting have been discussed with BoS members. After confirmation, Chairman asked to accept the minutes of meeting. Dr. Boskey Bahoria accepted the minutes. Prof. Monali Wagh seconded it. The minutes were then accepted.

Agenda No. 31.04

To discuss and suggest the action taken on

- Co/Po attainment of subjects taught in previous semester
The Co/Po attainment of courses of III,V and VII semester are in process .
- **Result analysis of subjects taught in previous semester**
The overall and subject wise result analysis of Odd Term 2022-23 (V and VII semester) has been shown to the BoS Experts. Experts appreciated the efforts taken by the faculty for such good results. ESE of III semester have been started from 1st February 2023.

S.N.	Semester	Pass %
1	III	Yet to published
2	V	73.21%
3	VII	84.19%

- Stake holders' feedback on review and design of curriculum

S.N.	Stakeholder	Feedback	Action taken
1	Parent	Subject related to new techniques in construction should be added.	1.Industry aligned courses namely Structural Engineering Practices and Advanced Foundation Engineering was offered for VII semester students. 2.Construction Management and Machinery has been offered as professional elective for VI semester students. 3.Courses such as Project Planning Management, Construction Techniques etc. has been added as core instead of professional electives in SoE 22-



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			23.
2	Students	More focus on Hands - on-training on Software .	As per the need of the current scenario, value added courses focussing on software knowledge, viz; STAADPRO, HIT OFFICE Construction management ERP, Primavera was conducted and courses like 3D Max, Revit will be executed for IV,VI semester students .
3	Alumni	Industry oriented software's and electives should be incorporated in the curriculum.	1.Value added courses focussing on the demand of industry has been planned for the current students. 2.In new SoE 22-23 Building Information Modelling has been added as a laboratory course. 3.Industry oriented professional electives has been offered to the students. 4.Industry collaborated Honor program 'Remote Sensing and GIS' has been offered for the V semester students.
4	Faculty	Curriculum is designed considering need of the era.	New SoE has been designed in such a manner so has to have more focus on courses required to make the students industry ready.

- In Sem, End Sem and Exit feedback on Teaching Lear & curriculum

Sem	No. of faculty with feedback more than 90%		No. of faculty with feedback more than 80%		No. of faculty with feedback less than 80% and greater than 60%		No. of faculty with feedback less than 60%	
	In Sem	End Sem	In Sem	End Sem	In Sem	End Sem	In Sem	End Sem
III	1/10 10.00	1/10 10.00	8/10 80.00	9/10 90.00	1/10 10.00	--	--	--
V	10/15 66.67	12/15 80.00	4/15 26.66	3/15 20.00	1/15 6.67	--	--	--
VII	26/29 89.66	25/29 86.20	3/29 10.34	3/29 10.34	--	1/29 3.45		

Agenda No. 31.05

To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2020 & SoE 2022) of the Undergraduate and Post graduate programs conducted under the Board.

To approve and ratify SoE22 and all syllabi of B.Tech and M.Tech I & II year .

All members were asked if any further correction or amendment was required to be done in the scheme of examination of the Undergraduate and Post graduate programs.

No corrections and amendments were proposed by any members for SoE Autonomous 2020 & SoE 2022 of the Undergraduate and of Post graduate programs.



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Agenda No. 31.06

To discuss and suggest the minor changes in the syllabi of various courses in B.Tech.2020 Schemes of Undergraduate and Post graduate programs conducted under the Board.

S.N.	Semester	Course Code and Name	Suggested Modifications	
			Contents Added	Contents Deleted
1	VII	CV2401 Estimating & Costing (The sequence of the units in syllabus need to change.)	1. Building estimate should be shifted and added in Unit II from unit V. 2. Unit IV Earthwork should be shifted in unit III. 3. Specifications & rate analysis of Unit II should be added unit IV. 4. Tender Conditions of Contract should be added in Unit V. 5. Valuation from Unit III should be shifted to Unit VI,	-
2	VII	CV2434 PE -V Advanced Steel Design	Gantry Girder should be added in Unit II	Moment resistant Connection should be deleted from unit II

Agenda No. 31.07

To discuss and suggest the changes in the books/Reference Books/Literature Sources published in the syllabi of courses in various Schemes of undergraduate and Postgraduate Programs.

No corrections and amendments were proposed by any members in the laboratory courses of Under-Graduate and Post Graduate programs

Agenda No. 31.08

To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under-Graduate and Post Graduate programs.

All members were asked if any correction or amendment was required to be done in the list of experiments of Undergraduate and Post graduate programs of Undergraduate and Post graduate programs. No corrections and amendments were proposed by any members in the laboratory courses of Under-Graduate and Post Graduate programs.

Agenda No. 31.09

To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board.

The chairman asked to suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs for further submission to Academic Council. No suggestions were proposed by any members. Finally, it was unanimously resolved that the existing Academic Regulations governing the Undergraduate and Post graduate programs be continued without any corrections.

Agenda No. 31.10

To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.

It has been decided to allot Professional Elective -II offered through Coursera, "Construction Management" conducted by Columbia University, US, to first 20 bright students of VI semester,



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Even term 2022-23. It will be offered after considering their consent for the course. The course consists of 4 modules. After successful completion of each module, student will receive certificate which have to submit for the grade allotment

Agenda No. 31.11

To prepare and propose the panel of paper Setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Even Term 2022-23.

The panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Even Term 2022-23 will be decided after the notification received from CoE.

Agenda No. 31.12

To prepare and propose the panel of paper setters and Valuers for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Even Term 2022-23.

The panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Even Term 2022-23 will be decided after the notification received from CoE.

Agenda No. 31.13

To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination Even 2022-23.

The panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Even Term 2022-23 will be decided after the notification received from CoE.

Agenda No. 31.14

Preparation of Electronic question Bank UG courses according to B.Tech. SoE 2020 & 2022. To review solutions to all questions of Electronic Question Banks for all courses.

Sr.No	Semester	Course Code	Title of the course	Type of course PC/PE	Remarks	
					EQB	Solution
1	III Sem.	CV2203	Geotechnical Engineering	PC	Yes	Yes
2	III Sem.	CV2201	Strength of Materials	PC	Yes	Yes
3	III Sem.	CV2205	Fluid Mechanics	PC	Yes	Yes
4	IV Sem.	CV2251	Concrete Technology	PC	Yes	Yes
5	IV Sem.	CV2253	Surveying	PC	Yes	Yes
6	IV Sem.	CV2257	Transportation Engineering	PC	Yes	Yes
7	V Sem.	CV2319	PE-I : Advanced Concrete	PE	Yes	Yes



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			Technology			
8	V Sem.	CV2302	Advanced Structural Analysis	PC	Yes	Yes
9	V Sem.	CV2311	PE-I : Advanced Surveying	PE	Yes	Yes
10	V Sem.	CV2313	PE-I : Computer Applications in Civil Engineering	PE	Yes	Yes
11	V Sem. & VI Sem.	CV2333	OE-I : Introduction to Environmental Management	PC	Yes	Yes
12	VI Sem.	CV2351	Steel Structures	PC	Yes	Yes
13	VI Sem.	CV2355	Foundation Engineering	PC	Yes	Yes
14	VII Sem.	CV2401	Estimating & Costing	PC	Yes	Yes
15	VII Sem.	CV2403	Wastewater Engineering	PC	Yes	Yes
16	VII Sem.	CV2404	Hydrology and Water Resources Engineering	PC	Yes	Yes
17	VII Sem.	CV2418	PE-III : Urban Transportation Planning	PE	Yes	Yes
18	VII Sem.	CV2435	PE-V : Design of Bridge Structures	PE	Yes	Yes

Agenda No. 31.15

To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses.

No suggestions were proposed by any members. Finally, it was unanimously resolved that the existing Evaluation Process for theory and other courses be continued without any corrections.

Agenda No. 31.16

To discuss and propose scheme for Minor and Honor course and its syllabus.

1. Department have offered B.Tech.Honor Program (Remote sensing and GIS). The course has been in collaboration with Ceinsys Tech.Ltd.Nagpur. Mr.Ranjan Das, Manager GIS division was the key person. Total 19 students opted for this course.

2. BoS Experts suggested to offer Introduction to Non-destructive testing. as Minor Program from Civil Engineering Department.

To Discuss and propose Certificate courses and value-added courses in Even term 2022-23.



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Status of certificate & value-added courses conducted by department in Odd AY 22-23

SN	Deptt.	Title of course	Sem	Course Hours	Mode of Training	Dates of conduction & total hours in course	No of Students attended the cert / vac	Remarks
1	Civil Engineering	Value-added course on "Highway Engineering Design by Civil 3D"	V	30	ONLINE	1,2,8,9,15 October 2022, 5 Days (30 Hrs)	90	
2	Civil Engineering	Value-added course on "Seismic Analysis & Design of G+5 RCC Building Using STAADPRO"	VII	30	ONLINE	18 September, 2, 16 October, 6,8 November 2022, 5 days (30 Hrs)	68	
3	Civil Engineering	Value-added course on "Transportation Design by MX Road"	V	30	ONLINE	1,2,8,9,15 October 2022, 5 Days (30 Hrs)	94	
4	Civil Engineering	Value Added Course on "HIT OFFICE Construction management ERP"	VII	30	ONLINE	17 Sept, 1, 8,15,22 October 2022, 5 Days, (30 Hrs)	74	
5	Civil Engineering	Value-added course on Primavera	VII	30	ONLINE	17 September 1 & 15 October, 5 & 12 November 2022 (30 Hrs)	69	
6	Civil Engineering	Value Added Course on Principles of Building using Auto-CAD	III	30	ONLINE + OFFLINE	24 December 2022, 7,8,20,21,22 January 2023 (30 Hrs)	85	

Planning of certificate & value added courses conducted by departments



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In **EVEN** AY 22-23

SN	Deptt.	Title Of Course	Sem	Course Hours	Mode Of Training	Proposed Dates Of Conduction & Total Hours In Course	No Of Students Expected To Attend Cert / Vac	Remarks
1	Civil Engineering	Value Added Course on "Building Planning"	IV	30	Online + Offline	March 2023		
2	Civil Engineering	Value Added Course on "3D MAX Structure visualization"	IV	30	Online + Offline	March 2023		
3	Civil Engineering	Value Added Course on "Advanced Survey Road Design by MX Road Software"	VI	30	Online + Offline	February 2023		
4	Civil Engineering	Value Added Course on "Structure Modelling By Revit"	VI	30	Online + Offline	March 2023		
5	Civil Engineering	Value Added Course on "Project Planning and Estimation"	VI	30	Online + Offline	March 2023		
6	Civil Engineering	Value added course on "HIT Office Construction Management ERP"	VI	30	Online + Offline	March 2023		

Agenda No.. 31.17

Any other matter with the permission of the Chair.



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Agenda No. 31.17

Any other matter with the permission of the Chair.

All suggestions have been welcomed and forwarded for further submission to Academic Council.
The meeting ended with thank to chair.

Prof. Ms. Charuta S. Waghmare
BoS Member Secretary
Department of Civil Engineering

Dr.S.P.Raut
Head and Chairman
Department of Civil Engineering



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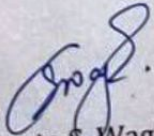
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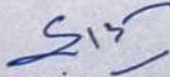
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ANNEXURE 1

Action Taken Report on 30th BoS dated on Thursday, 11th August 2022

S.N.	Feedback /Comments	Action Taken/Remarks
1	From session Odd 2022-23, PE-IV CV2426 Advanced Foundation Engineering will be offered as Industry aligned elective for VII semester. The syllabus of the said course is framed by BoS member Dr.P.B.Pande in collaboration with Er. Sanjay Wankhede, Director, GeoSystems Research and Consultant Pvt. Ltd., Nagpur	The said course has been offered as an industry aligned course from the current session.
2.	CV 2323 PE-I Environmental Management will be offered as PE-I for V semester students.	The said course has been offered as an PE-I for the students of V semester for session 22-23.
3.	In the 10 th CDW, new courses will be offered considering need of the industry and society.	Courses such as Engineering Hydrology, Building Information Modelling, Project Planning and Quality Assurance has been included in the new SoE 22-23.
4.	B.Tech.Honor Program in Earthquake Engineering has been proposed in 10 th Curriculum Development workshop to be offered for III year students.	SoE and syllabus of the said course has been approved by BoS experts and will be sent to Dean for further processing.
5.	B.Tech. Honor Program in Remote Sensing and GIS in collaboration with Ceinsys Tech.Ltd.Nagpur will be offered for III year students.	SoE and syllabus of the said course has been approved by BoS experts and will be sent to Dean for further processing.
6.	Value added courses for the students	Department has conducted various value-added courses.
7.	From odd 2022-23, laboratory course of Estimating and Costing will be conducted through HIT-office -The ERP software for Construction for VII semester students.	The said course has been conducted for the students of VII semester for session 22-23.


Prof. Ms. Charuta S. Waghmare
BoS Member Secretary
Department of Civil Engineering


Dr.S.P.Raut
Head and Chairman
Department of Civil Engineering



Civil Engineering

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
TOTAL FIRST & SECOND SEM										47				
Third Semester														
1	3	BS	GE2201	Engineering Mathematics III	T	3	0	0	3	3	30	20	50	3
2	3	PC	CV2201	Strength of Materials	T	3	0	0	3	3	30	20	50	3
3	3	PC	CV2202	Lab:- Strength of Materials	P	0	0	2	2	1		60	40	
4	3	PC	CV2203	Geotechnical Engineering	T	3	0	0	3	3	30	20	50	3
5	3	PC	CV2204	Lab:- Geotechnical Engineering	P	0	0	2	2	1		60	40	
6	3	PC	CV2205	Fluid Mechanics	T	3	0	0	3	3	30	20	50	3
7	3	PC	CV2206	Lab:- Fluid Mechanics	P	0	0	2	2	1		60	40	
8	3	PC	CV2207	Water Supply Engineering	T	3	0	0	3	3	30	20	50	3
9	3	PC	CV2208	Lab:- Water Supply Engineering	P	0	0	2	2	1		60	40	
TOTAL						15	0	8	23	19				

Fourth Semster														
1	4	BS	GE2204	Advance Mathematical Techniques	T	3	0	0	3	3	30	20	50	3
2	4	PC	CV2251	Concrete Technology	T	3	0	0	3	3	30	20	50	3
3	4	PC	CV2252	Lab:- Concrete Technology	P	0	0	2	2	1		60	40	
4	4	PC	CV2253	Surveying	T	3	0	0	3	3	30	20	50	3
5	4	PC	CV2254	Lab:- Surveying	P	0	0	2	2	1		60	40	
6	4	PC	CV2255	Structural Analysis	T	4	0	0	4	4	30	20	50	3
7	4	PC	CV2256	Lab:- Structural Analysis	P	0	0	2	2	1		60	40	
8	4	PC	CV2257	Transportation Engineering	T	3	0	0	3	3	30	20	50	3
9	4	PC	CV2258	Lab:- Transportation Engineering	P	0	0	2	2	1		60	40	
TOTAL						16	0	8	24	20				

Audit Courses														
1	4	HS	GE2121	Env Studies for 4 Sem. CV,ME,EE,IT	A	3	0	0	3	0				
2	3	HS	AU2123	YCCE Communication Aptitude Preparation (YCAP3)	A	3	0	0	3	0				
3	4	HS	AU2124	YCCE Communication Aptitude Preparation (YCAP4.1) for CV,ME,CT,IT,CSE	A	3	0	0	3	0				

MSEs* = Two MSEs of 15 Marks each will conducted and marks of these 2 MSEs will be considered for Continuous Assessment

TA = for Theory : 5 marks on lecture quizzes, 11 marks on TA2+TA4 activitied decided by course teacher, 4 marks on class attendance**

TA = for Practical : MSPA will be 15 marks each**

		June 2022	1.05	Applicable for AY 2022-23 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



Civil Engineering

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Fifth Semester														
1	5	HS	GE2311	Fundamental of Management	T	3	0	0	3	3	30	20	50	3
2	5	PC	CV2301	Reinforced Concrete Structures	T	3	0	0	3	3	30	20	50	4
3	5	PC	CV2302	Advanced Structural Analysis	T	3	0	0	3	3	30	20	50	3
4	5	PC	CV2303	Lab:- Analysis and Design Studio	P	0	0	2	2	1		60	40	
5	5	PE-I		Professional Elective-I	T	3	0	0	3	3	30	20	50	3
6	5	PE-I		Lab:- Professional Elective -I	P	0	0	2	2	1		60	40	
7	5	OE-I		Open Elective - I *	T	3	0	0	3	3	30	20	50	3
8	5	OE-I		Open Elective - II *	T	3	0	0	3	3	30	20	50	3
TOTAL						18	0	4	22	20				

Professional Elective - I

1	5	PE-I	CV2311	PE-I : Advanced Surveying
	5	PE-I	CV2312	PE-I Lab : Advanced Surveying
2	5	PE-I	CV2313	PE-I : Computer Applications in Civil Engineering
	5	PE-I	CV2314	PE-I Lab : Computer Applications in Civil Engineering
3	5	PE-I	CV2315	PE-I : Building Construction and Materials
	5	PE-I	CV2316	PE-I Lab : Building Construction and Materials
4	5	PE-I	CV2317	PE-I : Matrix Analysis of Structures
	5	PE-I	CV2318	PE-I Lab : Matrix Analysis of Structures
5	5	PE-I	CV2319	PE-I : Advanced Concrete Technology
	5	PE-I	CV2320	PE-I Lab : Advanced Concrete Technology
6	5	PE-I	CV2321	PE-I : Water Treatment
	5	PE-I	CV2322	PE-I Lab : Water Treatment
7	5	PE-I	CV2323	PE-I : Environmental Management
	5	PE-I	CV2324	PE-I Lab : Environmental Management
8	5	PE-I	CV2325	PE-I : Soil Characterization & Identification
	5	PE-I	CV2326	PE-I Lab : Soil Characterization & Identification
9	5	PE-I	CV2327	PE-I : Geographical Information Systems
	5	PE-I	CV2328	PE-I Lab : Geographical Information Systems

Open Electives -I

1	5	OE-I	CV2331	OE-I : Building Services Engineering
2	5	OE-I	CV2332	OE-I : Construction Techniques
3	5	OE-I	CV2333	OE-I : Introduction to Environmental Management
4	5	OE-I	CV2334	OE-I : Basics of Transportation Engineering
5	5	OE-I	CV2335	OE-I : Basics of Water Resource Engineering
6	5	OE-I	CV2336	OE-I : Elements of Water Power Engineering

Open Electives -II

1	5	OE-II	CV2341	OE II : Elements of Earthquake Engineering
2	5	OE-II	CV2342	OE II : Introduction to Finite Element Method
3	5	OE-II	CV2343	OE II : Air Pollution and Solid Waste Management
4	5	OE-II	CV2344	OE-II : Environmental & Social Impact Assessment
5	5	OE-II	CV2345	OE II : Disaster Management

Audit Courses

1	5	HS	AU2126	YCCE Communication Aptitude Preparation (YCAP5.1) for CV,ME,CT,IT,CSE	A	3	0	0	3	0				
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MSEs* = Two MSEs of 15 Marks each will conducted and marks of these 2 MSEs will be considered for Continuous Assessment

TA = for Theory : 5 marks on lecture quizzes, 11 marks on TA2+TA4 activitied decided by course teacher, 4 marks on class attendance**

TA = for Practical : MSPA will be 15 marks each**

		June 2022	1.05	Applicable for AY 2022-23 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



Civil Engineering

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Sixth Semester														
1	6	HS	GE2312	Fundamental of Economics	T	3	0	0	3	3	30	20	50	3
2	6	PC	CV2351	Steel Structures	T	3	0	0	3	3	30	20	50	4
3	6	PC	CV2352	Lab:- Building Design Drawing	P	0	0	2	2	1		60	40	
4	6	PC	CV2353	Hydraulic Engineering	T	3	0	0	3	3	30	20	50	3
5	6	PC	CV2354	Lab:- Hydraulic Engineering	P	0	0	2	2	1		60	40	
6	6	PC	CV2355	Foundation Engineering	T	3	0	0	3	3	30	20	50	3
7	6	PE-II		Professional Elective -II	T	3	0	0	3	3	30	20	50	3
8	6	OE-II		Open Elective - III **	T	3	0	0	3	3	30	20	50	3
9	6	OE-IV		Open Elective - IV **	T	3	0	0	3	3	30	20	50	3
10	6	STR	CV2360	Industry Visit and its report	P	0	0	0	0	1		100		
TOTAL						21	0	4	25	24				

Audit Courses														
1	6	HS	AU2128	YCCE Communication Aptitude Preparation (YCAP6.1) for CV,EL	A	3	0	0	3	0				

Professional Elective - II

1	6	PE-II	CV2361	PE-II : Building Services
2	6	PE-II	CV2362	PE-II : New Engineering Materials
3	6	PE-II	CV2363	PE-II : Construction Management And Machinery
4	6	PE-II	CV2364	PE-II : Earthquake Engineering
5	6	PE-II	CV2365	PE-II : Optimization Techniques
6	6	PE-II	CV2366	PE-II : Introduction to Remote Sensing
7	6	PE-II	CV2367	PE-II : Environmental Geotechniques
8	6	PE-II	CV2368	PE-II : Traffic Engineering
9	6	PE-II	CV2369	PE-II : Water Transmission and Distribution Systems
10	6	PE-II	CV2370	PE-II : Construction Management

Open Electives -III

1	VI	OE-III	CV2371	OE-III : Building Services Engineering
2	VI	OE-III	CV2372	OE-III : Construction Techniques
3	VI	OE-III	CV2373	OE-III : Introduction to Environmental Management
4	VI	OE-III	CV2374	OE-III : Basics of Transportation Engineering
5	VI	OE-III	CV2375	OE-III : Basics of Water Resource Engineering
6	VI	OE-III	CV2376	OE-III : Elements of Water Power Engineering

Open Electives -IV

1	VI	OE-IV	CV2381	OE-IV : Elements of Earthquake Engineering
2	VI	OE-IV	CV2382	OE-IV : Introduction to Finite Element Method
3	VI	OE-IV	CV2383	OE-IV : Air Pollution and Solid Waste Management
4	VI	OE-IV	CV2384	OE-IV : Environmental & Social Impact Assessment
5	VI	OE-IV	CV2385	OE-IV : Disaster Management

Coursera Electives

1	6	PE-II	CV2377	PE-II : Construction Management Techniques
2	5	PE-I	CV2329	PE-I : Mastering bitumen for better roads and innovative applications
	5	PE-I	CV2330	PE-I : Lab Mastering bitumen for better roads and innovative applications

MSEs* = Two MSEs of 15 Marks each will conducted and marks of these 2 MSEs will be considered for Continuous Assessment

TA = for Theory : 5 marks on lecture quizzes, 11 marks on TA2+TA4 activities decided by course teacher, 4 marks on class attendance**

TA = for Practical : MSPA will be 15 marks each**

		June 2022	1.05	Applicable for AY 2022-23 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



Civil Engineering

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Seventh Semester														
1	7	PC	CV2401	Estimating & Costing	T	3	0	0	3	3	30	20	50	3
2	7	PC	CV2402	Lab:- Estimating & Costing	P	0	0	2	2	1		60	40	
3	7	PC	CV2403	Wastewater Engineering	T	3	0	0	3	3	30	20	50	3
4	7	PC	CV2404	Hydrology and Water Resources Engineering	T	3	0	0	3	3	30	20	50	3
5	7	PE-III		Professional Elective -III	T	3	0	0	3	3	30	20	50	3
6	7	PE-IV		Professional Elective -IV	T	3	0	0	3	3	30	20	50	3
7	7	PE-V		Professional Elective -V	T	3	0	0	3	3	30	20	50	3
8	7	STR	CV2409	Mini Project	P	0	0	4	4	2		60	40	
9	7	STR	CV2410	Campus Recruitment Training (CRT)	P	0	0	0	0	2		100		
TOTAL						18	0	6	24	23				

Professional Elective - III

1	7	PE-III	CV2411	PE-III : Prestressed Concrete
2	7	PE-III	CV2412	PE-III : Advanced RCC
3	7	PE-III	CV2413	PE-III : Numerical Methods and Computational Techniques
4	7	PE-III	CV2414	PE-III : Environmental Impact Assessment
5	7	PE-III	CV2415	PE-III : Energy Conversion and Management
6	7	PE-III	CV2416	PE-III : Geotechnical Investigation & Ground Improvement Techniques
7	7	PE-III	CV2417	PE-III : Earth and Earth Retaining Structures
8	7	PE-III	CV2418	PE-III : Urban Transportation Planning
9	7	PE-III	CV2419	PE-III : Advanced Hydraulics

Professional Elective - IV

1	7	PE-IV	CV2421	PE-IV : Natural Resources Management
2	7	PE-IV	CV2422	PE-IV : Finite Element Method
3	7	PE-IV	CV2423	PE-IV : Introduction to Structural Dynamics
4	7	PE-IV	CV2424	PE-IV : Wastewater Treatment
5	7	PE-IV	CV2425	PE-IV : Environmental Legislation and Management System
6	7	PE-IV	CV2426	PE-IV : Advanced Foundation Engineering
7	7	PE-IV	CV2427	PE-IV : Geosynthetics
8	7	PE-IV	CV2428	PE-IV : Advanced Transportation Engineering
9	7	PE-IV	CV2429	PE-IV : Watershed Management
10	7	PE-IV	CV2430	PE-IV : Advanced Fluid Mechanics and Hydraulic Machines

Professional Elective - V

1	7	PE-V	CV2431	PE-V : Maintenance and Rehabilitation Engineering
2	7	PE-V	CV2432	PE-V : Project Planning and Management
3	7	PE-V	CV2433	PE-V : Modern Surveying Technique
4	7	PE-V	CV2434	PE-V : Advanced Steel Design
5	7	PE-V	CV2435	PE-V : Design of Bridge Structures
6	7	PE-V	CV2436	PE-V : Industrial Waste Water Treatment and Reuse
7	7	PE-V	CV2437	PE-V : Finite Element methods in Geotechnical Engineering
8	7	PE-V	CV2438	PE-V : Pavement Design
9	7	PE-V	CV2439	PE-V : Water Power Engineering
10	7	PE-V	CV2440	PE-V : Structural Engineering Practices

MSEs* = Two MSEs of 15 Marks each will conducted and marks of these 2 MSEs will be considered for Continuous Assessment

TA = for Theory : 5 marks on lecture quizzes, 11 marks on TA2+TA4 activities decided by course teacher, 4 marks on class attendance**

TA = for Practical : MSPA will be 15 marks each**

		June 2022	1.05	Applicable for AY 2022-23 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



Civil Engineering

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Eighth Semester														
1	8	STR	CV2451	Major Project	P	0	0	12	12	9		60	40	
2	8	STR	CV2452	Extra curricular Activity Evaluation	P	0	0	0	0	1		100		
TOTAL						0	0	12	12	10				
GRAND TOTAL						88	0	42	130	163				

MSEs* = Two MSEs of 15 Marks each will conducted and marks of these 2 MSEs will be considered for Continuous Assessment

TA ** = for Theory : 5 marks on lecture quizzes, 11 marks on TA2+TA4 activities decided by course teacher, 4 marks on class attendance

TA** = for Practical : MSPA will be 15 marks each

TA** = for Practical : MSPA will be 15 marks each

		June 2022	1.05	Applicable for AY 2022-23 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	

Mechanical Engineering

NOTICE

{BoS}

Date:- 10/02/2023

The **thirtieth meeting** of the Board of Studies in **Mechanical Engineering** is scheduled on **Friday 15th Feb 2023 at 11:00AM.**

The agenda for the meeting is as follows:

Item No. 30.01

Welcome of members

Item No. 30.02

Installation of member

Item No. 30.03

Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.

Item No. 30.04

To discuss and suggest the action taken on

- i) Co/Po attainment of subjects taught in previous semester
- ii) Result analysis of subjects taught in previous semester
- iii) Stake holders feedback on review and design of curriculum
- iv) In Sem, End Sem and Exit feedback on Teaching Learning & curriculum

Item No. 30.05

To discuss and suggest the changes in the Scheme of Examination (known as Autonomous B.Tech 2020 & SoE 2022) of the Undergraduate and Post graduate programs conducted under the Board. To approve and ratify SoE22 and all syllabi of B.Tech / M.Tech I & II year Nagar Yuwak Shikshan Sanstha'Item

Item No. 30.06

To discuss and suggest the minor changes in the syllabi of various courses in B.Tech 2020 Schemes of Undergraduate and Post graduate programs conducted under the Board.

Item No. 30.07

To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate and Postgraduate Programs.

Item No. 30.08

To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under-Graduate and Post Graduate programs.

Item No. 30.09

To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board.

Item No. 30.10

To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.

Item No. 30.11

To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Odd Term/Even Term 2022-23 .

Item No. 30.12

To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Odd/Even Term 2022-23

Item No. 30.13

To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination Odd/Even Term 2022-23.

Item No. 30.14

Preparation of Electronic question Bank UG courses according to B.Tech SoE 2020 & 2022 To review solutions to all questions of Electronic Question Banks for all courses

Item No. 30.15

To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses.

Item No. 30.16

To discuss and propose scheme for Minor an Honor course and its syllabus. To Discuss and propose Certificate courses and value-added courses in Even Term 2022-23.

Item No. 30.17

Any other matter with the permission of the Chair.

Dr. J.P.Giri
Chairman
BoS in Mechanical Engineering

Prof. A.P. Edlabadkar
Member Secretary
BoS in Mechanical Engineering

NOTICE
{BoS}

Date:- 10/02/2023

30th Meeting of Board of Studies(Wednesday 15/02/2023)

BoS Members

Sr. No.	Name	Designation	Sign	Sr. No.	Name	Designation	Sign
1	Dr. J. P. Giri	Chairman, BOS		24	Dr. P. D. Kamble	Member	
2	Dr. Y. M. Puri	University Expert		25	Prof. R. V. Adakane	Member	
3	Dr. A. S. Dhobale	External Expert		26	Prof. D. N. Kashyap	Member	
4	Mr. Shree Jamdar	Industrial Expert		27	Prof. A. R. Narkhede	Member	
5	Mr. Irfan Makki	Meritorious Alumini		28	Prof. S. P. Kamble	Member	
6	Prof. V. M. Korde	Advisor, BOS		29	Prof. Y. Y. Nandurkar	Member	
7	Prof. A. P. Edlabadkar	Member Secretary		30	Prof. M. M. Dakhore	Member	
8	Dr. R. B. Chadge	Member		31	Prof. P. S. Barve	Member	
9	Prof. D. I. Sangotra	Member		32	Prof. N. D. Gedam	Member	
10	Prof. N. J. Giradkar	Member		33	Prof. C. A. Mahatme	Member	
11	Prof. A. S. Bonde	Member		34	Prof. G. M. Dhote	Member	
12	Dr. S. T. Bagde	Member		35	Dr. V. R. Khawale	Member	
13	Dr. S. S. Chaudhari	Member		36	Prof. P. A. Hatwalne	Member	
14	Prof. V. G. Thakre	Member		37	Dr. A. P. Kedar	Member	
15	Dr. S. R. Jachak	Member		38	Dr. S. V. Prayagi	Member	
16	Prof. M. S. Tufail	Member		39	Prof. N. R. Sunehria	Member	
17	Dr. S. P. Ambade	Member		40	Prof. P. V. Lande	Member	
18	Prof. P. N. Shende	Member		41	Prof. S. S. Nagpure	Member	
19	Prof. A. B. Amale	Member		42	Prof. N. P. Mungle	Member	
20	Prof. G. H. Waghmare	Member					
21	Prof. R. G. Bodkhe	Member					
22	Prof. D. Y. Shahare	Member					
23	Dr. S. S. Khedkar	Member					

Minutes of 30th BoS Meeting dated on Wednesday 15th Feb 2023

30th Meeting of BoS of Mechanical Engineering was held on **Wednesday 15th Feb 2023**.

It was chaired by Dr. J.P.Giri, Chairman. The following members were present.

S.N.	Name	S.N.	Name
1	Dr. J. P. Giri	23	Dr. P. D. Kamble
2	Dr. Y. M. Puri	24	Prof. R. V. Adakane
3	Dr. A. S. Dhobale	25	Prof. D. N. Kashyap
4	Prof. V. M. Korde	26	Prof. A. R. Narkhede
5	Prof. A. P. Edlabadkar	27	Prof. S. P. Kamble
6	Dr. R. B. Chadge	29	Prof. Y. Y. Nandurkar
7	Prof. D. I. Sangotra	29	Prof. M. M. Dakhore
8	Prof. N. J. Giradkar	30	Prof. P. S. Barve
9	Prof. A. S. Bonde	31	Prof. N. D. Gedam
10	Dr. S. T. Bagde	32	Prof. C. A. Mahatme
11	Dr. S. S. Chaudhari	33	Prof. G. M. Dhote
12	Prof. V. G. Thakre	34	Dr. V. R. Khawale
13	Dr. S. R. Jachak	35	Prof. P. A. Hatwalne
14	Prof. M. S. Tufail	36	Dr. A. P. Kedar
15	Dr. S. P. Ambade	37	Dr. S. V. Prayagi
16	Prof. P. N. Shende	38	Prof. N. R. Sunehria
17	Prof. A. B. Amale	39	Prof. P. V. Lande
18	Prof. G. H. Waghmare	40	Prof. S. S. Nagpure
19	Prof. R. G. Bodkhe	41	Prof. N. P. Mungle
20	Prof. R. G. Bodkhe		
21	Prof. D. Y. Shahare		
22	Dr. S. S. Khedkar		

Following members has been permitted leave of absence

1.Mr. Shree Jamdar

2. Mr. Irfan Makki

Minutes of Meetings 30th BoS Meeting



Agenda No. 30.01

Welcome of new members

Dr J.P.Giri welcomed all BoS experts viz., Dr. Y.M.Puri Associate Professor, Department of Mechanical Engineering, VNIT, Nagpur, Dr. A.S. Dhoble, Associate Professor, Department of Mechanical ; Engineering, VNIT, Nagpur Departmental BoS members has also been welcomed by the Chairman.

Agenda No. 30.02

Installation of Member Secretary

No Change.

Agenda No. 30.03

Confirmation of minutes of previous Meeting and action is taken report on decisions/suggestions of the previous meeting.

The minutes of previous meeting no. 29 held on Saturday 18th August 2022 were already circulated to all members. The ATR of the previous meeting has been discussed with BoS members. (Annexure 1). After confirmation, Chairman asked to accept the minutes of the meeting Dr. S.S. Chaudhari accepted the minutes. Prof. A.S. Bonde seconded it. The minutes were then accepted.

Agenda No. 30.04

To discuss and suggest the action taken on

- **Co/Po attainment of subjects taught in previous semester.** (Annexure 2)
The complete process of CO/PO attainment is in process
- **Result analysis of subjects taught in the previous semester.** (Annexure 3)
The overall and subject-wise result analysis of ODD Term 2022-23 has been shown to the BoS Experts. Experts appreciated the efforts taken by the faculty for such good results.

S.N.	Semester	Pass %
1	V	71.00
2	VII	84.00

As the results of all the semesters are above 80%, no action is required to be taken.

- **Stakeholders' feedback on the review and design of the curriculum**

S.N.	Stakeholder	Feedback	Action Taken
1.	Parent	Subject related to new techniques in construction should be added	In new SoE 21-22, courses such as Surface Engineering, Machine learning in Manufacturing Techniques etc.has been added as core and professional electives.
2	Alumni	1. More Site/ industrial visit should be arranged. 2. Industry based courses should be run.	1.All semester students will be benefitted with site visits. 2.Offered from new session
3	Student	1.Courses including current practices and innovative application should be started.	1.Coursera course "Aerial Robotics and mobility" is started in 7th Semester with 3 credits for theory from AY 2022-23.
4	Faculty	Changes required in existing syllabus were suggested.	Will be incorporated in the said syllabus.

- **In Sem, End Sem and Exit feedback on Teaching Lear & curriculum.**
All feedback has been discussed with BoS Experts.

Sem	No. of faculty with feedback more than 90%		No. of faculty with feedback more than 80%		No. of faculty with feedback less than 80% and greater than 60%		No. of faculty with feedback less than 60%	
	In Sem	End Sem	In Sem	End Sem	In Sem	End Sem	In Sem	End Sem
V	13/15	13/15	02/15	02/15	-	-	-	-
VII	22/26	22/26	04/26	04/26	-	-	-	-

As feedback on teaching learning is above 60%, BoS experts appreciated and asked to maintain the same.

Agenda No. 30.05

1.To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2018 & B.Tech 2020) of the Undergraduate and Post graduate programs conducted under the Board.

All members were asked if any further correction or amendment was required to be done in the scheme of examination of the Undergraduate and Post graduate programs.

No corrections and amendments were proposed by any members for SoE Autonomous 2018 of the Undergraduate and of Post graduate programs.

2.To approve and ratify SoE22 and all syllabi of B.Tech and M.Tech I & II year .

10th Curriculum Development workshop was conducted on Tuesday 19th July 2022 for validation of SoE 22 and all syllabi of B.Tech and M.Tech I & II year . Validation of the syllabus was carried out as per thrust area of curriculum by experts of various domain. The SoE and syllabi of all courses has been approved and validated after thorough discussions.

Agenda No. 30.06

To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2018 & B.Tech.2020 Schemes of Undergraduate and Post graduate programs conducted under the Board.

All members were asked if any further correction or amendment was required to be done in the syllabus of various courses in Autonomous 2018 Schemes of Undergraduate and Post graduate programs.

Agenda No. 30.07

To discuss and suggest the changes in the books/Reference Books/Literature Sources published in the syllabi of courses in various Schemes of undergraduate and Postgraduate Programs.

No corrections and amendments were proposed by any members in the laboratory courses of Under-Graduate and Post Graduate programs

Agenda No. 30.08

To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under-Graduate and Post Graduate programs.

No corrections and amendments were proposed by any member

Agenda No. 30.09

To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board.

No corrections and amendments were proposed by any member

Agenda No. 30.10

To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.

No corrections and amendments were proposed by any member

Agenda No. 30.11

To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Odd/Even Term 2022-23

The panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Odd/Even Term 2022-23 will be decided after the notification received from CoE.

Agenda No. 30.12

To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Odd/Even Term 2022-23.

The list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Odd/Even Term 2022-23 will be decided after the notification received from CoE.

Agenda No. 30.13

To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination Odd 2022-23.

The panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination Odd 2022-23 will be decided after the notification received from CoE.

Agenda No. 30.14

Preparation of Electronic question Bank UG courses according to SoE 2018.

To review solutions to all questions of Electronic Question Banks for all courses.

Following is the account of EQB with solution available and will distributed to students very shortly.

Agenda No. 30.15

To discuss and suggest the changes/additions/deletions/alterations in the existing. Evaluation Process for theory and other courses.

No suggestions were proposed by any members.

Agenda No. 30.16

To discuss and propose a scheme for the Minor and Honor course and its syllabus.

No suggestions were proposed by any members.

Agenda No. 30.17

Any other matter with the permission of the Chair.

1. As per the suggestions given by the external expert Attainment should be carried out on the basis of CGPA, which results in less achievement and helps to show more improvement in the view of the NBA.
2. Question banks should not be circulated among the students with the solution. Ask the students to find out the solutions of the given questions.
3. Question banks should be prepared considering campus interviews.
4. Machining processes of First sem should be replace by Material Science and Metallurgy.

Dr. J.P.Giri
Chairman
BoS in Mechanical Engineering

Prof. A.P. Edlabadkar
Member Secretary
BoS in Mechanical Engineering



Mechanical Engineering

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
TOTAL FIRST & SECOND SEM										47				
Third Semester														
1	3	BS	GE2201	Engineering Mathematics III	T	3	0	0	3	3	30	20	50	3
2	3	PC	ME2201	Material Science & Metallurgy	T	3	0	0	3	3	30	20	50	3
3	3	PC	ME2202	Lab:- Material Science & Metallurgy	P	0	0	2	2	1		60	40	
4	3	PC	ME2203	Machining Process	T	3	0	0	3	3	30	20	50	3
5	3	PC	ME2204	Lab:- Machining Process	P	0	0	2	2	1		60	40	
6	3	PC	ME2205	Mechanics of Material	T	4	0	0	4	4	30	20	50	3
7	3	PC	ME2206	Lab:- Mechanics of Material	P	0	0	2	2	1		60	40	
8	3	PC	ME2207	Kinematics of Machines	T	3	0	0	3	3	30	20	50	3
9	3	PC	ME2208	Fluid Mechanics	T	4	0	0	4	4	30	20	50	3
10	3	PC	ME2209	Lab:- Fluid Mechanics	P	0	0	2	2	1		60	40	
TOTAL						20	0	8	28	24				

Fourth Semster														
1	4	BS	GE2204	Advance Mathematical Techniques	T	3	0	0	3	3	30	20	50	3
2	4	PC	ME2251	Design of Machine Elements	T	3	0	0	3	3	30	20	50	3
3	4	PC	ME2252	Engineering Thermodynamics	T	3	0	0	3	3	30	20	50	3
4	4	PC	ME2253	Lab:- Machine Drawing	P	0	0	2	2	1		60	40	
5	4	PC	ME2254	Manufacturing Process-II	T	3	0	0	3	3	30	20	50	3
6	4	PC	ME2255	Lab:- Manufacturing Process-II	P	0	0	2	2	1		60	40	
7	4	PC	ME2256	Mechanical measurement & Metrology	T	4	0	0	4	4	30	20	50	3
8	4	PC	ME2257	Lab:- Mechanical measurement & Metrology	P	0	0	2	2	1		60	40	
TOTAL						16	0	6	22	19				

Audit Courses														
1	4	HS	GE2121	Env Studies for 4 Sem. CV,ME,EE,IT	A	3	0	0	3	0				
2	3	HS	AU2123	YCCE Communication Aptitude Preparation (YCAP3)	A	3	0	0	3	0				
3	4	HS	AU2124	YCCE Communication Aptitude Preparation (YCAP4.1) for CV,ME,CT,IT,CSE	A	3	0	0	3	0				

MSEs* = Two MSEs of 15 Marks each will conducted and marks of these 2 MSEs will be considered for Continuous Assessment
TA ** = for Theory : 5 marks on lecture quizzes, 11 marks on TA2+TA4 activitied decided by course teacher, 4 marks on class attendance
TA = for Practical : MSPA will be 15 marks each**

		June 2022	1.05	Applicable for AY 2022-23 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



Mechanical Engineering

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Fifth Semester														
1	5	HS	GE2311	Fundamental of Management	T	3	0	0	3	3	30	20	50	3
2	5	PC	ME2301	Heat Transfer	T	3	0	0	3	3	30	20	50	3
3	5	PC	ME2302	Lab:- Heat Transfer	P	0	0	2	2	1		60	40	
4	5	PC	ME2303	Dynamics of Machines	T	3	0	0	4	3	30	20	50	3
5	5	PC	ME2304	Lab:- Dynamics of Machines	P	0	0	2	2	1		60	40	
6	5	PC	ME2305	Production Management	T	3	0	0	3	3	30	20	50	3
7	5	OE-I		Open Elective - I *	T	3	0	0	3	3	30	20	50	3
8	5	OE-II		Open Elective - II *	T	3	0	0	3	3	30	20	50	3
9	5	STR	ME2310	Industry Visit and its report	P	0	0	0	0	1		100		
TOTAL						18	0	4	23	21				

Open Electives -I

1	5	OE-I	ME2331	OE I : Operations Research Techniques
2	5	OE-I	ME2332	OE I : Automobile Engineering
4	5	OE-I	ME2334	OE I : Control System Engineering
5	5	OE-I	ME2335	OE I: Robotics and Subtractive Manufacturing

Open Electives -II

1	5	OE-II	ME2341	OE II : Total Quality Management
2	5	OE-II	ME2342	OE II : Reliability Engineering
3	5	OE-II	ME2343	OE II : Power Generation Engineering
4	5	OE-II	ME2344	OE II : Project Evaluation & Management

Audit Courses

1	5	HS	AU2126	YCCE Communication Aptitude Preparation (YCAP5.1) for CV,ME,CT,IT,CSE	A	3	0	0	3	0				
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MSEs* = Two MSEs of 15 Marks each will conducted and marks of these 2 MSEs will be considered for Continuous Assessment

TA ** = for Theory : 5 marks on lecture quizzes, 11 marks on TA2+TA4 activitied decided by course teacher, 4 marks on class attendance

TA = for Practical : MSPA will be 15 marks each**

		June 2022	1.05	Applicable for AY 2022-23 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



Mechanical Engineering

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Sixth Semester														
1	6	HS	GE2312	Fundamental of Economics	T	3	0	0	3	3	30	20	50	3
2	6	PC	ME2351	Fluid Machines	T	3	0	0	3	3	30	20	50	3
3	6	PC	ME2352	Lab:- Fluid Machines	P	0	0	2	2	1	60	40		
4	6	PC	ME2353	Computer Aided Design (CAD LAB)	P	0	0	2	2	1	60	40		
5	6	PC	ME2354	Design of Mechanical Drives	T	3	0	0	3	3	30	20	50	3
6	6	PE-I		Professional Elective I	T	3	0	0	3	3	30	20	50	3
7	6	PE-I		Lab:- Professional Elective I	P	0	0	2	2	1	60	40		
8	6	OE-III		Open Elective - III **	T	3	0	0	3	3	30	20	50	3
9	6	OE-IV		Open Elective - IV **	T	3	0	0	3	3	30	20	50	3
TOTAL						18	0	6	24	21				

* Refere list Open Elective- I & II

** Refere list Open Elective- III & IV

Audit Courses														
1	6	HS	AU2129	YCEE Communication Aptitude Preparation (YCAP6.2)for ME, EE ETC	A	3	0	0	3	0				

List of Professional Electives-I

1	6	PE-I	ME2361	PE I : Finite Element Methods										
	6	PE-I	ME2362	PE I : Lab:- Finite Element Methods										
2	6	PE-I	ME2363	PE I : Computer Graphics										
	6	PE-I	ME2364	PE I : Lab:- Computer Graphics										
3	6	PE-I	ME2365	PE I : I.C. Engines										
	6	PE-I	ME2366	PE I : Lab:- I.C. Engines										
4	6	PE-I	ME2367	PE I : Refrigeration & Cryogenics										
	6	PE-I	ME2368	PE I : Lab:- Refrigeration & Cryogenics										
5	6	PE-I	ME2369	PE I : Computer Integrated Manufacturing										
	6	PE-I	ME2370	PE I : Lab:- Computer Integrated Manufacturing										
6	6	PE-I	ME2371	PE I : Mechatronics										
	6	PE-I	ME2372	PE I : Lab:- Mechatronics										
7	6	PE-I	ME2373	PE I : Data Structure and Algorithm										
	6	PE-I	ME2374	PE I : Lab:Data Structure and Algorithm										
8	6	PE-I	ME2375	PE I : Management Information System										
	6	PE-I	ME2376	PE I : Lab: Management Information System										
9	6	PE-I	ME2377	PE I :Industrial Fluid Power										
	6	PE-I	ME2378	PE I : Lab:- Industrial Fluid Power										
10	6	PE-I	ME2379	PE I : Thermal Engineering Systems										
	6	PE-I	ME2380	PE I : Lab:Thermal Engineering Systems										
11	6	PE-I	ME2387	PE I : Advance Welding Techniques										
	6	PE-I	ME2388	PE I : Lab: Advance Welding Techniques										
12	6	PE-I	ME2389	PE I : Control Systems Engineering										
	6	PE-I	ME2390	PE I : Lab: Control Systems Engineering										

Coursera Electives

1	6	PE-I	ME2385	PE I : Supply Chain Management										
	6	PE-I	ME2386	PE I : Lab:- Supply Chain Management										
2	7	PE-IV	ME2450	PE IV: Aerial Robotics and Mobility										

Open Electives -III

1	6	OE-III	ME2381	OE III : Operations Research Techniques										
2	6	OE-III	ME2382	OE III : Automobile Engineering										
3	6	OE-III	ME2383	OE III : Control System Engineering										
4	6	OE-III	ME2384	OE-III : Robotics and Subtractive Manufacturing										

Open Electives -IV

5	6	OE-IV	ME2391	OE IV : Total Quality Management										
6	6	OE-IV	ME2392	OE IV : Reliability Engineering										
7	6	OE-IV	ME2393	OE IV : Power Generation Engineering										
8	6	OE-IV	ME2394	OE IV : Project Evaluation & Management										

MSEs* = Two MSEs of 15 Marks each will conducted and marks of these 2 MSEs will be considered for Continuous Assessment

TA = for Theory : 5 marks on lecture quizzes, 11 marks on TA2-TA4 activitied decided by course teacher, 4 marks on class attendance**

TA = for Practical : MSPA will be 15 marks each**

		June 2022	1.05	Applicable for
Chairperson	Dean (Acad. Matters)	Date of Release	Version	AY 2022-23 Onwards



Mechanical Engineering

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Seventh Semester														
1	7	PC	ME2401	Automation In Production	T	3	0	0	3	3	30	20	50	3
2	7	PC	ME2402	Lab:- Automation In Production	P	0	0	2	2	1		60	40	
3	7	PE		Professional Elective II	T	3	0	0	3	3	30	20	50	3
4	7	PE		Professional Elective III	T	3	0	0	3	3	30	20	50	3
5	7	PE		Lab:- Professional Elective III	P	0	0	2	2	1		60	40	
6	7	PE		Professional Elective IV	T	3	0	0	3	3	30	20	50	3
7	7	PE		Professional Elective V	T	3	0	0	3	3	30	20	50	3
8	7	STR	ME2409	Mini Project	P	0	0	4	4	2		60	40	
9	7	STR	ME2410	Campus Recruitment Training (CRT)	P	0	0	0	0	2		100		
TOTAL						15	0	8	23	21				

Professional Electives -II

1	7	PE-II	ME2411	PE II : Tool Design
2	7	PE-II	ME2412	PE II : Additive Manufacturing
3	7	PE-II	ME2413	PE II : Fuel Cell Technology
4	7	PE-II	ME2414	PE II : Refrigeration and Air Conditioning
5	7	PE-II	ME2415	PE II : Material Handling Systems
6	7	PE-II	ME2416	PE II : Reliability Engineering
7	7	PE-II	ME2417	PE II : Advanced Manufacturing Techniques
8	7	PE-II	ME2418	PE II : Optimization Techniques

Professional Electives -III

9	7	PE-III	ME2421	PE III : Vibration
10	7	PE-III	ME2422	PE III : Lab:- Vibration
11	7	PE-III	ME2423	PE III : Computer Aided Design and Manufacturing
12	7	PE-III	ME2424	PE III : Lab:- Computer Aided Design and Manufacturing
13	7	PE-III	ME2425	PE III : Vehicle Engineering
14	7	PE-III	ME2426	PE III : Lab:- Vehicle Engineering
15	7	PE-III	ME2427	PE III : Solar Energy and It'S Utilisation
16	7	PE-III	ME2428	PE III : Lab:- Solar Energy and It'S Utilisation
17	7	PE-III	ME2429	PE III : CNC & Robotics
18	7	PE-III	ME2430	PE III : Lab:- CNC & Robotics
19	7	PE-III	ME2433	PE III :Pipe Design Engineering
20	7	PE-III	ME2434	PE III : Lab:- Pipe Design Engineering
21	7	PE-III	ME2435	PE III : Earth Moving Equipments
22	7	PE-III	ME2436	PE III : Lab:- Earth Moving Equipments

Professional Electives -IV

23	7	PE-IV	ME2441	PE IV : Synthesis of Mechanism
24	7	PE-IV	ME2442	PE IV : Design for Manufacturing & Assembly
25	7	PE-IV	ME2443	PE IV : Renewable Energy System
26	7	PE-IV	ME2444	PE IV : Engineering of Plastics
27	7	PE-IV	ME2445	PE IV : Finance & Cost Management
28	7	PE-IV	ME2446	PE IV : Artificial Intelligence
29	7	PE-IV	ME2447	PE IV : Maintenance Management
30	7	PE-IV	ME2448	PE IV : Total Quality Management
31	7	PE-IV	ME2449	PE IV : Project Evaluation & Management

Professional Electives -V

32	7	PE-V	ME2461	PE V : Stress Analysis
33	7	PE-V	ME2462	PE V : Product Design and Development
34	7	PE-V	ME2463	PE V : Power Plant Engineering
35	7	PE-V	ME2464	PE V : Value Engineering
36	7	PE-V	ME2465	PE V : Design of Experiments and Taguchi Methods
37	7	PE-V	ME2466	PE V : Industrial Safety
38	7	PE-V	ME2467	PE V : Control System Engineering
39	7	PE-V	ME2468	PE V : Tribology
40	7	PE-V	ME2469	PE V : Turbines

MSEs* = Two MSEs of 15 Marks each will conducted and marks of these 2 MSEs will be considered for Continuous Assessment

TA = for Theory : 5 marks on lecture quizzes, 11 marks on TA2-TA4 activities decided by course teacher, 4 marks on class attendance**

TA = for Practical : MSPA will be 15 marks each**

		June 2022	1.05	Applicable for AY 2022-23 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering
(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
B.TECH SCHEME OF EXAMINATION 2020-21
(Revised Scheme of Examination w.e.f. 2022-23 onward)

SoE No.
ME-202.1

Mechanical Engineering

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Eighth Semester														
1	8	STR	ME2451	Major Project	P	0	0	12	12	9		60	40	
2	8	STR	ME2452	Extra curricular Activity Evaluation	P	0	0	0	0	1		100		
TOTAL						0	0	12	12	10				
GRAND TOTAL						87	0	44	132	163				

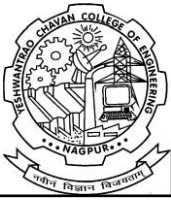
MSEs* = Two MSEs of 15 Marks each will conducted and marks of these 2 MSEs will be considered for Continuous Assessment

TA ** = for Theory : 5 marks on lecture quizzes, 11 marks on TA2+TA4 activities decided by course teacher, 4 marks on class attendance

TA = for Practical : MSPA will be 15 marks each**

		June 2022	1.05	Applicable for AY 2022-23 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	

Electrical Engineering



Nagar Yuwak Shikshan Sanstha's

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Department of Electrical Engineering

Date: 10/02/23

Minutes of 31st BoS Meeting dated on Saturday 28th January 2023

31st Meeting of BoS of Electrical Engineering was held on Saturday 28th January 2023.

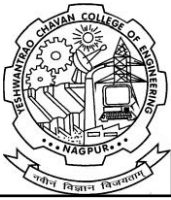
It was chaired by Dr.S.G.Kadwane, Chairman BoS. Following members were present.

S.N.	Name	S.N.	Name
1	Dr.S.G.Kadwane	20	Dr.S.R.Gaigowal
2	Dr.R.M.Moharil	21	B.S.Sudame
3	Dr.P.M.Meshram	22	S.L.Tiwari(Tripathi)
4	Dr.S.P.Adhau	23	P.B.Joshi
5	R.N.Nagpure	24	U.V.Waghmare
6	Dr.S.S.Gokhale	25	R.S.Khonde
7	Dr.B.Y.Bagde	26	S.K.Mohod(Bhojar)
8	Dr.A.P.Munshi	27	Dr.Sarika.D.Patil
9	P.S.Patil	29	Akshay.D.Kadu
10	Dr.S.P.Gawande	29	Nivedita S.Padole
11	S.B.Rewatkar(Kewte)	31	Surabhi L.Kachhawa
12	T.D.Tembhekar(Sakhare)	31	Shweta S.Ghadyalji
13	N.T.Sahu(Shrirao)	32	Anuradha A. Munshi
14	Xma R.Pote	33	Priya Gaikwad
15	A.S.Lilhare	34	Abhishek Joshi
16	V.R .Doifode	35	Priya Jagdale
17	J.M.Kumbhare(Dhakate)		
18	G.C.Gondhalekar		
19	P.S.Shete		

Name	Name
Dr.S.S.Ambekar	Er.Rahul Nagpure
Dr.V.S.Kale	Er.Pravin Palkar
Dr.Ritesh Kesri	

Following members has been permitted leave of absence

1. Dr.V.S.Kale
2. Er.Rahul Nagpure
3. Er.Pravin Palkar



Department of Electrical Engineering

Minutes of 31st BoS Meeting

Agenda No. 31.01

Welcome of new members

Dr S.G.Kadwane welcomed all BoS experts viz., Dr. S.S.Ambekar Professor, Department of Electrical Engineering, KDKCOE, Nagpur, Dr. Ritesh Keshri, Associate Professor, Department of Electrical Engineering, VNIT, Nagpur. Departmental BoS members have also been welcomed by the Chairman.

Agenda No. 31.02

Installation of member Secretary

It has been decided to retain Mrs. Xma R.Pote as Member Secretary BoS for the session 2022-23.

Agenda No. 31.03

Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.

The minutes of previous meeting no. 30 held on Saturday 4th August 2022 were already circulated to all members. The ATR of previous meeting have been discussed with BoS members. (Annexure 31.03). After confirmation, Chairman asked to accept the minutes of meeting. Dr. S. P Adhau accepted the minutes. Ms. S. L. Tiwari seconded it. The minutes were then accepted.

Agenda No. 31.04

To discuss and suggest the action taken on

- **Co/Po attainment of subjects taught in previous semester.** (Annexure 31.04)

The complete process of CO/PO attainment has been discussed with the BoS Experts. The experts appreciated and approved the process of attainment. Based on direct and indirect assessment, it is observed that all PO's and PSO's almost meet the attainment expectations. However, efforts will be taken to maintain this attainment in future.

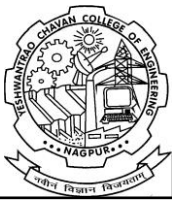
The sample table format is as follows:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Target attainment %	2.64	2.34	2.27	1.49	2.03	1.51	2.02	1.73	2.08	2.02	2.18	2.17	2.18	2.09
Attainment % (Achieved)	2.18	1.88	1.85	1.15	1.77	1.16	1.73	1.55	1.78	1.81	1.87	1.88	1.80	1.68
%	82.69	80.3	81.3	76.8	87.3	76.8	85.4	89.7	85.2	89.26	85.77	86.63	82.54	80.34

- **Result analysis of subjects taught in previous semester.**

The overall and subject wise result analysis of Odd Term 2022-23 has been shown to the BoS Experts. Experts appreciated the efforts taken by the faculty for such good results.

S.N.	Semester	Pass %
1	V	66.03
2	VII	76.22

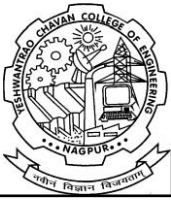
**Department of Electrical Engineering****• Stake holders' feedback on review and design of curriculum**

S.N.	Stakeholder	Feedback	Action Taken
1.	Parent	1. Some basic programming language to be taught at Second year level 2. Extra initiatives regarding bright students	1. The subjects will be included in Scheme 2022 for 3 rd and 4 th Semester students 2. COURSERA has been started from Session Even 21-22.
2	Alumni	1. Course related to recent technology or innovations to be included.	1. The subject of Introduction to Smart Cities will be included for students
		2. Courses which will help the students to work in industry to be offered.	2. The subject Project planning and Industrial safety will be added in Odd Semester Session 23-24
3	Student	Topics related to applications of theory being studied to be covered.	Value added courses are conducted and will be conducted in next semester also.
4	Faculty	New subjects to be added as professional electives	The subjects including contents based on Microgrid and Grid integration will be included

• In Sem, End Sem and Exit feedback on Teaching Lear & curriculum.

All feedback has been discussed with BoS Experts.

Semester	Number of faculty with feedback more than 90%	No. of faculty with feedback more than 80%	No. of faculty with feedback less than 80% and greater than 60%	No. of faculty with feedback less than 60%
	End Sem	End Sem	End Sem	End Sem
V	04/11	07/11	NIL	NIL
VII	11/13	04/13	NIL	NIL



Department of Electrical Engineering

Agenda No. 31.05

1. To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2020 & B.Tech 2022) of the Undergraduate and Post graduate programs conducted under the Board.

All members were asked if any further correction or amendment was required to be done in the scheme of examination of the Undergraduate and Post graduate programs.

- Professional electives to be added in SoE 2020.(Annexure 31.05)
- SoE B.Tech 2022 was presented in the previous meeting and confirmed.

2. To approve and ratify SoE22 and all syllabi of B.Tech and M.Tech I & II year .

Curriculum Development workshop was conducted on Wednesday 20th July 2022 for validation of SoE 22 and all syllabi of both B.Tech and M.Tech, I & II year . Validation of the syllabus was carried out as per thrust area of curriculum by experts of various domain. The SoE and syllabi of all courses has been approved and validated after thorough discussions.

Agenda No. 31.06

To discuss and suggest the minor changes in the syllabi of various courses in B.Tech 2020 Schemes of Undergraduate and Post graduate programs conducted under the Board.

All members were asked if any further correction or amendment was required to be done in the syllabus of various courses in B.Tech 2020 Scheme of Undergraduate and Post graduate programs. The following proposal has been forwarded:

1. New Professional Elective: It has been decided to offer following professional electives

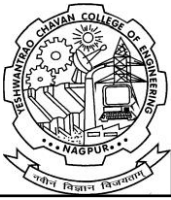
SN	Semester	Name of Subject
1	6	PEI: Grid Integration of Renewable Energy
2	6	PEI: Switched Mode Power Supply
3	7	PEII: Micro Grid
4	7	PEIII: Converters and Configurations of Renewable Energy Systems
5	7	PEIII: Distributed Generation in power System
6	7	PEIV: Industrial Safety
7	7	PEIV: Project Planning

The BoS experts approved to run the said elective courses from coming odd session 22-23 and asked to incorporate the modification in the syllabus. (Annexure 31.06)

Agenda No. 31.07

To discuss and suggest the changes in the books/Reference Books/Literature Sources published in the syllabi of courses in various Schemes of undergraduate and Postgraduate Programs.

No corrections and amendments were proposed by any members in the books/Reference Books/Literature Sources published in the syllabi of courses in various Schemes of Undergraduate and Post Graduate programs



Department of Electrical Engineering

Agenda No. 31.08

To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under-Graduate and Post Graduate programs.

All members were asked if any correction or amendment was required to be done in the list of experiments Autonomous 2018 Schemes of Undergraduate and Post graduate programs of Undergraduate and Post graduate programs.

No corrections and amendments were proposed by any members in the laboratory courses of Under-Graduate and Post Graduate programs

Agenda No. 31.09

To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board.

The chairman asked to suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs for further submission to Academic Council.

No suggestions were proposed by any members.

Finally, it was unanimously resolved that the existing Academic Regulations governing the Undergraduate and Post graduate programs be continued without any corrections.

Agenda No. 31.10

To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.

Professional Elective I: Programming in C for beginners (6th Semester) to be added was suggested by Mr. B. S. Sudame. It was presented and accepted by BoS members.

(Annexure 31.10)

Agenda No. 31.11

To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Odd Term 2022-23

The panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Even Term 2022-23 will be decided after the notification received from CoE.

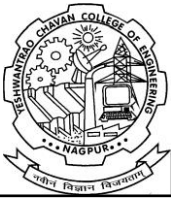
Agenda No. 31.12

To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Odd Term 2022-23.

The list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Even Term 2022-23 will be decided after the notification received from CoE.

Agenda No. 31.13

To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination Odd 2022-23.



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Department of Electrical Engineering

The panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination Even 2022-23 will be decided after the notification received from CoE.

Agenda No. 31.14

Preparation of Electronic question Bank UG courses according to SoE 2018.

To review solutions to all questions of Electronic Question Banks for all courses.

Following is the account of EQB with solution available

Status of EQB and Solution

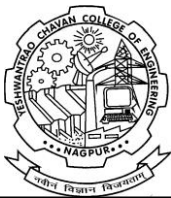
Total Core Courses of Department : 14

Total Professional Elective courses: 04 (PE I -IV)

Sr.No	Semester	Course Code	Title of the course	Type of course PC/PE	Remarks (Ready/Partially complete)	
					EQB	Solution
1	3	EL2201	Analog Electronics	PC	Ready	Ready
2	3	EL2203	Electrical Machines	PC	Ready	Ready
3	3	EL2205	Network Analysis	PC	Ready	Partially complete
4	3	EL2207	Electrical Measurement & Instrumentation	PC	Ready	Ready

Sr.No	Semester	Course Code	Title of the course	Type of course PC/PE	Remarks	
					EQB	Solution
1	4	EL2251	Electrical Machines in Power System	PC	Ready	Ready
2	4	EL2253	Electrical Energy Generation System	PC	Ready	Partially complete
3	4	EL2255	Electric & Magnetic Fields	PC	Ready	Ready
4	4	EL2257	Microprocessor	PC	Ready	Ready
5	5	EL2301	Power Electronics	PC	Ready	Ready
6	5	EL2303	Fundamentals of Power System	PC	Ready	Ready
7	5	EL2304	Electrical Drives	PC	Ready	Ready

Keshav



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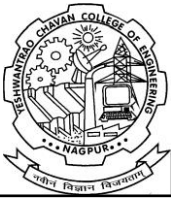
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Department of Electrical Engineering

S.N	Semester	Course Code	Title of the course	Type of course PC/PE	Remarks	
					EQB	Solution
1	6	EL2351	Control System	PC	Ready	Ready
2	6	EL2353	Power System Analysis	PC	Ready	Partially complete
3	6	EL2361	PEI:Advanced Power Electronics	PE	Ready	Partially complete
4	6	EL2362	PEI:Electrical Distribution in Power System	PE	Ready	Ready
5	6	EL2363	PEI: Illumination Engineering (MOOC)	PE	Ready	Partially complete
6	6	EL2364	PEI:Electric Vehicles	PE	Ready	Ready
7	6	EL2365	PEI:Electric Power Utilization	PE	Ready	Partially complete

S.N	Semester	Course Code	Title of the course	Type of course PC/PE	Remarks	
					EQB	Solution
1	7	EL2401	Switchgear & Protection	PC	Ready	Ready
2	7	EL2403	High Voltage Engineering	PC	Ready	Ready
3	7	EL2411	PEII: Fundamentals of Power Quality	PE	Ready	Ready
4	7	EL2412	PEII:Electrical Installation Design	PE	Ready	Partially complete
5	7	EL2413	PEII:Electrical Machine Design	PE	Ready	Ready
6	7	EL2421	PEII: Power System Operation and Control	PE	Ready	Ready
7	7	EL2426	PEII: Sensors and Actuators	PE	Ready	Ready
8	7	EL2422	PEIII:FACTS Devices	PE	Ready	Ready
9	7	EL2423	PEIII: Electrical Energy Management and Audit	PE	Ready	Partially complete
10	7	EL2424	PEIII:Advanced Control System	PE	Ready	Ready
11	7	EL2425	PEIII:Artificial Intelligence Based System	PE	Ready	Ready
12	7	EL2431	PEIV:Advanced Electrical Drives	PE	Ready	Partially complete

**Department of Electrical Engineering**

13	7	EL2432	PEIV:Fundamentals of Smart Grid	PE	Ready	Partially complete
14	7	EL2433	PEIV:Computer Methods in Power System	PE	Ready	Ready
15	7	EL2434	PEIV:EHVAC-HVDC Transmission	PE	Ready	Ready

Agenda No. 31.15

To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses.

No suggestions were proposed by any members.

Finally, it was unanimously resolved that the existing Evaluation Process for theory and other courses be continued without any corrections.

Agenda No. 31.16

To discuss and propose scheme for Minor and Honor course and its syllabus.

To Discuss and propose Certificate courses and value-added courses in 2022-23.

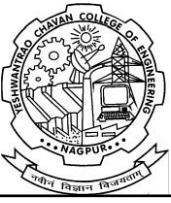
- Minor changes in syllabus of Honor course of Microgrid Technologies are suggested
- Minor changes in syllabus of Minor course of Electric Vehicles are suggested

STATUS OF CERTIFICATE & VALUE-ADDED COURSES conducted BY DEPARTMENTS in ODD AY 22-23

SN	Dept.	TITLE OF COURSE	Sem	COURSE HOURS	MODE OF TRAINING	DATES OF CONDUCTION & TOTAL HOURS IN COURSE	Number of Students attended the CERT / VAC	Remarks
1	EL	Electrical and Electronic measuring devices	3	35	Offline	4 January -4 February 2023	55	
2	EL	Industrial safety and protective devices	3	35	Offline	2 January -2 February 2023	62	

PLANNING OF CERTIFICATE & VALUE ADDED COURSES Planned BY DEPARTMENTS IN EVEN AY 22-23

SN	Deptt.	TITLE OF COURSE	Sem	COURSE HOURS	MODE OF TRAINING	Proposed DATES OF CONDUCTION & TOTAL HOURS IN COURSE	No of Students Expected to attend CERT / VAC	Remarks
1	EL	Substation design and planning	6	35	Offline	February to March 2023	40	
2	EL	Diesel Generator and Protection	4	35	Offline	May to June 2023	35	
3	EL	Testing and Maintenance of Electrical equipments	4	35	Offline	May to June 2023	35	



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Department of Electrical Engineering

Agenda No. 31.17

Any other matter with the permission of the Chair.

All suggestions have been welcomed and forwarded for further submission to Academic Council. The meeting ended with thanks to Chair.

Mrs. Xma R.Pote
BoS Member Secretary
Dept. of Electrical Engineering

Dr.S.G.Kadwane
Head and Chairman
Dept. of Electrical Engineering



Electrical Engineering

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
TOTAL FIRST & SECOND SEM										47				
Third Semester														
1	3	BS	GE2201	Engineering Mathematics III	T	3	0	0	3	3	30	20	50	3 Hours
2	3	PC	EL2201	Analog Electronics	T	3	0	0	3	3	30	20	50	3 Hours
3	3	PC	EL2202	Lab. : Electronics Engineering Workshop	P	0	0	2	2	1		60	40	
4	3	PC	EL2203	Electrical Machines	T	4	0	0	4	4	30	20	50	3 Hours
5	3	PC	EL2204	Lab.:Electrical Machines	P	0	0	2	2	1		60	40	
6	3	PC	EL2205	Network Analysis	T	3	0	0	3	3	30	20	50	3 Hours
7	3	PC	EL2206	Lab.:Computer Programming	P	0	0	2	2	1		60	40	
8	3	PC	EL2207	Electrical Measurement & Instrumentation	T	3	0	0	3	3	30	20	50	3 Hours
9	3	PC	EL2208	Lab.:Electrical Measurement & Instrumentation	P	0	0	2	2	1		60	40	
TOTAL						16	0	8	24	20				

Fourth Semster														
1	4	BS	GE2204	Advance Mathematical Techniques	T	3	0	0	3	3	30	20	50	3 Hours
2	4	PC	EL2251	Electrical Machines in Power System	T	3	0	0	3	3	30	20	50	3 Hours
3	4	PC	EL2252	Lab.:Electrical Machines in Power System	P	0	0	2	2	1		60	40	
4	4	PC	EL2253	Electrical Energy Generation System	T	3	0	0	3	3	30	20	50	3 Hours
5	4	PC	EL2254	Lab.:Renewable Energy System	P	0	0	2	2	1		60	40	
6	4	PC	EL2255	Electric & Magnetic Fields	T	3	0	0	3	3	30	20	50	3 Hours
7	4	PC	EL2256	Lab.:Electrical Engineering Workshop	P	0	0	2	2	1		60	40	
8	4	PC	EL2257	Microprocessor	T	3	0	0	3	3	30	20	50	3 Hours
9	4	PC	EL2258	Lab.:Microprocessor	P	0	0	2	2	1		60	40	
10	4	PC	EL2259	Signals & Systems	T	4	0	0	4	4	30	20	50	3 Hours
TOTAL						19	0	8	27	23				

List of Audit Courses														
1	3	HS	GE2121	Env Studies for 3 Sem. EL,ET,CT	A	3	0	0	3	0				
2	3	HS	AU2123	YCCE Communication Aptitude Preparation (YCAP3)	A	3	0	0	3	0				
3	4	HS	AU2125	YCCE Communication Aptitude Preparation (YCAP4.2) for EL,EE,ET	A	3	0	0	3	0				

MSEs* = Two MSEs of 15 Marks each will conducted and marks of these 2 MSEs will be considered for Continuous Assessment

TA = for Theory : 5 marks on lecture quizzes, 11 marks on TA2+TA4 activitied decided by course teacher, 4 marks on class attendance**

TA = for Practical : MSPA will be 15 marks each**

		June 2022	1.05	Applicable for AY 2022-23 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



Electrical Engineering

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Fifth Semester														
1	5	HS	GE2312	Fundamental of Economics	T	3	0	0	3	3	30	20	50	3 Hours
2	5	PC	EL2301	Power Electronics	T	3	0	0	3	3	30	20	50	3 Hours
3	5	PC	EL2302	Lab.:Power Electronics	P	0	0	2	2	1		60	40	
4	5	PC	EL2303	Fundamentals of Power System	T	3	0	0	3	3	30	20	50	3 Hours
5	5	PC	EL2304	Electrical Drives	T	3	0	0	3	3	30	20	50	3 Hours
6	5	PC	EL2305	Lab.:Electrical Drives	P	0	0	2	2	1		60	40	
7		OE		Open Elective - I *	T	3	0	0	3	3	30	20	50	3 Hours
8	5	OE		Open Elective - II *	T	3	0	0	3	3	30	20	50	3 Hours
TOTAL						18	0	4	22	20				

Audit Courses														
1	5	HS	AU2127	YCCE Communication Aptitude Preparation (YCAP5.2) for EL,EE,ET	A	3	0	0	3	0				

Open Electives - I

1	5	OE	EL2311	OEI:Renewable Energy Generation System
2	5	OE	EL2312	OEI:Electrical Machines and their Applications
3	5	OE	EL2313	OEI:Testing and Maintenance of Electrical Machines
4	5	OE	EL2314	OEI: Solar power plant design and Installation

Open Electives -II

4	5	OE	EL2321	OEII:Electrical Energy Audit and Safety
5	5	OE	EL2322	OEII:Utilization of Electrical Energy
6	5	OE	EL2323	OEII:Power System Engineering

MSEs* = Two MSEs of 15 Marks each will conducted and marks of these 2 MSEs will be considered for Continuous Assessment

TA ** = for Theory : 5 marks on lecture quizzes, 11 marks on TA2+TA4 activitied decided by course teacher, 4 marks on class attendance

TA = for Practical : MSPA will be 15 marks each**

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Electrical Engineering

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Sixth Semester														
1	6	HS	GE2311	Fundamental of Management	T	3	0	0	3	3	30	20	50	3 Hours
2	6	PC	EL2351	Control System	T	3	0	0	3	3	30	20	50	3 Hours
3	6	PC	EL2352	Lab.:Control System	P	0	0	2	2	1		60	40	
4	6	PC	EL2353	Power System Analysis	T	3	0	0	3	3	30	20	50	3 Hours
5	6	PE		Professional Elective I	T	3	0	0	3	3	30	20	50	3 Hours
6	6	PE	EL2354	Lab.:Simulation of Power Electronics & Power System	P	0	0	2	2	1		60	40	
7	6	OE		Open Elective III *	T	3	0	0	3	3	30	20	50	3 Hours
8	6	OE		Open Elective IV *	T	3	0	0	3	3	30	20	50	3 Hours
9	6	PC	EL2355	Lab.:Substation Design	P	0	0	2	2	1		60	40	
10	5/6	STR	EL2360	Industry Visit and its report	P	0	0	0	0	1		60	40	
TOTAL						18	0	6	24	22				

Professional Electives - I

1	6	PE	EL2361	PEI:Advanced Power Electronics
2	6	PE	EL2362	PEI:Electrical Distribution in Power System
3	6	PE	EL2363	PEI:Illumination Engineering (MOOC)
4	6	PE	EL2364	PEI:Electric Vehicles
5	6	PE	EL2365	PEI:Electric Power Utilization

Open Electives -III

6	6	OE	EL2371	OEIII:Renewable Energy Generation System
7	6	OE	EL2372	OEIII:Electrical Machines and their Applications
8	6	OE	EL2373	OEIII:Testing and Maintenance of Electrical Machines
9	6	OE	EL2374	OEIII:Solar power plant design and Installation

Open Electives -IV

10	6	OE	EL2381	OEIV:Electrical Energy Audit and Safety
11	6	OE	EL2382	OEIV:Utilization of Electrical Energy
12	6	OE	EL2383	OEIV:Power System Engineering

Audit Courses

1	6	HS	AU2128	YCCE Communication Aptitude Preparation (YCAP6.1) for CV,EL	A	3	0	0	3	0				
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MSEs* = Two MSEs of 15 Marks each will conducted and marks of these 2 MSEs will be considered for Continuous Assessment

TA ** = for Theory : 5 marks on lecture quizzes, 11 marks on TA2+TA4 activities decided by course teacher, 4 marks on class attendance

TA = for Practical : MSPA will be 15 marks each**

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Chairperson	Dean (Acad. Matters)	Date of Release	Version	



Electrical Engineering

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Seventh Semester														
1	7	PC	EL2401	Switchgear & Protection	T	3	0	0	3	3	30	20	50	3 Hours
2	7	PC	EL2402	Lab.:Switchgear & Protection	P	0	0	2	2	1	60	40		
3	7	PC	EL2403	High Voltage Engineering	T	3	0	0	3	3	30	20	50	3 Hours
4	7	PC	EL2404	Lab.:High Voltage Engineering	P	0	0	2	2	1	60	40		
5	7	PE		Professional Elective II	T	3	0	0	3	3	30	20	50	3 Hours
6	7	PE		Professional Elective III	T	3	0	0	3	3	30	20	50	3 Hours
7	7	PE		Professional Elective IV	T	3	0	0	3	3	30	20	50	3 Hours
8	7	STR	EL2409	Mini Project	P	0	0	4	4	2	60	40		
9	7	STR	EL2410	Campus Recruitment Training (CRT)	P	0	0	0	0	2	100			
TOTAL						15	0	8	23	21				

Professional Electives -II

1	7	PE	EL2411	PEII: Fundamentals of Power Quality
2	7	PE	EL2412	PEII:Electrical Installation Design
3	7	PE	EL2413	PEII:Electrical Machine Design
4	7	PE	EL2421	PEII: Power System Operation and Control
5	7	PE	EL2422	PEII: Sensors and Actuators

Professional Electives -III

5	7	PE	EL2422	PEIII:FACTS Devices
6	7	PE	EL2423	PEIII: Electrical Energy Management and Audit
7	7	PE	EL2424	PEIII:Advanced Control System
8	7	PE	EL2425	PEIII:Artificial Intelligence Based System

Professional Electives -IV

9	7	PE	EL2431	PEIV:Advanced Electrical Drives
10	7	PE	EL2432	PEIV:Fundamentals of Smart Grid
11	7	PE	EL2433	PEIV:Computer Methods in Power System
12	7	PE	EL2434	PEIV:EHVAC-HVDC Transmission

Coursera Electives

1	6	PE	EL2366	PEI:Energy Production, Distribution and Safety
1	7	PE	EL2435	PEIV: Power Electronics Specialization

MSEs* = Two MSEs of 15 Marks each will conducted and marks of these 2 MSEs will be considered for Continuous Assessment

TA ** = for Theory : 5 marks on lecture quizzes, 11 marks on TA2+TA4 activitied decided by course teacher, 4 marks on class attendance

TA = for Practical : MSPA will be 15 marks each**

		June 2020	1.04	Applicable for AY 2020-21 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	





Electrical Engineering

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours	
						L	T	P	Hrs		MSEs*	TA**	ESE		
Eighth Semester															
1	8	STR	EL2451	Major Project	P	0	0	12	12	9		60	40		
2	8	STR	EL2452	Extra curricular Activity Evaluation	P	0	0	0	0	1		100			
TOTAL						0	0	12	12	10					
GRAND TOTAL						86	0	46	132	163					

MSEs* = Two MSEs of 15 Marks each will conducted and marks of these 2 MSEs will be considered for Continuous Assessment

TA = for Theory : 5 marks on lecture quizzes, 11 marks on TA2+TA4 activitied decided by course teacher, 4 marks on class attendance**

TA = for Practical : MSPA will be 15 marks each**

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Electronics Engineering



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Department of Electronics Engineering

Boards of Studies in Electronics Engineering

Minutes of the Meeting No. 32

Meeting No. 32,

Date: 28th January 2022

Meeting no. 32 of the Board of Studies in Electronics Engineering was held on 25th January 2023 at 11.00 A.M. in Electronics Engineering department library.

The meeting was attended by the following members of BoS.

- | | | |
|------------------------|-----------------------------|------------------------|
| 1. Dr.N.K.Chaudhary | 12. Dr.Mrs. P. P. Palsodkar | 23. Ms.P.R.Chaudhari |
| 2. Mr.Amarendran Akre | 13. Dr.Mrs.R. S. Balpande | 24. Dr. Mrs.T.G.Panse |
| 3. Dr.P.R.Deshmukh | 14. Dr.Mrs. M.N. Kalbande | 25. Dr.P.A.Maturkar |
| 4. Dr. R. D. Thakare | 15. Dr.Mr.P.M. Palsodkar | 26. P.D.Gawande |
| 5. Dr.Pradnya P. Zode | 16. Dr.Ms.A.D.Tijare | 27. Prof.M.S.Pawar |
| 6. Dr.P.T.Karule | 17. Ms. P.A. Jadhav | 28. Dr.Y.A.Suryawanshi |
| 7. Dr. P. P. Zode | 18. Mr. K.G.Pande | |
| 8. Dr.A.S.Khobragade | 19. Mr.A.B.Thatere | |
| 9. Dr.S.V.Rathkantiwar | 20. Mr.V.D. Alagdeve | |
| 10. Mr. A. V. Gokhale | 21. Mr. A.A.Peshettiwar | |
| 11. Dr.U.S.Ghodeswar | 22. Dr.Mrs.Y.A.Gaidhani | |

Leave of absence was granted to

1. Dr.S.B.Badjate
2. Mr.R.A.Deshmukh
3. Mrs.S.A.Dhondse

BOS 32

	4	3	2 1 0 8	3	2 1 0 8														2	1 4 0 5									
	5							3	1 9 5				1	0 6 5					2	1 3									
EE2423P E IV: RF and Microwa ve/ EE2424L ab: PE IV: RF and Microwa ve	1	2	1 5 3 3	3	2 3		3	2 3				2	1 5 3 3	2	1 5 3 3	2	1 5 3 3												
	2		1 5 2 9	3	2 9		3	2 9				2	1 5 2 9	2	1 5 2 9	2	1 5 2 9												
	3	1	1	2	2		3	3				2	2	2	2	2	2												
	4	3	2 6 9	3	2 6 9		3	2 6 9				2	1 7 9 3	2	1 7 9 3	2	1 7 9 3												
EE2425/ EE2426 PE IV: Analo g VLSI Design/L ab: PE IV: Analog VLSI Design	1	2	1 7 9 3	3	2 6 9	1	2 7 9 3	1	0 8 9 7	3	2 6 9		1	8 9 7	2	1 8 9 7	1	8 9 7	1	8 9 7	1	8 9 7	0 8 9 7	1 7 9 3	1 8 9 7	0 8 9 7			
	2	2	8 6 2	3	7 9 3	2	8 6 2	1	9 3 2	3	7 9 3		1	9 3 1	2	8 6 2	1	9 3 1	1	9 3 1	2	8 6 2	1 9 3 1	2 8 6 2	1 9 3 1	0 8 9 7			
	3	2	2	3	3	2	2	1	1	3	3		1	1	2	2	1	1	1	1	1	1	1	1	1	1	1		
	4	2	2	2	2	2	2	1	1	3	3		2	2	2	2	1	1	1	1	1	1	1	1	1	1	1		
	5	2	2	2	2	2	2	2	2	1	6	3	3	1	6	3	3	1	6	3	3	1	6	3	3	1	6	3	
EE2429P E IV: Operatin g Systems/ EE2430L ab: PE IV: Operatin g Systems	1	2	0 6	2	0 6	1	0 6	1	0 3																				
	2	3	1 7 6	2	1 4 5 1	2	1 4 5 1	2	4 5 1																				
	3	2	8 8 2	2	8 8 2	2	8 8 2	2	8 8 2																				
	4	3	3	2	2	1	1	1	1																				
	5	3	3	3	3	3	3	2	2																		2	2	2
EE2432P E V: Nano Electroni cs	1	2	0 8 6 7																								1	0 4 3 3	
	2	2	1 0 6 7	2	1 0 6 7																						2	1 0 6 7	
	3	2	1 5	2	1 5																						2	1 5	
	4	1	1																								2	2	
EE2433P E V: Optical Commun ication	1	2	1 0 2	3	1 5 2 9	2	1 0 2							2	1 0 2												1	0 5 1	
	2	2	2	2	2	2	2	2					3	3													1	1	
	3	2	1 2 5	2	1 2 5	3	1 8 8						2	1 2 5													2	1 2 5	

EE2435P E-V: RF Circuit Design	4	2	1 3 6 7	5 2 3 7	5 2 3 7	2 2 3 7					5 1 3 6 7							0 6 8 3			
	1	3	2 3 5 3	1 2 5 9	1 2 5 9	1 2 5 9					1 0 7 8 4										
	2	3	1 7 6	2 4 1	2 4 1	2 4 1					1 1 7 2 5										
	3	3	2 6 4 7	1 7 6 5	1 7 6 5	1 7 6 5					1 8 8 2										
	4	3	3 2 2 2	2 2 2 2	2 2 2 2	2 2 2 2					1 1										
	1	2	1 0 2	2 0 2	2 0 2	2 0 2	2 0 2				2										
	2	3	3 3 2	2 2 2	2 2 2	2 2 2	2 2 2				2										
	3	3	1 0 5 9	1 0 5 9	1 0 5 9	1 0 5 9	0 7 0 6				2										
	4	2	1 6 4 7	2 3 4 7	2 3 4 7	2 3 4 7	1 6 4 7				2										
	EE2442P E-VI: MEMS	1	2	1 0 2	1 0 2	3 5 2 9					2	1 0 2									
2		3	2 4 7 1	1 2 6 4	1 2 6 4	2 6 4 7				3	2 4 7 1										
3		2	0 7 0 6	1 3 0 5 9	1 2 7 0 6					2	0 7 0 6										
4		2	1 5	1 2 5	1 2 5					2	1 5										
EE2443P E-VI: Biomed ical Instrume ntation	1	2	2 3	3 3	3 3	2 2															
	2	3	1 0 5 9	1 0 5 9	2 7 5 6	2 7 0 6															
	3	2	1 7 6 5	1 7 6 5	1 8 8 2	2 3 6 4 7															
	4	2	2 1	1 1	2 2 2	2 2															
EE2445P E-VI: Compute r Organiza tion	1	2	1 0 5 9	1 0 5 9	0 1 5 2 9						2	1 0 5 9						1 5 8 8			
	2	3	3 3	3 3	3 3	1 1					2	2						3 3			
	3	3	3 3	3 3	3 3	2 2					2	2						3 3			
	4	3	3 3	3 3	3 3						2	2						3 3			
PE-VI: IRSIP	3	2						1	1					1							
	3	2						1	1					1							
	2	3			2	1		2	1					1				1			

iii) Stake holders feedback on review and design of curriculum

Sr. No.	Stack Holders	Feedback	Action taken
1	Employers	Practical knowledge should be high as per industry requirements. Students should have knowledge about work culture in Industry.	<ul style="list-style-type: none"> Guest lecture was organized for students by industry person.
2	Alumni	The Text Book knowledge that was provided through the curriculum and the technologies we work in our companies are totally different.	<ul style="list-style-type: none"> VAC/CC on recent technologies and Hand on sessions in different areas were conducted. VLSI Design, Bluetooth controlled bot, Python programming, its applications and data science, Graphics programming etc.
3	Parent	More awareness should be created about how to apply for internships.	Dr. S.V. Rathkantiwar. Dean IRO explained the process and assured to create more awareness among students
		More efforts should be taken for placements	The parents were informed about the eligibility criteria of students. Guest lecture on aptitude development was conducted for students
		Industrial visit to more reputed companies should be conducted	The industrial visit in charge was informed about the same and accordingly more visits will be planned ahead.
4	Students	More number of Industrial Visit should be planed	4 Industrial visits were organized till date.


iv) In Sem, End Sem and Exit feedback on Teaching Learning & curriculum


Semester	No. of faculty with feedback more than 90%		No. of faculty with feedback more than 80%		No. of faculty with feedback less than 80% and greater than 60%	
	IN SEM	END SEM	IN SEM	END SEM	IN SEM	END SEM
V	2/14	10/14	11/14	4/14	1/14	Nil
	14.28%	71.42%	78.57%	28.57%	7.15%	Nil
VII	16/17	7/9	1/17	2/9	Nil	Nil
	94.11%	77.77%	5.88%	22.22%	Nil	Nil

31.05	<p>To discuss and suggest the changes in the Scheme of Examination (known as Autonomous B.Tech 2020 & SoE 2022) of the Undergraduate under the Board. To approve and ratify SoE22 and all syllabi of B.Tech I & II year</p> <ul style="list-style-type: none"> SoE22 for Electronics Engineering and CSE (IoT) was presented and approved. <p>As per the suggestions by the experts in the SoE of CSE(IoT) involvement of courses from electrical and mechanical department in professional elective should be less.</p>
31.06	<p>To discuss and suggest the minor changes in the syllabi of various courses in B.Tech 2020 Schemes of Undergraduate and Post graduate programs conducted under the Board.</p> <ul style="list-style-type: none"> No Change
31.07	<p>To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate and Postgraduate Programs.</p> <ul style="list-style-type: none"> No change
31.08	<p>To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under-Graduate and Post Graduate programs.</p> <ul style="list-style-type: none"> One new experiment is added in the course EE2402 Digital system design lab.
31.09	<p>To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board.</p> <ul style="list-style-type: none"> No change

31.10	To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum. <ul style="list-style-type: none"> • No change
31.11	To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Even Term 2022-23. <ul style="list-style-type: none"> • The panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs for End Semester Examination of EVEN Term 2022-23 was constituted.
31.12	To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Even Term 2022-23. <ul style="list-style-type: none"> • There are no Postgraduate courses under the Board.
31.13	To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination Even Term 2022-23. <ul style="list-style-type: none"> • The panel of internal and external examiners for the various laboratory courses at UG levels for End Semester Examination of EVEN Term 2022-23 was constituted.
31.14	Preparation of Electronic question Bank UG courses according to SoE 2020 & 2022. To review solutions to all questions of Electronic Question Banks for all courses <ul style="list-style-type: none"> • Electronic Question Banks for all courses are ready.
31.15	To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses. <ul style="list-style-type: none"> • No change.
31.16	To discuss and propose scheme for Minor an Honor course and its syllabus. To Discuss and propose Certificate courses and value-added courses in 2022-23. <ul style="list-style-type: none"> • NPTEL based Honor courses for CRYPTOGRAPHY are 5 Semester: <ol style="list-style-type: none"> 1. Discrete Mathematics 2. Introduction to Machine Learning 6 Semester: <ol style="list-style-type: none"> 1. Computer Networks and Internet Protocol 2. Data Analytics with Python Certificate courses and value-added courses to be conducted in even 2022-23. <ul style="list-style-type: none"> • Professional PCB design • Course on IoT
31.17	Any other matter with the permission of the Chair.

The meeting was concluded with thanks to the Chair. BoS Chairman has the authority to final the Scheme of Examination.


Dr.R.D.Thakare
Chairman
BoS in Electronics Engineering
Date: 28 January 2023


Dr.Pradnya Zode
Member Secretary
BoS in Electronics Engineering

Composition of Board of Studies in Electronics Engineering

Sr. No.	Provision	Name of Member	Membership
1	Head of the department		
2	Faculty Member	Dr. R. D. Thakare	Chairman
3	Faculty Member	Dr. Pradnya Zode	Member Secretary
4	Faculty Member	Dr. P. T. Karule	Member
5	Faculty Member	Dr.A.S.Khobragade	Member
6	Faculty Member	Dr. P. K. Dakhole	Member
7	Faculty Member	Dr.S.V.Rathkantiwar	Member
8	Faculty Member	Mr. M.S.Pawar	Member
9	Faculty Member	Mr. A. V. Gokhale	Member
10	Faculty Member	Mr. A. B. Thatere	Member
11	Faculty Member	Dr. U. S. Ghodeswar	Member
12	Faculty Member	Dr. P. P. Zode	Member
13	Faculty Member	Dr. P. P. Palsodkar	Member
14	Faculty Member	Dr. Ms. T. G. Panse	Member
15	Faculty Member	Dr. Ms. M. N. Kalbande	Member
16	Faculty Member	Dr. Ms. Y. A. Gaidhani	Member
17	Faculty Member	Ms. R. S. Balpande	Member
18	Faculty Member	Dr. Mr.P. M. Palsodkar	Member
19	Faculty Member	Dr.Y.A.Suryavanshi	Member
20	Faculty Member	Ms. A. D. Tijare	Member
21	Faculty Member	Mr. V. D. Alagdeve	Member
22	Faculty Member	Ms. P.A.Jadhav	Member
23	Faculty Member	Ms. S. A. Dhondse	Member
24	Faculty Member	Mr. A. A. Peshattiwar	Member
25	Faculty Member	Mr. Kuldeep Pande	Member
26	Faculty Member	P.R.Choudhary	Member
27	Faculty Member	Dr.P.A.Maturkar	Member
28	Faculty Member	P.D.Gawande	Member
28	Subject expert from outside the college to be nominated by the Academic Council.	Dr.S.B.Badjate	Member
29	Subject expert from outside the college to be nominated by the Academic Council.	Dr.N.K.Chaudhary	Member
30	Expert nominated by the vice-chancellor	Dr.P.R.Deshmukh	Member
31	Representative from industry/corporate sector/allied area relating to placement.	Mr. Amarendra G. Akre	Member
32	Postgraduate meritorious alumnus nominated by the Principal	Mr.R.A.Deshmukh	Member

Yeshwantrao Chavan College of Engineering, Nagpur

Department of Electronics Engineering

Session 2022-23 (Odd Term)

Name of Laboratory : Digital System Design Lab	
Course : EE 2402 Digital System Design Lab	Sem/ Branch : VI Sem / Electronic Engg.

List of Experiments

Expt No.	Experiment Name	CO
1	Write data flow Verilog Codes of basic gates	CO1,CO2,C O4
2	Write data flow Verilog Codes of combinational circuits	CO1,CO2,C O4
3	Write Test bench for combinational circuits	CO1,CO2,C O3,CO4
4	Write switch level Verilog Codes for CMOS circuits	CO1,CO2,C O4
5	Write behavioural Verilog code of digital circuits using if-else statement.	CO1,CO2,C O4
6	Write behavioural Verilog code of digital circuits using case statement..	CO1,CO2,C O4
7	Write a behavioural Verilog code of Flip Flops	CO1,CO2,C O4
8	Write a Structural Verilog code of adders	CO1,CO4
9	Write a Structural Verilog code of shift registers	CO1,CO4
10	Write Verilog code for Mealy and Moore sequence detector	CO1,CO2,C O3,CO4
11	FPGA implementation of combinational circuits	CO1,CO4

Session 2021-22

NPTEL based Honor courses-CRYPTOGRAPHY

5 Semester:

1. Discrete Mathematics
2. Introduction to Machine Learning

6 Semester:

1. Computer Networks and Internet Protocol
2. Data Analytics with Python

Session 2022-23

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
1	5	PC	EE	Computer Networks and Internet Protocol	T	3	0	0	3	3	30	30	40	3 Hours
2	5	PC	EE	Discrete Mathematics	T	3	0	0	3	3	30	30	40	3 Hours
3	6	PC	EE	Data Analytics	T	3	0	0	3	3	30	30	40	3 Hours
4	6	PC	EE	Machine Learning	T	3	0	0	3	3	30	30	40	3 Hours
5	7	PC	EE	Cryptography and Network Security	T	3	0	0	3	3	30	30	40	3 Hours
6	7	PC	EE	Social Networks Analysis	T	3	0	0	3	3	30	30	40	3 Hours



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Department of Electronics Engineering

Boards of Studies in Electronics Engineering

Minutes of the Meeting No. 31

Meeting No. 31,

Date: 2nd August 2022

Meeting no. 31 of the Board of Studies in Electronics Engineering was held online on 30th July 2022 at 10.00A.M.in Electronics Engineering department library.

The meeting was attended by the following members of BoS.

- | | | |
|-----------------------------|---------------------------|------------------------|
| 1. Dr.S.B.Badjate | 12. Dr.Mrs.R. S. Balpande | 23. Mrs.S.A.Dhondse |
| 2. Dr.N.K.Chaudhary | 13. Dr.Mr.P.M. Palsodkar | 24. Dr.P.A.Maturkar |
| 3. Dr.P.R.Deshmukh | 14. Dr.Ms.A.D.Tijare | 25. P.D.Gawande |
| 4. Dr. R. D. Thakare | 15. Ms. P.A. Jadhav | 26. Prof.M.S.Pawar |
| 5. Dr.Pradnya P. Zode | 16. Mr. K.G.Pande | 27. Dr.Y.A.Suryawanshi |
| 6. Dr. P. P. Zode | 17. Mr.A.B.Thatere | |
| 7. Dr.A.S.Khobragade | 18. Mr.V.D. Alagdeve | |
| 8. Dr.S.V.Rathkanthiwar | 19. Mr. A.A.Peshettiwar | |
| 9. Mr. A. V. Gokhale | 20. Dr.Mrs.Y.A.Gaidhani | |
| 10. Dr.U.S.Ghodeswar | 21. Ms.P.R.Chaudhari | |
| 11. Dr.Mrs. P. P. Palsodkar | 22. Dr. Mrs.T.G.Panse | |

Leave of absence was granted to

1. Mr.Amarendran Akre
2. Mr.R.A.Deshmukh
3. Dr.P.K.Dakhole
4. Dr.P.T.Karule
5. Dr.Mrs.M.N.Kalbande

BOS 31



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Electromagnetic Fields														
EE2258 Lab: Electronics Workshop	3	3	2		2	2	2	3	3	3	2	2	2	
EE2301/ EE2302 Digital Signal Processing / Digital Signal Processing Lab	3	3	3	3	2							3		
EE2303/ EE2304 Analog Integrated Circuits & Its Applications /Lab: Analog Integrated Circuits & Its Applications	3	3	2	2	2				1			3		3
EE2311/ EE2312 PE I: Computer Communication Network / Lab: PE I: Computer Communication Network	2	3	2	2	2	2			1	2				3
EE2313/ EE2314 PE I: Embedded Systems / Lab: PE I: Embedded Systems	2	3		3	2					3	3			
EE2315/ EE2316 PE I: Algorithm & Data Structure / Lab: PE I: Algorithm & Data Structure	2	2	2	2	3	2	2	3	3	3	3	3	2	2
EE2317/ EE2318 PE I: Applied Machine Learning/ Lab: PE I: Applied Machine Learning	3	3	3	3	3	1	1					2		
EE 2351 Control System Engineering	2	3	2	2										
EE2352 Transmission Lines and Wave Guides	2	3	2	2	3				3					2
EE2353/EE2354 Digital Communication/Lab: Digital Communication	3	3	1	2	2	2			1	2				3
EE2361 PE II: Internet of Things EE2362- Lab: PE II: Internet of Things	3	3	2		3									3
EE2363/ EE2364 PE II: Digital CMOS Circuits / Lab: PE II: Digital CMOS Circuits	2	3	3											3
EE2365/ EE2366 PE II: Digital Image	2	3	2	2	2				2	2				3



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Processing / Lab:PE II: Digital Image Processing													
EE2367 PE II: Object Oriented Programming	3	2	3	2	3	3			2		1	1	1
EE2368 Lab: PE II: Object Oriented Programming	3	2	3	2	3	3			2		1	1	1
EE2381 OE III : Fuzzy Logic & Neural Network	3	3	3	3	2	2	1	2	2	2	2	2	3
EE2382 OE III : Basics of Analog and Digital Communication Systems	2	2	2					2				2	
EE2383 OE III: Biomedical Instrumentation	2	2	2					2				2	
EE2401/EE2402 Digital System Design	3	3	2						2	2		2	2
EE2411PE III: Switching Theory & Finite Automata	2	2	2					1					
EE2412PE III :Power Electronics	2	2	3					1					
EE2413PE III: Wireless Sensor Network	3	2	2					2				1	
EE2414PE III: VLSI Signal Processing	3	2	2		2				2			1	3
EE2421PE IV: Wireless Communication/ EE2422Lab:PE IV: Wireless Communication	3	3		2	3			1				2	
EE2423PE IV: RF and Microwave/ EE2424Lab:PE IV: RF and Microwave	2	3		3				2	2	2			
EE2425PE IV: Analog VLSI Design	3	3	2	2					2			2	1
EE2429PE IV: Operating Systems/ EE2430Lab: PE IV: Operating Systems	3	2	2	2									
EE2432PE V: Nano Electronics	2	2										2	
EE2433PE V: Optical Communication	2	2	2					2				1	
EE2435PE V: RF Circuit Design	3	2	2						1				
EE2442PE-VI: MEMS	2	2	2					2					



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EE2443PE-VI: Biomedical Instrumentation	2	2	2	2											
EE2445PE- VI:Computer Organization	3	3	3	2					2				3		
EE2410Industrial Training / CRT						1	1	2		2	1	2			
EE2409Mini Project	2	2	2	2		3	3	3	3	3	3	2	3	3	
Major Project	2	2	2	2		3	3	3	3	3	3	2	3	3	
Average Direct Attainment Target	2.44	2.42	2.08	2.18	2.43	1.96	1.57	1.76	1.88	2.08	1.56	1.82	1.72	1.95	
Indirect Attainment Target	3	3	3	3	3	3	3	3	3	3	3	3			
(80 % Direct + 20% Indirect) Total Attainment Target	2.56	2.45	2.28	2.26	2.52	1.91	1.87	1.90	2.12	2.35	2.32	2.04	1.94	1.90	
	3	3	3	3	3	2	2	2	3	3	3	3	2	2	

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO-1	PSO-2
Direct Attainment	2.21	2.11	1.88	1.91	2.14	1.54	1.47	1.59	1.83	2.15	2.12	2.69	1.92	1.88
In Direct Attainment	2.79	2.79	2.79	2.79	2.79	2.89	2.84	2.84	2.91	2.82	2.82	2.73		
(80 % Direct + 20% Indirect) Total Attainment	2.33	2.25	2.06	2.09	2.27	1.81	1.74	1.84	2.05	2.29	2.26	1.90	1.92	1.88
	3	3	3	3	3	2	2	2	3	3	3	2	2	2

Semester	Course	CO Attainment	Action To Be Taken	Contribution to PO
IV	EE2253/ Microcontroller & its Applications	CO-3,4	Extra Assembly Language Programs will be practiced in the class, Also Assignment will be given	PO-1,2,3
IV	EE2257 Electromagnetic Fields	CO-1,2,3,4	More Numerical will be taught in the class & assignment will be given	PO-1,2
VI	EE 2351 Control System Engineering	CO-1,2,3,4	Further Numerical will be taught in the class & assignment will be given	PO-1,2,3
VI	EE2352 Transmission Lines and Wave Guides	CO-1,2,3,4	Additional emphasis will be given on derivations and assignment will be given	PO-1,2,3



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ii) Result analysis of subjects taught in previous semester

Sr.No	Semester	% Result
1	4	81.56
2	6	78.95
3	8	100

- For IV semester result of all courses is above 80% so no need of any action.
- For VI semester result of all courses except courses EE2363 PE II:Digital CMOS circuits (Result-72.97%) and EE2367 PE II:Object oriented programming (Result-74.36%) is above 80% so no need of any action.
- For EE2363 PE II:Digital CMOS circuits and EE2367 PE II:Object oriented programming more number of practice problems on different topics will be taken in class and more assignments will be given.

iii) Stake holders feedback on review and design of curriculum

• **Stake holders feedback on review and design of curriculum was shown.**

Sr.No.	Stack Holders	Feedback	Action taken
1	Employers	Industry require more practical Knowledge on latest software tools	As per Suggestion standard EDA tools as CADENCE, Keil, Multisim, PSPICE (ORCAD), Quartus II, Arduino for IOT is introduced.
		Students should have field knowledge which will be use full at the onset in their job.	<ul style="list-style-type: none"> • In the SoE semester long Internship for UG Students in 8th semester is included. • Students have done Industry based certification courses and NPTEL courses.
2	Alumni	For Core placement more hand on VLSI	<ul style="list-style-type: none"> • Value added course on VLSI Design and EDA tools for more Hand on exposure in VLSI was conducted. • In new SoE22 digital VLSI design course is made core and more electives are added on VLSI.
3	Parent	Parents enquired about mock interview/ campus training for students.	Information about CRT, YCAP and T&P activities to be conducted by the department was given.
		Parents enquired about the changes in exam pattern from online to offline	Parents were made aware about changes in the exam pattern in offline mode.
4	Students	Courses based on IoT should be introduced.	In SoE 22 IoT course is made core from elective in SoE 18-19
		Options in questions should be given in ESE	To follow the OBE, no options is given the ESE paper.

iv) In Sem, End Sem and Exit feedback on Teaching Lear & curriculum

Semester	No. of faculty with feedback more than 90%		No. of faculty with feedback more than 80%		No. of faculty with feedback less than 80% and greater than 60%	
	IN SEM	END SEM	IN SEM	END SEM	IN SEM	END SEM
IV	8/19	7/8	10/19	1/8	1/19	NIL
	42.11%	87.5%	52.63%	12.5%	5.2%	--
VI	14/26	19/23	12/26	4/23	NIL	NIL
	53.85%	82.61%	46.15%	17.39%	--	--



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- For IV semester result of all courses is above 80% so no need of any action.
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- For EE2363 PE II:Digital CMOS circuits and EE2367 PE II:Object oriented programming more number of practice problems on different topics will be taken in class and more assignments will be given.

iii) Stake holders feedback on review and design of curriculum

•Stake holders feedback on review and design of curriculum was shown.

Sr.No.	Stack Holders	Feedback	Action taken
1	Employers	Industry require more practical Knowledge on latest software tools	As per Suggestion standard EDA tools as CADENCE, Keil, Multisim, PSPICE (ORCAD), Quartus II, Arduino for IOT is introduced.
		Students should have field knowledge which will be use full at the onset in their job.	<ul style="list-style-type: none"> • In the SoE semester long Internship for UG Students in 8th semester is included. • Students have done Industry based certification courses and NPTEL courses.
2	Alumni	For Core placement more hand on VLSI	<ul style="list-style-type: none"> • Value added course on VLSI Design and EDA tools for more Hand on exposure in VLSI was conducted. • In new SoE22 digital VLSI design course is made core and more electives are added on VLSI.
3	Parent	Parents enquired about mock interview/ campus training for students.	Information about CRT, YCAP and T&P activities to be conducted by the department was given.
		Parents enquired about the changes in exam pattern from online to offline	Parents were made aware about changes in the exam pattern in offline mode.
4	Students	Courses based on IoT should be introduced.	In SoE 22 IoT course is made core from elective in SoE 18-19
		Options in questions should be given in ESE	To follow the OBE, no options is given the ESE paper.

iv) In Sem, End Sem and Exit feedback on Teaching Lear & curriculum

Semester	No. of faculty with feedback more than 90%		No. of faculty with feedback more than 80%		No. of faculty with feedback less than 80% and greater than 60%	
	IN SEM	END SEM	IN SEM	END SEM	IN SEM	END SEM
IV	8/19	7/8	10/19	1/8	1/19	NIL
	42.11%	87.5%	52.63%	12.5%	5.2%	--
VI	14/26	19/23	12/26	4/23	NIL	NIL
	53.85%	82.61%	46.15%	17.39%	--	--



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31.05	<p>To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2018 & B.Tech 2020) of the Undergraduate and Post graduate programs conducted under the Board. To approve and ratify SoE22 and all syllabi of B.Tech and M.Tech I & II year.</p> <ul style="list-style-type: none">• 1 new industry aligned Professional elective subject in association with MRSAC, Nagpur as "Introduction to Remote Sensing and Image Analysis" is added in the 7th sem as PE 6 of Autonomous 2018 SoE.• SoE22 for Electronics Engineering was presented and approved.• SoE22 for CSE(IoT) was presented and approved.• Syllabus of 5th to 8th Semester for IIoT Branch was presented and approved.
31.06	<p>To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2018 & B.Tech 2020 Schemes of Undergraduate and Post graduate programs conducted under the Board.</p> <ul style="list-style-type: none">• Minor changes in the syllabi of 7th Semester EE2434 PE V: RF Circuit Design is proposed.• Minor changes in the syllabi of 7th Semester EE2431 PE V: Industrial Automation is proposed.• Minor changes in the syllabi of 7th Semester EE2412 PE III: Power Electronics is proposed.
31.07	<p>To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate and Postgraduate Programs.</p> <ul style="list-style-type: none">• No change
31.08	<p>To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Undergraduate and Post Graduate programs. (Comment: The laboratory courses may be described in greater details for easy understanding by students.)</p> <ul style="list-style-type: none">• No change
31.09	<p>To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board.</p> <ul style="list-style-type: none">• No change
31.10	<p>To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.</p> <ul style="list-style-type: none">• No change
31.11	<p>To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Odd Term/Even Term 2022-23.</p> <ul style="list-style-type: none">• The panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs for End Semester Examination of Odd Term 2022-23 was constituted.
31.12	<p>To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Odd/Even Term 2022-23. (Comment: Question papers of all the courses of PG programs are set and evaluated by the course instructor from Odd Term 2021-22. The grades of the students will also be decided by the Course Instructors.)</p> <ul style="list-style-type: none">• There are no Postgraduate courses under the Board.
31.13	<p>To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination Odd/Even Term 2022-23.</p> <ul style="list-style-type: none">• The panel of internal and external examiners for the various laboratory courses at UG levels for End Semester Examination of ODD Term 2022-23 was constituted.
31.14	<p>Preparation of Electronic question Bank UG courses according to SoE 2018. To review solutions to all questions of Electronic Question Banks for all courses</p> <ul style="list-style-type: none">• Electronic Question Banks for all courses are ready.
31.15	<p>To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses.</p>



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	<ul style="list-style-type: none">• No change.
31.16	<p>To discuss and propose scheme for Minor an Honor course and its syllabus. NPTEL based Honor courses in CRYPTOGRAPHY for 7 Semester, 2 courses are 1. Cryptography and Network Security 2. Social Network</p> <ul style="list-style-type: none">• Approval for above NPTEL courses for Honor course Cryptography was put up for approvals and it was approved. <p>NPTEL based Honor courses in CRYPTOGRAPHY for 5 Semester, 2 courses are 1. Introduction to Machine Learning 2. Discrete Mathematics</p> <ul style="list-style-type: none">• Approval for above NPTEL courses for Honor course Cryptography was put up for approvals and it was approved. <p>To Discuss and propose Certificate courses and value added courses in 2022-23. Two Certificate courses to be conducted in ODD 2022-23 as</p> <ul style="list-style-type: none">• Capacity Building on Machine Learning.• Graphics programming in "C". <p>Two VACs to be conducted in ODD 2022-23 as</p> <ul style="list-style-type: none">• VLSI Design.• Python Programming, its application & Data Science.
31.17	Any other matter with the permission of the Chair.

The meeting was concluded with thanks to the Chair. BoS Chairman has the authority to final the Scheme of Examination.

Dr.R.D.Thakare
Chairman
BoS in Electronics Engineering

Dr.Pradnya Zode
Member Secretary
BoS in Electronics Engineering

Date: 2nd August 2022

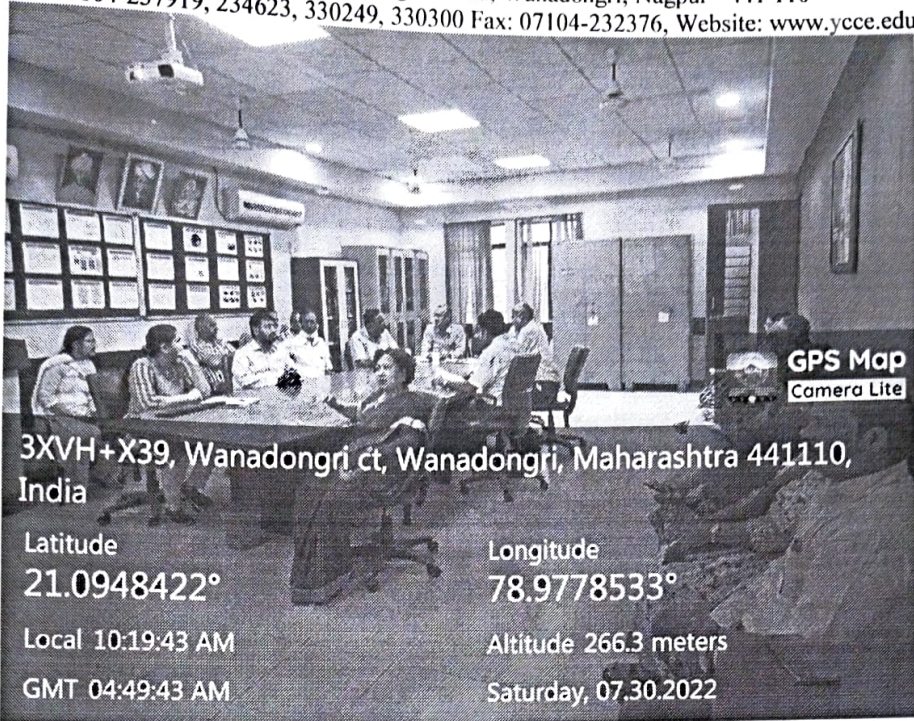


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GPS Map
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3XVH+X39, Wanadongri ct, Wanadongri, Maharashtra 441110,
India

Latitude
21.0948422°

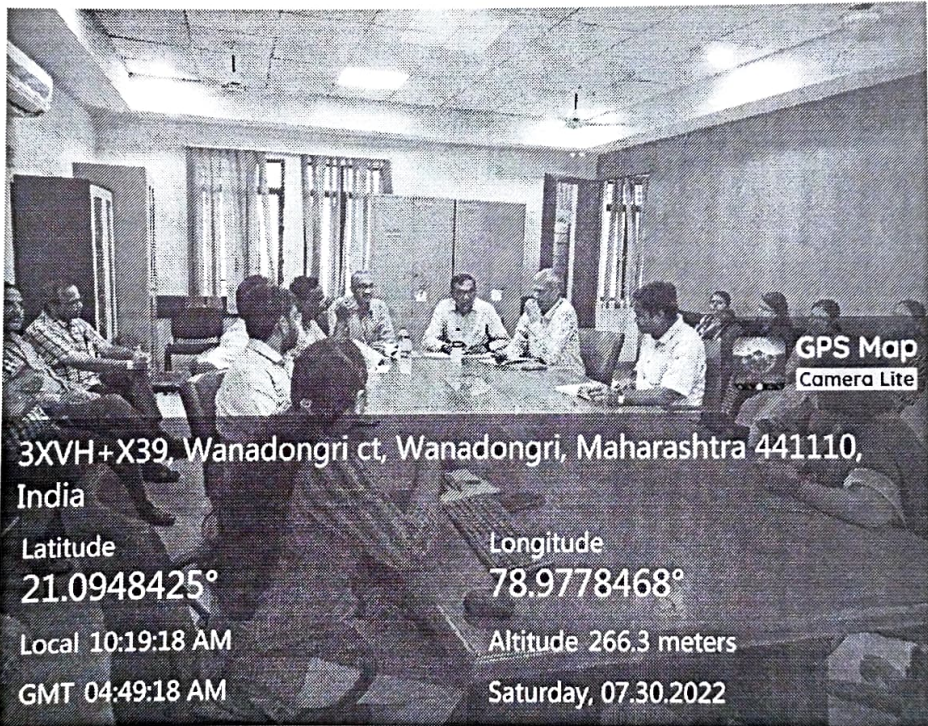
Longitude
78.9778533°

Local 10:19:43 AM

Altitude 266.3 meters

GMT 04:49:43 AM

Saturday, 07.30.2022



GPS Map
Camera Lite

3XVH+X39, Wanadongri ct, Wanadongri, Maharashtra 441110,
India

Latitude
21.0948425°

Longitude
78.9778468°

Local 10:19:18 AM

Altitude 266.3 meters

GMT 04:49:18 AM

Saturday, 07.30.2022



Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering

(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
Hingna Road, Wanadongri, Nagpur - 441 110

Ph.: 07104-237919, 234623, 330249, 330300 Fax: 07104-232376, Website: www.ycce.edu

Composition of Board of Studies in Electronics Engineering

Sr. No.	Provision	Name of Member	Membership
1	Head of the department	Dr. R. D. Thakare	Chairman
2	Faculty Member	Dr. Pradnya Zode	Member Secretary
3	Faculty Member	Dr. P. T. Karule	Member
4	Faculty Member	Dr.A.S.Khobragade	Member
5	Faculty Member	Dr. P. K. Dakhole	Member
6	Faculty Member	Dr.S.V.Rathkanthiwar	Member
7	Faculty Member	Mr. M.S.Pawar	Member
8	Faculty Member	Mr. A. V. Gokhale	Member
9	Faculty Member	Mr. A. B. Thatere	Member
10	Faculty Member	Dr. U. S. Ghodeswar	Member
11	Faculty Member	Dr. P. P. Zode	Member
12	Faculty Member	Dr. P. P. Palsodkar	Member
13	Faculty Member	Dr. Ms. T. G. Panse	Member
14	Faculty Member	Dr. Ms. M. N. Kalbande	Member
15	Faculty Member	Dr. Ms. Y. A. Gaidhani	Member
16	Faculty Member	Ms. R. S. Balpande	Member
17	Faculty Member	Dr. Mr.P. M. Palsodkar	Member
18	Faculty Member	Dr.Y.A.Suryavanshi	Member
19	Faculty Member	Ms. A. D. Tijare	Member
20	Faculty Member	Mr. V. D. Alagdeve	Member
21	Faculty Member	Ms. P.A.Jadhav	Member
22	Faculty Member	Ms. S. A. Dhondse	Member
23	Faculty Member	Mr. A. A. Peshattiwar	Member
24	Faculty Member	Mr. KuldeepPande	Member
25	Faculty Member	P.R.Choudhary	Member
26	Faculty Member	Dr.P.A.Maturkar	Member
27	Faculty Member	P.D.Gawande	Member
28	Subject expert from outside the college to be nominated by the Academic Council.	Dr.S.B.Badjate	Member
29	Subject expert from outside the college to be nominated by the Academic Council.	Dr.N.K.Chaudhary	Member
30	Expert nominated by the vice-chancellor	Dr.P.R.Deshmukh	Member
31	Representative from industry/corporate sector/allied area relating to placement.	Mr. Amarendra G. Akre	Member
32	Postgraduate meritorious alumnus nominated by the Principal	Mr.R.A.Deshmukh	Member

Session 2021-22

NPTEL based Honor courses-CRYPTOGRAPHY

7 Semester:

1. Cryptography and Network Security
2. Social Network

Session 2022-23

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L ²	T	P	Hrs		MSEs*	TA**	ESE	
1	5	PC	EE	Computer Networks and Internet Protocol	T	3	0	0	3	3	30	30	40	3 Hours
2	5	PC	EE	Discrete Mathematics	T	3	0	0	3	3	30	30	40	3 Hours
3	6	PC	EE	Data Analytics	T	3	0	0	3	3	30	30	40	3 Hours
4	6	PC	EE	Machine Learning	T	3	0	0	3	3	30	30	40	3 Hours
5	7	PC	EE	Cryptography and Network Security	T	3	0	0	3	3	30	30	40	3 Hours
6	7	PC	EE	Social Networks Analysis	T	3	0	0	3	3	30	30	40	3 Hours



Electronics Engineering

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
TOTAL FIRST & SECOND SEM										47				
Third Semester														
1	3	BS	GE2201	Engineering Mathematics III	T	3	0	0	3	3	30	20	50	3 Hours
2	3	PC	EE2201	Electronic Devices	T	3	1	0	4	4	30	20	50	3 Hours
3	3	PC	EE2202	Lab:Electronic Devices	P	0	0	2	2	1		60	40	
4	3	PC	EE2203	Signal and Systems	T	3	0	0	3	3	30	20	50	3 Hours
5	3	PC	EE2204	Lab:Programming Language	P	0	0	2	2	1		60	40	
6	3	PC	EE2205	Digital Logic Design	T	3	0	0	3	3	30	20	50	3 Hours
7	3	PC	EE2206	Lab: Digital Logic Design	P	0	0	2	2	1		60	40	
8	3	PC	EE2207	Network Analysis	T	3	0	0	3	3	30	20	50	3 Hours
9	3	PC	EE2208	Lab:Network Analysis	P	0	0	2	2	1		60	40	
TOTAL						15	1	8	24	20				

Fourth Semester														
1	4	BS	GE2204	Advance Mathematical Techniques	T	3	0	0	3	3	30	20	50	3 Hours
2	4	PC	EE2251	Electronic Circuits	T	3	0	0	3	3	30	20	50	3 Hours
3	4	PC	EE2252	Lab:Electronic Circuits	P	0	0	2	2	1		60	40	
4	4	PC	EE2253	Microcontroller and its Applications	T	3	0	0	3	3	30	20	50	3 Hours
5	4	PC	EE2254	Lab: Microcontroller and its Applications	P	0	0	2	2	1		60	40	
6	4	PC	EE2255	Analog Communication	T	3	0	0	3	3	30	20	50	3 Hours
7	4	PC	EE2256	Lab.: Analog Communication	P	0	0	2	2	1		60	40	
8	4	PC	EE2257	Electromagnetic Fields	T	3	1	0	4	4	30	20	50	3 Hours
9	4	PC	EE2258	Lab: Simulation Lab/Workshp Lab	P	0	0	2	2	1		60	40	
TOTAL						15	1	8	24	20				

Audit Courses														
1	4	HS	GE2121	Env Studies for 4 Sem. CV,ME,EE,IT	A	3	0	0	3	0				
2	3	HS	AU2123	YCCE Communication Aptitude Preparation (YCAP3)	A	3	0	0	3	0				
3	4	HS	AU2125	YCCE Communication Aptitude Preparation (YCAP4.2) for EL,EE,ET	A	3	0	0	3	0				

MSEs* = Two MSEs of 15 Marks each will conducted and marks of these 2 MSEs will be considered for Continuous Assessment
TA ** = for Theory : 5 marks on lecture quizzes, 11 marks on TA2+TA4 activitied decided by course teacher, 4 marks on class attendance
TA = for Practical : MSPA will be 15 marks each**

		June 2022	1.05	Applicable for AY 2022-23 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



Electronics Engineering

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Fifth Semester														
1	5	HS	GE2311	Fundamental of Management	T	3	0	0	3	3	30	20	50	3 Hours
2	5	PC	EE2301	Digital Signal Processing	T	3	0	0	3	3	30	20	50	3 Hours
3	5	PC	EE2302	Lab: Digital Signal Processing	P	0	0	2	2	1		60	40	
4	5	PC	EE2303	Analog Integrated Circuit & its Application	T	3	0	0	3	3	30	20	50	3 Hours
5	5	PC	EE2304	Lab: Analog Integrated Circuit & its Application	P	0	0	2	2	1		60	40	
6	5	PE		Professional Elective-I	T	3	0	0	3	3	30	20	50	3 Hours
7	5	PE		Lab.: Professional Elective-I	P	0	0	2	2	1		60	40	
8	5	OE		Open Elective - I *	T	3	0	0	3	3	30	20	50	3 Hours
9	5	OE		Open Elective - II *	T	3	0	0	3	3	30	20	50	3 Hours
10	5	STR	EE2310	Industry Visit and its report	P	0	0	0	0	1		100		
TOTAL						18	0	6	24	22				

List of Audit Courses

1	5	HS	AU2127	YCCE Communication Aptitude Preparation (YCAP5.2) for EL,EE,ET	A	3	0	0	3	0				
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Professional Electives -I

1	5	PE-I	EE2311	PE-I:Computer Communication Network
2	5	PE-I	EE2312	Lab:PE-I:Computer Communication Network
3	5	PE-I	EE2313	PE-I:Embedded System
4	5	PE-I	EE2314	Lab:PE-I:Embedded System
5	5	PE-I	EE2315	PE-I:Algorithm & Data Structure
6	5	PE-I	EE2316	Lab:PE-I:Algorithm & Data Structure
7	5	PE-I	EE2317	PE-I: Applied Machine Learning
8	5	PE-I	EE2318	Lab:PE-I:Applied Machine Learning

Open Electives -I

1	5	OE-I	EE2331	OE I : Fuzzy Logic & Neural Network
2	5	OE-I	EE2332	OE I : Basics of Analog and Digital Communication
3	5	OE-I	EE2333	OE I : Biomedical Instrumentation

Open Electives -II

1	5	OE-II	EE2341	OE II : Data Acquisition & Signal Conditioning
2	5	OE-II	EE2342	OE II : Microprocessor Programming
3	5	OE-II	EE2343	OE II : Consumer Electronics

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Electronics Engineering

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						L	T	P	Hrs		MSEs*	TA**	ESE	
Sixth Semester														
1	6	HS	GE2312	Fundamental of Economics	T	3	0	0	3	3	30	20	50	3 Hours
2	6	PC	EE2351	Control System Engineering	T	3	0	0	3	3	30	20	50	3 Hours
3	6	PC	EE2352	Transmission Lines and Waveguides	P	0	0	2	2	1	60	40		
4	6	PC	EE2353	Digital Communication	T	3	0	0	3	3	30	20	50	3 Hours
5	6	PC	EE2354	Lab: Digital Communication	T	3	0	0	3	3	30	20	50	3 Hours
6	6	PE		Professional Elective-II	T	3	0	0	3	3	30	20	50	3 Hours
7	6	PE		Lab.: Professional Elective-II	P	0	0	2	2	1	60	40		
8	6	OE		Open Elective - III **	T	3	0	0	3	3	30	20	50	3 Hours
9	6	OE		Open Elective - IV **	T	3	0	0	3	3	30	20	50	3 Hours
TOTAL						21	0	4	25	23				

Professional Electives -II

1	6	PE II	EE2361	PE II: Internet of Things
	6	PE II	EE2362	Lab: PE II: Internet of Things
2	6	PE II	EE2363	PE II: Digital CMOS Circuits
	6	PE II	EE2364	Lab: PE II: Digital CMOS Circuits
3	6	PE II	EE2365	PE II: Digital Image Processing
	6	PE II	EE2366	Lab: PE II: Digital Image Processing
4	6	PE II	EE2367	PE II: Object Oriented Programming
	6	PE II	EE2368	Lab: PE II: Object Oriented Programming

Open Electives -III

1	6	OE-III	EE2381	OE III : Fuzzy Logic & Neural Network
2	6	OE-III	EE2382	OE III : Basics of Analog and Digital Communication
3	6	OE-III	EE2383	OE III : Biomedical Instrumentation

Open Electives -IV

4	6	OE-IV	EE2391	OE IV : Data Acquisition & Signal Conditioning
5	6	OE-IV	EE2392	OE IV : Microprocessor Programming
6	6	OE-IV	EE2393	OE IV : Consumer Electronics

Audit Courses

1	6	HS	AU2129	YCCE Communication Aptitude Preparation (YCAP6.2) for ME, EE, ETC	A	3	0	0	3	0				
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TA = for Theory : 5 marks on lecture quizzes, 11 marks on TA2+TA4 activities decided by course teacher, 4 marks on class attendance**

TA = for Practical : MSPA will be 15 marks each**

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Electronics Engineering

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Seventh Semester														
1	7	PC	EE2401	Digital System Design	T	3	0	0	3	3	30	20	50	3 Hours
2	7	PC	EE2402	Lab.: Digital System Design	P	0	0	2	2	1		60	40	
3	7	PE		Professional Elective-III	T	3	0	0	3	3	30	20	50	3 Hours
4	7	PE		Professional Elective-IV	T	3	0	0	3	3	30	20	50	3 Hours
5	7	PE		Lab. : Professional Elective-IV	P	0	0	2	2	1		60	40	
6	7	PE		Professional Elective-V	T	3	0	0	3	3	30	20	50	3 Hours
7	7	PE		Professional Elective-VI	T	3	0	0	3	3	30	20	50	3 Hours
8	7	STR	EE2409	Mini Project	P	0	0	4	4	2		60	40	
9	7	STR	EE2410	Campus Recruitment Training (CRT)	P	0	0	0	0	2		100		
TOTAL						15	0	8	23	21				

Professional Electives -III

1	7	PE III	EE2411	PE III: Switching Theory & Finite Automata
2	7	PE III	EE2412	PE III :Power Electronics
3	7	PE III	EE2413	PE III: Wireless Sensor Network
4	7	PE III	EE2414	PE III: VLSI Signal Processing

Professional Electives -IV

1	7	PE IV	EE2421	PE IV: Wireless Communication
	7	PE IV	EE2422	Lab: PE IV:Wireless Communication
2	7	PE IV	EE2423	PE IV: RF and Microwave
	7	PE IV	EE2424	Lab: PE IV: RF and Microwave
3	7	PE IV	EE2425	PE IV: Analog VLSI Design
	7	PE IV	EE2426	Lab. : PE IV: Analog VLSI Design
4	7	PE IV	EE2427	PE IV: Operating Systems
	7	PE IV	EE2428	Lab: PE IV:Operating Systems

Professional Electives -V

1	7	PE V	EE2431	PE V: Industrial Automation
2	7	PE V	EE2432	PE V: Nano Electronics
4	7	PE V	EE2433	PE V: Optical Communication
5	7	PE V	EE2434	PE V: RF Circuit Design

Professional Electives -VI

1	7	PE-VI	EE2441	PE-VI: E-Commerce and Data Analytics
2	7	PE-VI	EE2442	PE-VI: Micro Electro Mechanical Systems (MEMS)
3	7	PE-VI	EE2443	PE-VI: Biomedical Instrumentation
4	7	PE-VI	EE2444	PE-VI: Computer Organization
5	7	PE-VI	EE2445	PE VI : Introduction to Remote Sensing and Image Analysis

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TA = for Practical : MSPA will be 15 marks each**

		June 2020	1.04	Applicable for AY 2020-21 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



Electronics Engineering

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours	
						L	T	P	Hrs		MSEs*	TA**	ESE		
Eighth Semester															
1	8	STR	EE2451	Major Project	P	0	0	12	12	9		60	40		
2	8	STR	EE2452	Extra curricular Activity Evaluation	P	0	0	0	0	1		100			
TOTAL						0	0	12	12	10					
GRAND TOTAL						84	2	46	132	163					

MSEs* = Two MSEs of 15 Marks each will conducted and marks of these 2 MSEs will be considered for Continuous Assessment

TA = for Theory : 5 marks on lecture quizzes, 11 marks on TA2+TA4 activitied decided by course teacher, 4 marks on class attendance**

TA = for Practical : MSPA will be 15 marks each**

		June 2022	1.05	Applicable for AY 2022-23 Onwards
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Electronics Telecommunication Engineering



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Department of Electronics & Telecommunication Engineering

YCCE/ET/FORMAT/BOS/MOM/26

Minutes of the 26th BOS Meeting

Date: 3rd August 2022

The 26th meeting of the Board of Studies in Electronics & Telecommunication Engineering was held on Wednesday, 3rd August 2022 at 10:00 am in the departmental Library ET, YCCE, Nagpur

The meeting was attended by the following members of Board of Studies.

Sr. No.	Name	Signature
01	Dr.A.G.Keskar, Expert, VNIT, Nagpur	
02	Dr. R. B. Deshmukh, Expert, VNIT, Nagpur	
03	Dr.S.L.Badjate ,VC Nominee, Principal S. B .Jain, Nagpur	
04	Mr. Ranjit Singh, Industry person, M.D. & CEO, Syslogix systems Pvt. Ltd, Nagpur	
05	Mr. Sagar Ghormade, PG Alumni	Absent

S. No.	Name	Signature	S No.	Name	Signature
1	Dr. M. M. Mushrif		15	Dr.M.L.Keote	
2	Dr.M.D. Chawhan		16	Dr. P. D. Dorge	
3	R.P.Deshmukh		17	S.A.Desai	
4	Dr. P.W. Raut		18	Dr.V.D. Bondre	
5	Dr. D.B.Bhoyar		19	Dr.B.Y. Masram	
6	K.P.Kamble		20	Y. S. Kale	
7	Dr. Y.U.Chitriv		21	V.B.Niranjane	
8	Dr. A.D.Belsare		22	A.A.Madankar	
9	Dr. N.D.Rehpade		23	R.P.Kamdi	
10	A.V.Choudhari		24	D.K.Thote	
11	N.A.Pande		25	M.S.Patil	
12	Dr. S.S.Khade		26	Dr. R.S.Keote	
13	Dr.C.S.Gode		27	S.R.Nitnaware	
14	S.S.Chiwande		28	M. S. Ghule	



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The meeting was attended by the following members of Board of Studies.

Sr. No.	Name	Signature
01	Dr.A.G.Keskar, Expert,VNIT, Nagpur	Present
02	Dr. R. B. Deshmukh, Expert,VNIT, Nagpur	Present
03	Dr.S.L.Badjate ,VC Nominee, Principal S. B .Jain, Nagpur	Present
04	Mr. Ranjit Singh, Industry person, M.D. & CEO, Syslogix systems Pvt. Ltd, Nagpur	Present
05	Mr. Sagar Ghormade, PG Alumni	Absent

S. No.	Name	Signature	S No.	Name	Signature
1	Dr. M. M. Mushrif	Present	15	Dr.M.L.Keote	Present
2	Dr.M.D. Chawhan	Present	16	Dr. P. D. Dorge	Present
3	R.P.Deshmukh	Present	17	S.A.Desai	Present
4	Dr. P.W. Raut	Present	18	Dr.V.D. Bondre	Present
5	Dr. D.B.Bhoyar	Present	19	Dr.B.Y. Masram	Present
6	K.P.Kamble	Present	20	Y. S. Kale	Present
7	Dr. Y.U.Chitriv	Present	21	V.B.Niranjane	Present
8	Dr. A.D.Belsare	Present	22	A.A.Madankar	Present
9	Dr. N.D.Rehpade	Present	23	R.P.Kamdi	Present
10	A.V.Choudhari	Present	24	D.K.Thote	Present
11	N.A.Pande	Present	25	M.S.Patil	Present
12	Dr. S.S.Khade	Present	26	Dr. R.S.Keote	Present
13	Dr.C.S.Gode	Present	27	S.R.Nitnaware	Present
14	S.S.Chiwande	Present			



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Department of Electronics & Telecommunication Engineering

Leave of absence was granted to –

Sr. No.	Name
1	Mr. Sagar Ghormade, PG Alumni

The following agenda points were discussed and deliberated in the meeting.

26.01 Welcome of new members.

BoS members have been welcomed by the Chairman.

26.02 Installation of member Secretary.

No changes

26.03 Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.

The minutes of the 25th BOS meeting held on, **10th January 2022** in Electronics and Telecommunication Engineering Department were placed on the table and were confirmed unanimously.

26.04 To discuss and suggest the action taken on

- Co/Po attainment of subjects taught in previous semester
- Result analysis of subjects taught in previous semester
- Stake holders feedback on review and design of curriculum
- In Sem, End Sem and Exit feedback on Teaching Learning & curriculum

i) Co/Po attainment of subjects taught in previous semester

- The complete process of CO/PO attainment has been discussed with the BoS Experts. The experts appreciated and approved the process of attainment. The overall attainment of all POs for the program has been carried and all PO's are achieved except PO2 and PO3.
- PO2 and PO3 are marginally achieved due to courses in odd semester (Wireless Sensor Network, Multimedia Communication, Embedded System and Network Analysis) and in even semester, extra-curricular activities.
- The more emphasis would be given on problem analysis through practice assignments on courses like WSN, NA, Embedded System, and Multimedia Communication.
- It is planned that awareness on participation in technical event and publications amongst students would be carried.



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Department of Electronics & Telecommunication Engineering

PO	Target Level	PO Benchmark in %	PO Benchmark inlevel	Attainment Level	Observations
PO1	2.99	75	2.24	2.25	Attained
PO2	2.89	75	2.17	2.15	Marginally Attained
PO3	2.64	75	1.98	1.96	Marginally Attained
PO4	2.09	70	1.46	1.58	Attained
PO5	2.75	75	2.06	2.10	Attained
PO6	2.37	70	1.66	1.78	Attained
PO7	2.49	70	1.74	2.11	Attained
PO8	2.93	70	2.05	2.36	Attained
PO9	2.51	75	1.88	1.97	Attained
PO10	2.58	70	1.81	2.00	Attained
PO11	2.23	70	1.56	1.69	Attained
PO12	2.60	70	1.82	2.03	Attained
PSO1	2.62	75	1.97	2.01	Attained
PSO2	2.74	75	2.06	2.10	Attained

Program level Course-PO matrix of all courses including first year courses

Semester	Course Code/Name	% AVG (A+B+C)	attainment														
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
III	ET2201 - Electronic Devices and Circuits/ ET2202 - Lab: Electronic Devices and Circuits	82.76	2.48	2.31	2.45		2.48					2.48	2.48	1.66	2.48	2.48	2.48
III	ET2203 - Digital Circuits and Fundamentals of Microprocessor / ET2204 - Lab: Digital Circuits and Fundamentals of Microprocessor	83.62	2.34	2.14	2.62		2.50					2.17	2.17	1.67	2.50	2.50	2.50
III	ET2205 - Electronic Measurement & Instrumentation / ET2206 - Lab: Electronic Measurement & Instrumentation	85.56	2.14	2.14			2.53					2.12	2.36		1.73	1.28	
III	ET2207 - Network Analysis	52.23	1.57	1.57			1.04					1.04	1.04		1.04	1.57	1.04
IV	ET2251 - Electromagnetic Fields	64.53	1.94	1.94								1.29	1.29		1.29	1.29	
IV	ET2252 - Microcontroller and Interfacing / ET2253 - Lab: Microcontroller and Interfacing	69.84	2.10	2.07	1.61	0.69	2.07	1.38				1.92	1.92	1.38	2.10	2.10	2.07
IV	ET2254 - Analog Communication / ET2255 - Lab: Analog Communication	69.72	2.09	1.97		0.66	1.33	1.32				1.99	1.39	1.32	1.39	2.09	1.33
IV	ET2256 - Control Systems / ET2257 - Lab: Control	71.18	2.14	2.14			2.14					2.14	2.14		1.42	1.42	2.14



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	Systems													
V	ET 2301 - ANALOG INTEGRATED CIRCUITS / ET 2302 - LAB: ANALOG INTEGRATED CIRCUITS	90.37	2.71	2.48	2.29	2.71				2.71	2.71	1.81	2.71	2.71
V	ET 2303 - FIELDS & RADIATING SYSTEMS	76.02	2.28	2.28	1.54	1.38				0.76	1.52		1.52	1.38
V	ET 2304 - SIGNALS & SYSTEMS / ET 2305 - LAB: SIGNALS & SYSTEMS	86.39	2.59	2.59	0.88	1.75	2.59			2.59	2.59		2.59	2.59
V	ET 2306 - LAB: ELECTRONICS WORKSHOP	88.10	2.64	2.64	2.56	2.05	1.76			2.64	2.64	1.76	2.64	2.05
VI	ET2351 - Digital Signal Processing / ET2352 - Lab: Digital Signal Processing	64.37	1.93	1.93	1.62	1.80				1.93	1.93	1.29	1.93	1.80
VI	ET2361 - PE I : Object Oriented Programming / ET2362 - Lab.: PE I: Object Oriented Programming	70.39	2.11	2.11	1.81	1.97				2.11	2.11	1.41	2.11	1.97
VI	ET2363 - PE I : Discrete Structures / ET2364 - Lab. : PE I : Discrete Structures	71.90	2.16	2.16	1.48	2.16				2.16	2.16	1.44	2.16	2.16
VI	ET2365 - PE I : Microprocessors and Peripherals / ET2366 - PE I : Lab. Microprocessors and Peripherals	60.58	1.82	1.87	1.92	1.59				1.59	1.59	1.21	1.82	1.87
VI	ET2367 - PE I : Electronic Instrumentation / ET2368 - PE I : Lab Electronic Instrumentation	68.88	2.07	1.88	1.41	1.41				1.75	1.91		2.07	1.41
VI	ET2371 - PE I : Fundamentals of Computing / ET2372 - Lab: PE I -Fundamentals of Computing	84.08	2.52	2.51	1.65	2.52				2.52	2.52	1.68	2.52	2.52
VI	ET2377 - PE II : Antenna Theory & Design / ET2378 - PE II : Lab. Antenna Theory & Design	66.37	1.99	1.99	1.97	2.01				1.83	1.83	1.33	1.99	1.98
VI	ET2379 - PE II : Digital System Design / ET2380- PE II : Lab. Digital system Design	66.26	1.99	1.99	2.11	2.11				1.85	1.85	1.25	1.99	2.11
VI	ET2381- PE II : Internet of Things (IoT) / ET2382- PE II : Lab. Internet of Things (IoT)	75.38	2.26	2.26	2.30	2.23				2.07	2.07	1.49	2.26	2.23
VI	ET2383- PE II : Optical Communication / ET2384- PE II : Lab. Optical	78.08	2.34	2.12		2.34				2.34	2.34		2.34	2.34



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	Communication															
VI	ET2385- PE II: Principles of image processing / ET2386- PE II: Lab. Principles of image processing	70.19	2.11	2.11		2.11				2.11	2.11	1.40	2.11	2.11	2.11	
VII	ET 2401–RF & Microwave / ET 2402 – Lab: RF & Microwave	84.14	2.52	2.55		2.36				2.52	2.52		2.52	2.52		
VII	ET2403 – Digital Communication / ET2404 – Lab: Digital Communication	82.77	2.48	2.26		2.52				2.52	2.33	1.68	2.52	2.48	2.52	
VII	ET 2411 – PEIII:Power Electronics	83.22	2.50	2.50	2.48					1.66	1.66		2.50	1.66		
VII	ET2412 – PE III: Data compression and encryption	67.84	2.04	1.33		1.36				0.68	1.36		1.36	0.68	1.36	
VII	ET 2413 –PE III :Analog VLSI Design	83.76	2.51	2.51	2.57					0.84	1.68		1.68	1.68		
VII	ET 2414 – PE III: Error Correcting Code	80.46	2.41	2.38						1.61	1.61		2.41	2.41		
VII	ET2415– PE III: Wireless Mobile Communication Systems	73.23	2.20	1.67						0.73	1.46		1.46	2.20		
VII	ET2421 – PE IV: Satellite Communication & Radar Engineering	89.07	2.67	2.26						1.78	1.78		1.78	2.67		
VII	ET2422- PE IV: Embedded System	54.92	1.65	1.28	1.36	0.90				1.10	1.10		1.10	1.65	0.90	
VII	ET 2423 – PE IV: Switching Theory	66.87	2.01	2.01	1.95					1.34	1.34		1.34	1.34		
VII	ET 2424 – PE IV: Topics in Machine Learning	80.16	2.40	2.40		2.40				2.40	2.40	1.60	2.40	0.80	2.40	
VII	ET 2425 – PE IV:Multimedia Communications	64.84	1.95	1.49	0.73	1.30				1.30	1.30		1.30	1.95	1.30	
VII	ET2431-PE V: Display Technology	86.65	2.60	2.37	1.55						1.73		1.73	1.73		
VII	ET2432-PE V:Biomedical Instrumentation	86.68	2.60							1.73	1.73		1.73	1.73		
VII	ET 2433 – PE V: Fuzzy Logic & Neural Network	75.00	2.25	2.25	1.61	1.50				1.50	1.50		1.50	0.75	1.50	
VII	ET 2434 -PE V: Wireless Sensor Networks	76.45	2.29	1.35	1.10					1.53	1.53		1.50	1.53		
VII	ET2435 – PE V : RF Circuit Design	86.58	2.60	2.32	2.77					1.73	1.73		1.73	1.73		
VII	ET2441-PE VI : CMOS VLSI Design	76.31	2.29	2.08	2.07	1.53				1.53	1.53		1.53	2.29	1.53	
VII	ET2442– PE VI: Digital Image Analysis for Remote Sensing	68.99	2.07	1.93		1.38				1.38	1.38		1.38		1.38	
VII	ET 2443- PE VI : Microwave Integrated circuits	85.14	2.55	2.52	2.52	1.68				0.85	1.70		1.70	1.70	1.68	
VII	ET2444 – PE VI: Communication Networks	70.88	2.13	2.13	1.77					1.42	1.42		1.42	2.13		
VII	ET2446 – PE VI:PLCs& SCADA	90.37	2.71	2.79	1.86					1.81	1.81		1.81	1.81		
VII	ET2409: Mini Project	75.82	2.27	2.27	1.52	1.52	2.27	1.89	1.89	2.27	2.27	2.27	1.52	2.27	2.27	2.27



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VII	ET2410: Campus Recruitment Training (CRT)	91.41	2.74	2.74			2.74		1.83	2.74	2.74	2.74		2.74	2.74	2.74
VIII	ET2452: Extra curricular Activity Evaluation / Internship	67.10	2.01	2.01	1.58	1.58	2.01	1.05	1.05	1.05	2.01	2.01	1.34	2.01	2.01	2.01
VII	ET2451 : Major Project	84.29	2.53	2.48	2.33	2.33	2.53	2.15	2.29	2.29	2.53	2.53	2.36	2.53	2.53	2.53

Evaluation of each PO & PSO

Weightage	PO 1		PO 2		PO 3		PO 4		PO 5		PO6		PO7		PO8		PO9		PO10		PO11		PO12		PSO1		PS O2		
	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	
80%	2	2	2	2	2	1	1	1	2	1	2	1	2	2	2	2	1	2	1	2	1	2	1	2	1	2	1	2	1
	9	2	8	1	5	8	8	3	6	9	2	6	36	0	92	3	39	8	47	8	04	4	49	1	9	52	8	67	9
	74.03%		74.13%		73.23%		73.23%		74.06%		72.71%		85.88%		80.57%		76.67%		76.09%		73.06%		76.56%		74.53%		74.17%		
20%	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	
	0	4	0	2	0	3	0	4	0	5	0	4	00	4	00	3	00	5	00	4	00	4	00	4	00	5	00	5	00
	80.28%		75.41%		76.73%		81.46%		84.22%		82.30%		81.81%		79.67%		84.59%		82.47%		83.07%		83.02%		83.85%		85.55%		
Total	2	2	2	2	2	1	1	1	2	2	2	1	2	2	2	2	1	2	1	2	1	2	1	2	1	2	1	2	1
	9	2	8	1	6	9	0	5	7	1	3	7	49	1	93	3	51	9	58	0	23	6	60	0	62	0	74	1	
	75.28%		74.40%		74.02%		75.60%		76.28%		75.14%		84.90%		80.39%		78.56%		77.57%		75.75%		78.05%		76.66%		76.66%		

ii) Result analysis of subjects taught in previous semester

The overall and subject wise result analysis of Even Term 2021-22 has been shown to the BoS Experts.

S.N.	Semester	Pass %
1	IV	86.534
2	VI	90.526
3	VIII	100.00

As the results of all the semesters are above 80%, no action is requiring to be taken.

iii) Stake holders feedback on review and design of curriculum



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S.N.	Stakeholder	Feedback	Action Taken
1.	Parents	1. Update curriculum to cater to the needs of the future of the industry. Faculty must be empathetic towards students and provide an education instead of reading from PPT.	1. For catering future needs of industries specialized courses are included in the new SoE 22. Also judicious combination of PPT and Chalk and Duster is suggested to the faculty as per the requirement of the subject.
		2. Exam pattern should be changed, options in question papers required.	2. Sentiments of parents and students regarding options in question paper is communicated to DAM office.
		3. Improve library facility.	3. Information of online library and facilities available in the library are communicated to students. Reference material for GATE is purchased and made available in Departmental library
2	Alumni	1. Industry institution interaction should be strengthened	1. For strengthening ,Industry institution interaction , MoU are signed with 20 + Industries , industrial visits are organized, more than 25 technical activities including guest lectures, workshops, seminars, etc. are taken. In addition industry expert is member of BoS and industry; research centre electives are included in the SoE
		2. Compulsory seminar should be taken for developing self confidence	2. For overall personality, soft skills & self-confidence development of students YCAP Audit course is specially started from III semester itself.
		3. Core Companies should be visited to college for placements	3. Core companies like Cerium Systems, L&T Technologies Services and Blue berry semiconductor visited last year for campus placement. Efforts are also being taken by T & P office for campus placement of few more core companies
		4. Courses on currents trends in technical employability must be increased	4. The courses like Machine learning, IoT, PLCs and SCADA etc are introduced to improve technical employability of students.
3	Employers	1. Some Skill based content in curriculum to solve local and global problems must be added	1. To develop analytical and practical skills and solve local and global problems, activities like Mini Projects in all hardware labs, Industry based major projects and project based learning are added.



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		2. Current syllabus must be updated with current trends in industry	2. For updating syllabus as per industry requirement, SoE is modified after every 04 years in consultation with Experts from Industries as well as inputs received from Employers, Alumni etc.
4	Faculty (points discussed in 25 BoS meeting)	<p>ET2385- PE II: Principles of image processing: Following topics need to add in syllabus Unit 3: Filtering in spatial and frequency domain, Unit 5: Clustering Unit 6: Feature Extraction</p> <p>ET2444 – PE VI: Communication Networks: Following topics need to add in syllabus Unit 3: Congestion and Congestion Control Mechanism, Unit 4: Introduction, virtual circuit and datagram networks, internet protocol, routing algorithm, routing in the internet, broadcast and multicast routing</p> <p>ET 2434 -PE V: Wireless Sensor Networks: Unitization of syllabus is needed to revise.</p> <p>ET2446 PE VI: PLCs and SCADA : Unitization of syllabus is needed to revise.</p>	Incorporated in the said syllabus.

iv) In Sem, End Sem and Exit feedback on Teaching Learning & curriculum

All feedback has been discussed with BoS Experts.

Semester	No. of faculty with feedback more than 90%		No. of faculty with feedback more than 80%		No. of faculty with feedback less than 80% and greater than 60%	
	In-sem	End-sem	In-sem	End-sem	In-sem	End-sem
IV	06/15	13/15	07/15	02/15	02/15	-
	40%	86.66%	46.66%	13.33%	13.33%	-
VI	07/13	03/09	06/13	06/09	-	-
	53.46%	33.33%	46.15%	66.66%	-	-

Since the feedback is more than 60% for all faculty members, no action is required to be taken.



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26.05 To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2018 & B.Tech 2020) of the Undergraduate and Post graduate programs conducted under the Board. To approve and ratify SoE22 and all syllabi of B.Tech and M.Tech I & II year

- No Changes have been proposed in the Scheme of Examination 2018 of Undergraduate and Post graduate programs.
- The course Fundamentals of Internet of Things to be included as Open Elective I and Open Elective II in V semester and VI semester respectively of B.Tech 2020 has been proposed and approved by experts.
- The Experts approved and confirmed SoE 22 and II, III, IV semester syllabi of B.Tech and M.Tech I & II year.
- The Expert suggested following minor changes in syllabi of SoE22 B.Tech
In the course Digital Logic Design Remove the topic Excess 3 code; modify the syllabus as per the Switching & Finite Automata Theory by Zvi Kohavi, Niraj K. Jha book.
- In the course Passive RF Circuit (M.Tech I sem course) experts suggested to swap unit 5 with Unit 6.

26.06 To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2018 & B.Tech 2020 Schemes of Undergraduate and Post graduate programs conducted under the Board.

No Changes have been proposed

26.07 To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate and

Experts suggested changes in the books for the following courses

ET2201 Electronics devices and circuits :

The reference book Electronic Devices and Theory, Boylestad, Nashelsky, 9th. Edition May 2010, PHI shifts to text book.

ET2252 Microcontroller & Interfacing:

To add The book Fundamentals of microcontrollers & applications in Embedded systems by Ramesh Gaonkar in the syllabus

Postgraduate Programs.

26.08 To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under-Graduate and Post Graduate programs.

Experts suggested modifying the experiment list for all lab courses of Under-Graduate and Post Graduate programs



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26.09 To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board.

No changes have been suggested

26.10 To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.

26.11 To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Odd Term 2022-23

The panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Odd Term 2022-23 have been prepared and proposed.

26.12 To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Odd Term 2022-23

The list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Odd Term 2022-23 have been prepared and proposed.

26.13 To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination Odd Term 2022-23

The panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination Odd Term 2022-23 have been prepared and proposed.

26.14 Preparation of Electronic question Bank UG courses according to SoE 2018. To review solutions to all questions of Electronic Question Banks for all courses.

Electronic question bank UG courses according to SoE 2018 are prepared/ updated. Solutions to all questions of Electronic Question Banks for all courses are reviewed.

26.15 To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses.

No changes have been suggested



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26.16 To discuss and propose scheme for Minor an Honor course and its syllabus. Discussed and proposed Certificate courses and value added courses in 2022-23.

Scheme for Honor course and its syllabus is proposed and discussed; minor Changes have been suggested by experts and were incorporated in Honors in Computer Vision & Automation.

In the course ETH 132 Industrial Automation and Robotics

- Changes in syllabus is below 20%
- Unitization of syllabus is revised

Following Certification courses and Value added courses were proposed and approved by experts.

- Image processing and Computer Vision Applications of duration 30 Hrs
- Advances in Embedded system and IoT of duration 30 Hrs
- Advanced CMOS VLSI Design of duration 30 Hrs

26.17 Any other matter with the permission of the Chair.

- It is suggested by the experts that every undergraduate course unit will not reflect Contemporary issues, hence it should be remove from each unit and “recent trend /topic related to course” should be added at the end of sixth unit.
- Through the observations on post graduate curriculum design, experts have recommended reconciled course curriculum as paragraph instead of unitized one.

Chairman was authorized to finalize the SOE.

The meeting concluded with thanks to the Experts.

Dr. M.S. Dorle
Member Secretary
BoS, ET

Dr. M.S. Narlawar
Chairman & HoD, ET



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YCCE/ET/MOM/CDW/3

Curriculum development workshop: 20th July 2022

Minutes of the Curriculum Development Workshop

The Curriculum Development Workshop was held at Department of Electronics & Telecommunication Engineering on 20/07/2022, Wednesday

Agenda of CDW

1. To discuss and finalize the SoE & syllabi (II, III, IV semester) of ~~B.Tech~~ ELECTRONICS & TELECOMMUNICATION ENGG.
2. To discuss and finalize the SoE, & Syllabi (I, II semester) of M.Tech Communication Engineering.

The subject experts were as follows.

Sr.No.	Name	Signature
1	Dr. A.G.Keskar, VNIT Nagpur.	
2	Dr. P.K. Sharma, VNIT Nagpur	



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The meeting was attended by the following faculty members.

Sr. No.	Name	Signature	Sr. No.	Name	Signature
1	Dr.M.M.Mushrif		15	N.A.Pande	
2	Dr M.D.Chawhan		16	Dr.M.L.Keote	
3	R.P.Deshmukh		17	S.A.Desai	
4	Dr. P.W. Raut		18	Dr.V.D. Bondre	
5	Dr. D.B.Bhoyar		19	Dr.P.D.Dorge	
6	Dr. Y.U.Chitriv		20	Dr.B.Y. Masram	
7	Dr. A.D.Belsare		21	Y. S. Kale	
8	Dr. N.D.Rehpade		22	A.A.Madankar	
9	K.P.Kamble		23	R.P.Kamdi	
10	S.S.Chiwande		24	D.K.Thote	
11	A.V.Choudhari		25	M.S.Patil	
12	Dr. S.S.Khade		26	V.B.Niranjane	
13	Dr. C.S.Gode		27	Dr.R.S.Keote	
14	M.S.Ghute		28	S.R.Nitnware	



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YCCE/ET/MOM/CDW/3

Curriculum Development Workshop

20th July 2022

Minutes of the Curriculum Development Workshop

The Curriculum Development Workshop was held at Department of Electronics & Telecommunication Engineering on 20/07/2022, Wednesday in departmental library ET YCCE.

Agenda of CDW

1. Finalization of B.Tech Scheme of Examination.
2. To discuss and finalize the syllabus of II, III & IV semester B.Tech Electronics & Telecommunication Engineering.
3. Finalization of M.Tech Scheme of Examination
4. To discuss and finalize the syllabus of I & II semester M.Tech Communication Engineering.

The subject experts present were as follows.

Sr. No.	Name
1	Dr. A.G.Keskar, VNIT, Nagpur
2	Dr. Prabhat Kumar Sharma, VNIT Nagpur



Nagar Yuwak Shikshan Sanstha's

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Department of Electronics & Telecommunication Engineering

SN	Name	Signature	SN	Name	Signature
1	Dr. M. M. Mushrif	Present	15	S.S.Chiwande	Present
2	Dr.M.D. Chawhan	Present	16	Dr.M.L.Keote	Present
3	R.P.Deshmukh	Present	17	Dr. P. D. Dorge	Present
4	Dr. P.W. Raut	Present	18	S.A.Desai	Present
5	Dr. D.B.Bhojar	Present	19	Dr.V.D. Bondre	Present
6	K.P.Kamble	Present	20	Dr.B.Y. Masram	Present
7	Dr. Y.U.Chitriv	Present	21	Y. S. Kale	Present
8	Dr. A.D.Belsare	Present	22	V.B.Niranjane	Present
9	Dr. N.D.Rehpade	Present	23	A.A.Madankar	Present
10	A.V.Choudhari	Present	24	R.P.Kamdi	Present
11	N.A.Pande	Present	25	M.S.Patil	Present
12	M.S.Ghute	Present	26	Dr. R.S.Keote	Present
13	Dr. S.S.Khade	Present	27	S.R.Nitnaware	Present
14	Dr.C.S.Gode	Present			

Leave of absence was granted to –

SN	Name
1	Prof.D.K.Thote, ET YCCE



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The following suggestions on SoE for UG Electronics & Telecommunication Engineering were given in the Curriculum Development Workshop (CDW)

1. Scheme of Examination

- i. The experts and faculty members discussed & decided to remove the Course Sensors and Instrumentation from II semester and add course Digital logic Design with laboratory in II semester & Digital system design with laboratory to be shifted from professional elective to core in III semester.
- ii. The experts suggested the Course Signals & Systems can be in III semester instead of IV semester. The course Probability Theory and Statistics to be shifted to IV semester from III semester. The course Control System can be in IV semester.
- iii. The experts suggested to include the course Computer Organization in III semester. & course Soft Computing & its application to be included as a professional elective (PEIII) in semester VI.
- iv. The expert suggested title of course PLC & SCADA (PE & OE) to be changed to Industrial Automation.

2. The syllabi of II, III and IV semester B.Tech in Electronics & Telecommunication Engineering

1. **In the course Digital logic Design**, the expert suggested refers the Switching & Finite Automata Theory by Zvi Kohavi, Niraj K. Jha book for framing the syllabus. Verilog portion from syllabus to be deleted.
2. **In the course Electronics Devices and Circuits**, the expert suggested unit 1 Semiconductor diodes to be deleted and Design of amplifier, oscillator should be added in the syllabus.
3. **In the course Network Theory**, the expert suggested no changes in the syllabus.
4. **In the course Analog Communication**, the expert suggested to swap unit 4 with unit 6 and title of unit 4 to be changed.
5. **In the course Control Systems**, the expert suggested no changes in the syllabus.
6. **In the course Microcontroller and Interfacing**, the expert suggested no changes in the syllabus.

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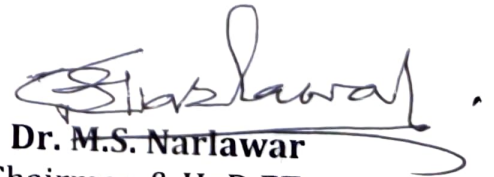
7. In the course **Object Orient Programming**, the expert suggested no changes in the syllabus.

3. The SoE & syllabi of I, II semester M.Tech in Communication Engineering

1. The scheme of examination and syllabus of M.Tech in Communication Engineering was discussed with the experts.
2. Following new courses to be added as professional electives were proposed and approved by experts.
 - Optical Communication
 - Millimeter wave communication
 - RISC & CISC Processors
3. The experts suggested the title of the course Mathematical Foundations for communication engineering to be changed to Probability & Stochastic Processes.
4. In the course **Lab advanced digital communication**: the expert suggested to include hardware based experiments
5. The experts suggested the title of the course Advanced Antenna Theory to be changed to Antenna Design.
6. The experts suggested the title of the course Optical communication to be changed to Optical communication & Network.



Dr. M.S. Dorle
Member Secretary
BoS, ET



Dr. M.S. Narlawar
Chairman & HoD ET



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YCCE/ET/FORMAT/BOS/MOM/28

Minutes of the 28th BOS Meeting

Date: 22nd July 2023

The 28th meeting of the Board of Studies in Electronics & Telecommunication Engineering was held on Saturday, 22nd July 2023 at 10:00 am in the departmental Library ET, YCCE, Nagpur.

The meeting was attended by the following members of Board of Studies.

Sr. No.	Name	Signature
01	Dr.A.G.Keskar, Expert,VNIT, Nagpur	Absent
02	Dr. R. B. Deshmukh, Expert,VNIT, Nagpur	Present
03	Dr.S.L.Badjate ,VC Nominee, Principal S. B .Jain college of Engineering, Nagpur	Present
04	Mr. Ranjit Singh, Industry person, M.D. & CEO, Syslogix systems Pvt. Ltd, Nagpur	Present
05	Mr. Aniruddha Kalbande, Alumni	Present

S. No.	Name	Signature	S No.	Name	Signature
1	Dr. M. M. Mushrif	Present	15	M.S.Ghute	Absent
2	Dr.P.L.Zade	Present	16	S.S.Chiwande	Present
3	Dr.M.D. Chawhan	Absent	17	Dr.M.L.Keote	Present
4	R.P.Deshmukh	Present	18	Dr. P. D. Dorge	Present
5	Dr. P.W. Raut	Present	19	S.A.Desai	Present
6	Dr. D.B.Bhoyar	Present	20	Dr.V.D. Bondre	Present
7	K.P.Kamble	Present	21	Dr.B.Y. Masram	Present
8	Dr. Y.U.Chitriv	Present	22	Y. S. Kale	Absent
9	Dr. A.D.Belsare	Absent	23	V.B.Niranjane	Present
10	Dr. N.D.Rehpade	Present	24	A.A.Madankar	Absent
11	A.V.Choudhari	Present	25	D.K.Thote	Present
12	N.A.Pande	Present	26	M.S.Patil	Present
13	Dr. S.S.Khade	Present	27	Dr. R.S.Keote	Present
14	Dr.C.S.Gode	Present			

Approved By: BoS Electronics & Telecommunication Engg.



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Leave of absence was granted to –

Sr. No.	Name
1	Dr.A.G.Keskar, Expert,VNIT, Nagpur
2	Dr.M.D. Chawhan ET,YCCE
3	M.S.Ghute ,ET,YCCE
4	Y. S. Kale ,ET,YCCE
5	A.A.Madankar, ET,YCCE

The following agenda points were discussed and deliberated in the meeting.

28.01 Welcome of new members.

BoS Chairman Dr. M. S. Narlawar welcomed all BoS members. The chairman also welcomed new members Dr. P.L. Zade and Mr. Anirudhha Kalbande Alumnus.

28.02 Installation of member Secretary.

No changes

28.03 Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.

The minutes of the 27th BOS meeting held on, **23rd January 2023** in Electronics and Telecommunication Engineering Department were placed on the table and were confirmed unanimously.

28.04 To discuss and finalize the Scheme of Examination SoE 2023 of Electronics & Telecommunication Engineering Undergraduate programmes, framed as per NEP 20 Guidelines, issued by Government of Maharashtra through GR No: NEP-2022/(67/23) / DTE-2 dated 04.07.2023. To approve SoE23 and all syllabi of B.Tech I Year.

The Scheme of Examination SoE 2023 of Electronics & Telecommunication Engineering Undergraduate programme, framed as per NEP 20 Guidelines, issued by Government of Maharashtra through GR No: NEP-2022/(67/23) / DTE-2 dated 04.07.2023, has been discussed with BoS experts.

The guidelines created by the Dean (Academic Matters) in accordance with the GR and the key elements of the GR have been thoroughly examined. 176 credits in total have been allocated among the different course categories.

BoS experts appreciated the efforts taken by the department to formulate the SoE as per the NEP 2020 guidelines defined by GoM.

As per the suggestions of BoS experts, complete VIII semester must be provided with Internship as the students are busy as intern in the respective assigned firm and practically, it's become difficult for them to cope with both college and industry timings.

The suggestions of BoS experts have been forwarded to Dean Academic Matters for further approval.

Approved By: BoS Electronics & Telecommunication Engg.



Department of Electronics & Telecommunication Engineering

28.05 To discuss and suggest the action taken on

- i) Co/Po attainment of subjects taught in previous semester**
- ii) Result analysis of subjects taught in previous semester**
- iii) Stake holders feedback on review and design of curriculum**
- iv) In Sem, End Sem and Exit feedback on Teaching Learning & curriculum**

i) Co/Po attainment of subjects taught in previous semester

Co/Po attainment of subjects taught in previous semester is in Progress.

ii) Result analysis of subjects taught in previous semester

The overall and subject wise result analysis of EVEN Term 2022-23 has been shown to the BoS Experts.

S.N.	Semester	Pass %
1	IV	69.72
2	VI	79.07
3	VIII	100

Course result with less than 75%

SN	SEM	Courses Name	Results (%)
1.	VI	ET 2363 PE I : Discrete Structure	70.27%

Action Taken:

1. Revision classes before MSEs will be taken for all the students.
2. Solving old MSE & ESE Question papers from students.

IV sem Result		
Range	Name of Subject	Result
Result between 75 to 80%	Microcontroller and Interfacing	79.05%
Result between 80 to 90 %	1.Advance Mathematical Technique 2. Electromagnetic Fields 3.Control system 4.Analog Communication	88.73% 87.56% 88.52% 84.13%



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VI sem Result		
Range	Name of Subject	Result
Result between 80 to 90 %	Digital Signal Processing PE II : Antenna Theory & Design	84.31% 80.95%
Result above 90%	1. Fundamental of management 2. PE I : Microprocessor and Peripherals 3. PE I : Electronic Instrumentation 4. PE I : Object oriented programming 5. PE I : Fundamentals of Computing 6. PE II : Digital system Design 7. PE II : Internet of Things (IoT) 8. PE II : Optical Communication 9. PE II : Principles of image processing	94.88% 92.50% 95.35% 100% 100% 100% 100% 100% 95.35%

iii) Stake holders feedback on review and design of curriculum

S.N.	Stakeholder	Feedback	Action Taken
1	Parents	Provide internship to all students even if placed or not placed	Internship for non-placed students through MoUs signed industries, Internshala and AICTE internship portal is a done.
		College should conduct additional software courses required in industry	<ul style="list-style-type: none"> Many value added courses are conducted in different departments which students can attend. Many software courses such as OOPS, Machine learning, Fundamentals of computing are in the SoE.
2	Alumni	Focus on practical implementation to develop students skills	<ul style="list-style-type: none"> Project Based Learning activity already taken for one course each in 4th and 6th semester Mini projects are taken in hardware related laboratory
		Focus on programming languages & Include industry level topics on syllabus	<ul style="list-style-type: none"> More professional elective courses aligned with industry are added in SoE through which industry based and programming skills will be enhanced. In addition through Value Added Courses engaged by industry persons the students are made industry ready

Approved By: BoS Electronics & Telecommunication Engg.



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		Must include proper training in MATLAB & Simulink	Through Value added and Certification course initiated for the students from 3 rd sem itself they get appropriate training on MATLAB & Simulink
		Provide the software classes	YCAP is initiated from 3 rd sem to groom software competencies of student
		Updation in certain course syllabi required	Not only every year syllabus is revised but also new courses are introduced to suit the current trends of industry
3	Employers	Current syllabus must be updated with current trends in industry	For updating syllabus as per industry requirement, SoE is modified after every 04 years in consultation with Experts from Industries as well as inputs received from Employers, Alumni etc.
4	Faculty	1) ET2254-Analog Communication The topic TV Fundamentals and digital satellite television needs to remove from syllabus. 2) ET 2443- PE VI: Microwave Integrated circuits Unit 2 need to split in two units and merge unit 5 and unit 6 to make one unit.	Incorporated in the said syllabus.
5	Students	Programing languages, Entrepreneurship related subjects should be added. Lab classes should be given more importance so that we learn practical knowledge and projects development.	<ul style="list-style-type: none"> • Subject like Object Oriented Programming ,Algorithm and data structure, Python etc. were included in curriculum • Already department conducted many workshops through entrepreneurship cell for students. Also we have facility of Entrepreneurship cell for students including management subjects. • In every lab course we have mini project and most of the Major Projects are Industry aligned to improve practical knowledge of the students

Approved By: BoS Electronics & Telecommunication Engg.



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iv) In Sem, End Sem and Exit feedback on Teaching Learning & curriculum

All feedbacks have been discussed with BoS Experts.

Semester	No. of faculty with feedback more than 80%		No. of faculty with feedback less than 80% and greater than 60%		No. of faculty with feedback less than 60%	
	In-sem	End-sem	In-sem	End-sem	In-sem	End-sem
IV	13/13	13/13	NIL	NIL	NIL	NIL
	100%	100%	-	-	-	-
VI	14/14	14/14	NIL	NIL	NIL	NIL
	100%	100%	-	-	-	-

28.06 To discuss and suggest the minor changes in the syllabi of various courses in B.Tech 2020 & B.Tech 2022 Schemes of Undergraduate and Post graduate programs conducted under the Board.

No changes were proposed by any members in syllabi of various courses in B.Tech 2020 & B.Tech 2022 Schemes of the Undergraduate and Post graduate programs conducted under the Board.

28.07 To discuss and suggest the changes in the books/ Reference Books/ Literature Sources Published in the syllabi of courses in various Schemes of Undergraduate and Postgraduate Programs.

No Changes were proposed by any members in the books/ Reference Books/ Literature Sources Published in the syllabi of courses in various Schemes of Undergraduate and Postgraduate Programs.

28.08 To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under-Graduate and Post Graduate programs.

No Changes were proposed by any members in the laboratory courses of Under-Graduate and Post Graduate programs.

28.09 To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board.

No suggestions were proposed by any members. Finally, it was unanimously resolved that the existing Academic Regulations governing the Undergraduate and Post graduate programs be continued without any corrections.

Approved By: BoS Electronics & Telecommunication Engg.



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28.10 To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.

28.11 To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Odd Term 2022-23

The panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Odd Term 2023-24 will be decided after the notification received from CoE.

28.12 To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Odd Term 2022-23

The panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Odd Term 2023-24 will be decided after the notification received from CoE.

28.13 To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination Odd Term 2022-23

The panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Odd Term 2023-24 will be decided after the notification received from CoE.

28.14 Preparation of Electronic question Bank UG courses according to B.Tech SoE 2020 & 2022 To review solutions to all questions of Electronic Question Banks for all courses

Electronic question bank UG courses according to B.Tech SoE 2020 are prepared/ updated. Solutions to all questions of Electronic Question Banks for all courses are reviewed. Preparation of Electronic question Bank UG courses according to B.Tech. SoE 2022 is in process.

28.15 To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses.

No changes have been suggested.

28.16 To discuss and propose scheme for Minor and Honor course and its syllabus. To Discuss and propose Certificate courses and value-added courses in odd term 2023-24.

The Department Honor program titled **Computer Vision and Automation** is renamed as **Computational Intelligence for Automation** from the session 2023-24

The course has been in collaboration with Fireblaze Technologies Private Ltd. Nagpur

No changes were proposed for Honor course syllabi.

Approved By: BoS Electronics & Telecommunication Engg.



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Following Certification courses and Value added courses were proposed and approved by experts.

SN	Title of Course	Sem	Course Hours	Mode Of Training	Proposed Dates of Conduction & Total Hours In Course	No Of Students Expected To Attend Cert / Vac
1	Hands on training on tools used for mixed signal design and it's application	V & VII	30 Hrs	Offline	24-28 July 2023	40
2	Machine Learning with practical application using Python	V & VII	30 Hrs	Offline	14-19 July 2023	50
3	Wireless Mobile Communication & Cyber Security	V & VII	30 Hrs	Offline	2-6 August 2023	30

28.17 Any other matter with the permission of the Chair.

All suggestions have been accepted and are being forwarded to the Academic Council for consideration.

The meeting concluded with thanks to the Experts.

Dr. M.S. Dorle
Member Secretary
BoS, ET

Dr. M.S. Narlawar
Chairman & HoD, ET



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YCCE/ET/FORMAT/BOS/MOM/27

Minutes of the 27th BOS Meeting

Date: 23rd January 2023

The 27th meeting of the Board of Studies in Electronics & Telecommunication Engineering was held on Monday, 23rd January 2023 at 3:00 pm in the departmental Library ET, YCCE, Nagpur.

The meeting was attended by the following members of Board of Studies.

Sr. No.	Name	Signature
01	Dr.A.G.Keskar, Expert,VNIT, Nagpur	Present
02	Dr. R. B. Deshmukh, Expert,VNIT, Nagpur	Present
03	Dr.S.L.Badjate ,VC Nominee, Principal S. B .Jain, Nagpur	Absent
04	Mr. Ranjit Singh, Industry person, M.D. & CEO, Syslogix systems Pvt. Ltd, Nagpur	Absent
05	Mr. Sagar Ghormade, PG Alumni	Absent

S. No.	Name	Signature	S No.	Name	Signature
1	Dr. M. M. Mushrif	Present	15	S.S.Chiwande	Present
2	Dr.M.D. Chawhan	Present	16	Dr.M.L.Keote	Present
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4	Dr. P.W. Raut	Present	18	S.A.Desai	Present
5	Dr. D.B.Bhoyar	Present	19	Dr.V.D. Bondre	Present
6	K.P.Kamble	Present	20	Dr.B.Y. Masram	Present
7	Dr. Y.U.Chitriv	Absent	21	Y. S. Kale	Present
8	Dr. A.D.Belsare	Present	22	V.B.Niranjane	Present
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10	A.V.Choudhari	Present	24	R.P.Kamdi	Present
11	N.A.Pande	Present	25	D.K.Thote	Present
12	Dr. S.S.Khade	Present	26	M.S.Patil	Present
13	Dr.C.S.Gode	Present	27	Dr. R.S.Keote	Present
14	M.S.Ghute	Present	28	S.R.Nitnaware	Present

Approved By: BoS Electronics & Telecommunication Engg.



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Leave of absence was granted to –

Sr. No.	Name
1	Dr.S.L.Badjate ,VC Nominee, Principal S. B .Jain, Nagpur
2	Mr. Ranjit Singh, Industry person, M.D. & CEO, Syslogix systems Pvt. Ltd, Nagpur
3	Mr. Sagar Ghormade, PG Alumni
4	Dr. Y.U.Chitriv, ET, YCCE

The following agenda points were discussed and deliberated in the meeting.

27.01 Welcome of new members.

BoS members have been welcomed by the Chairman.

27.02 Installation of member Secretary.

No changes

27.03 Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.

The minutes of the 26th BOS meeting held on, 3rd August 2022 in Electronics and Telecommunication Engineering Department were placed on the table and were confirmed unanimously.

27.04 To discuss and suggest the action taken on

- Co/Po attainment of subjects taught in previous semester
- Result analysis of subjects taught in previous semester
- Stake holders feedback on review and design of curriculum
- In Sem, End Sem and Exit feedback on Teaching Learning & curriculum

i) Co/Po attainment of subjects taught in previous semester

Co/Po attainment of subjects taught in previous semester is in Progress.

ii) Result analysis of subjects taught in previous semester

The overall and subject wise result analysis of ODD Term 2022-23 has been shown to the BoS Experts.

S.N.	Semester	Pass %
1	VII	70.20
2	V	54.79

Approved By: BoS Electronics & Telecommunication Engg.



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Courses results with less than 75%

SN	SEM	Courses Name	Results (%)
1.	V	ET 2301 AIC	70.18
2.		ET 2304 S&S	60.27
3.	VII	ET2434 WSN	57.45
4.		ET 2441 CMOS VLSI DESIGN	68
5.		WT 2442 DIARS	60

Action Taken:

1. Remedial classes were taken in all the courses for students with less than 40% marks.
2. Revision classes before MSEs will be taken for all the students from EVEN 2022-23.
3. Solving old MSE & ESE Question papers from students

iii) Stake holders feedback on review and design of curriculum

S.N.	Stakeholder	Feedback	Action Taken
1.	Parents	Provide internship to all students even if placed or not placed	Internship for non-placed students through MoUs signed industries, Internshala and AICTE internship portal.
		College should conduct additional software courses required in industry	<ul style="list-style-type: none">• Many value added courses are conducted in different departments which students can attend.• Many software courses such as OOPS, Machine learning, Fundamentals of computing are in the SoE.
		Students should be encouraged for languages like C++, Java, Python and how to work in IT companies	Courses based on C++ and Python included in SoE
2	Alumni	Focus on practical implementation to develop students skills	<ul style="list-style-type: none">• Project Based Learning activity already taken for one course each in 4th and 6th semester• Mini projects are taken in hardware related laboratory
		Focus on programming languages & Include industry level topics on syllabus	<ul style="list-style-type: none">• More professional elective courses aligned with industry are added in SoE through which industry based and programming skills will be enhanced.

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Department of Electronics & Telecommunication Engineering

			<ul style="list-style-type: none"> In addition through Value Added Courses engaged by industry persons the students are made industry ready
		Must include proper training in MATLAB & Simulink	Through Value added and Certification course initiated for the students from 3 rd sem itself they get appropriate training on MATLAB & Simulink
		Provide the software classes	YCAP is initiated from 3 rd sem to groom software competencies of student
		Updation in certain course syllabi required	Not only every year syllabus is revised but also new courses are introduced to suit the current trends of industry
3	Employers	Current syllabus must be updated with current trends in industry	For updating syllabus as per industry requirement, SoE is modified after every 04 years in consultation with Experts from Industries as well as inputs received from Employers, Alumni etc.
4	Faculty	The course Fundamentals of Internet of Things to be included as Open Elective I and Open Elective II in V semester and VI semester respectively of B.Tech 2020 has been proposed and approved by experts.	Incorporated in the said B.Tech SoE 2020.
5	Students	<ul style="list-style-type: none"> Programming languages, Entrepreneurship related subjects should be added. Lab classes should be given more importance so that we learn practical knowledge and projects development. 	<ul style="list-style-type: none"> Subject like Object Oriented Programming ,Algorithm and data structure, Python etc. were included in curriculum Already department conducted many workshops through entrepreneurship cell for students. Also we have facility of Enterprenurship cell for students including management subjects. In every lab course we have mini project and most of the Major Projects are Industry aligned to improve practical knowledge of the students

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iv) In Sem, End Sem and Exit feedback on Teaching Learning & curriculum

All feedbacks have been discussed with BoS Experts.

Semester	No. of faculty with feedback more than 80%		No. of faculty with feedback less than 80% and greater than 60%		No. of faculty with feedback less than 60%	
	In-sem	End-sem	In-sem	End-sem	In-sem	End-sem
V	11/12	11/12	1/12	1/12	NIL	NIL
	91.66%	91.66%	8%	8%	-	-
VII	28/31	26/31	3/31	5/31	NIL	NIL
	90.32%	83.87%	9%	16.2%	-	-

No Faculty was having feedback less than 60%.

27.05 To discuss and suggest the changes in the Scheme of Examination (known as Autonomous B.Tech 2020 & SoE 2022) of the Undergraduate and Post graduate programs conducted under the Board. To approve and ratify SoE22 and all syllabi of B.Tech and M.Tech I & II year

- No Changes have been suggested in the Scheme of Examination (known as Autonomous B.Tech 2020 & SoE 2022) of the Undergraduate and Post graduate programs.
- The Experts approved and confirmed SoE 22 and II, III, IV semester syllabi of B.Tech and M.Tech I & II year.

27.06 To discuss and suggest the minor changes in the syllabi of various courses in B.Tech 2020 Schemes of Undergraduate and Post graduate programs conducted under the Board.

The Expert suggested and approved following minor changes in syllabi of B.Tech 2020

- 1) In the course ET2254 - Analog Communication
Remove the topics TV Fundamentals and digital satellite television.
- 2) In the course ET 2443- PE VI: Microwave Integrated circuits
Split unit 2 in two units and merge unit 5 and unit 6 to make one unit.

27.07 To discuss and suggest the changes in the books/ Reference Books/ Literature Sources Published in the syllabi of courses in various Schemes of Undergraduate and Postgraduate Programs.

No Changes have been suggested

27.08 To discuss and approve the list of experiments, wherever there is a change, in the

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laboratory courses of Under-Graduate and Post Graduate programs.

Experts suggested modifying the experiment list for ET 2255- lab Analog Communication

27.09 To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board.

No changes have been suggested

27.10 To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.

27.11 To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Even Term 2022-23

The panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Even Term 2022-23 have been prepared and proposed.

27.12 To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Even Term 2022-23

The list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Even Term 2022-23 have been prepared and proposed.

27.13 To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination Even Term 2022-23

The panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination Even Term 2022-23 have been prepared and proposed.

27.14 Preparation of Electronic question Bank UG courses according to B.Tech SoE 2020 & 2022. To review solutions to all questions of Electronic Question Banks for all courses.

Electronic question bank UG courses according to B.Tech SoE 2020 are prepared/ updated. Solutions to all questions of Electronic Question Banks for all courses are reviewed.

27.15 To discuss and suggest the changes/additions/deletions/alterations in the existing

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Evaluation Process for theory and other courses.

No changes have been suggested.

27.16 To discuss and propose scheme for Minor and Honor course and its syllabus. Discussed and proposed Certificate courses and value added courses in 2022-23.

No changes have been proposed for Honor course and its syllabi.

Following Certification courses and Value added courses were proposed and approved by experts.

- VLSI front end and back end design for Industry of duration 30 Hrs
- Machine Learning with practical application using Python of duration 30 Hrs
- Advanced CMOS VLSI Design of duration 30 Hrs

27.17 Any other matter with the permission of the Chair.

Chairman was authorized to finalize the SOE.

The meeting concluded with thanks to the Experts.

Dr. M.S. Dorle
Member Secretary
BoS, ET

Dr. M.S. Narlawar
Chairman & HoD, ET

Approved By: BoS Electronics & Telecommunication Engg.



B.TECH SCHEME OF EXAMINATION 2020-21
(Revised Scheme of Examination w.e.f. 2022-23 onward)
Electronics & Telecommunication Engineering

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
TOTAL FIRST & SECOND SEM										47				
Third Semester														
1	3	BS	GE2201	Engineering Mathematics III	T	3	0	0	3	3	30	20	50	3 Hours
2	3	PC	ET2201	Electronic Devices and Circuits	T	3	1	0	4	4	30	20	50	3 Hours
3	3	PC	ET2202	Lab: Electronic Devices and Circuits	P	0	0	2	2	1		60	40	
4	3	PC	ET2203	Digital Circuits and Fundamentals of Microprocessor.	T	3	0	0	3	3	30	20	50	3 Hours
5	3	PC	ET2204	Lab: Digital Circuits and Fundamentals of Microprocessor.	P	0	0	2	2	1		60	40	
6	3	PC	ET2205	Electronic Measurement and Instrumentation	T	3	0	0	3	3	30	20	50	3 Hours
7	3	PC	ET2206	Lab: Electronic Measurement and Instrumentation	P	0	0	2	2	1		60	40	
8	3	PC	ET2207	Network Analysis	T	3	0	0	3	3	30	20	50	3 Hours
TOTAL THIRD SEM						15	1	6	22	19				

Fourth Semster														
1	4	BS	GE2204	Advance Mathematical Techniques	T	3	0	0	3	3	30	20	50	3 Hours
2	4	PC	ET2251	Electromagnetic Fields	T	3	1	0	4	4	30	20	50	3 Hours
3	4	PC	ET2252	Microcontroller and Interfacing	T	3	0	0	3	3	30	20	50	3 Hours
4	4	PC	ET2253	Lab: Microcontroller and Interfacing	P	0	0	2	2	1		60	40	
5	4	PC	ET2254	Analog Communication	T	3	0	0	3	3	30	20	50	3 Hours
6	4	PC	ET2255	Lab: Analog Communication	P	0	0	2	2	1		60	40	
7	4	PC	ET2256	Control Systems	T	3	0	0	3	3	30	20	50	3 Hours
8	4	PC	ET2257	Lab.: Control Systems	P	0	0	2	2	1		60	40	
TOTAL FOURTH SEM						15	1	6	22	19				

List of Audit Courses														
1	3	HS	GE2121	Env Studies for 3 Sem. EL,ET,CT	A	3	0	0	3	0				
2	3	HS	AU2123	YCCE Communication Aptitude Preparation (YCAP3)	A	3	0	0	3	0				
3	4	HS	AU2125	YCCE Communication Aptitude Preparation (YCAP4.2) for EL,EE,ET	A	3	0	0	3	0				

MSEs* = Two MSEs of 15 Marks each will conducted and marks of these 2 MSEs will be considered for Continuous Assessment

TA ** = for Theory : 5 marks on lecture quizzes, 11 marks on TA2+TA4 activitied decided by course teacher, 4 marks on class attendance

TA = for Practical : MSPA will be 15 marks each**

		June 2022	1.05	Applicable for AY 2022-23 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



B.TECH SCHEME OF EXAMINATION 2020-21
 (Revised Scheme of Examination w.e.f. 2022-23 onward)
Electronics & Telecommunication Engineering

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Fifth Semester														
1	5	HS	GE2312	Fundamental of Economics	T	3	0	0	3	3	30	20	50	3 Hours
2	5	PC	ET2301	Analog Integrated circuits	T	3	0	0	3	3	30	20	50	3 Hours
3	5	PC	ET2302	Lab: Analog Integrated circuits	P	0	0	2	2	1		60	40	
4	5	PC	ET2303	Fields & Radiating Systems	T	3	1	0	4	4	30	20	50	3 Hours
5	5	PC	ET2304	Signals & Systems	T	3	0	0	3	3	30	20	50	3 Hours
6	5	PC	ET2305	Lab. :Signals & Systems	P	0	0	2	2	1		60	40	
7	5	OE		Open Elective - I *	T	3	0	0	3	3	30	20	50	3 Hours
8	5	OE		Open Elective - II *	T	3	0	0	3	3	30	20	50	3 Hours
9	5		ET2306	Lab.: Electronics Workshop	P	0	0	2	2	1		60	40	
10	5/6	STR	ET2310	Industry Visit and its report	P	0	0	0	0	1		100		
TOTAL FIFTH SEM						18	1	6	25	23				

Audit Courses														
1	5	HS	AU2127	YCCE Communication Aptitude Preparation (YCAP5.2) for EL,EE,ET	A	3	0	0	3	0				

Open Electives -I

1	5	OE 1	ET2311	OE I : Microcontroller & Embedded Systems
2	5	OE 1	ET2312	OE I : Principles of Communication Engineering
3	5	OE 1	ET2313	OE I : Fundamentals of Image Processing
4	5	OE 1	ET2314	OE I : Fundamentals of IoT

Open Electives -II

1	5	OE 2	ET2321	OE II : Soft computing
2	5	OE 2	ET2322	OE II : Industrial Instrumentation
3	5	OE 2	ET2323	OE II : Medical Electronics
4	5	OE 2	ET2324	OE II : Display Technology & Applications
5	5	OE 2	ET2325	OE II : PLCs and SCADA

MSEs* = Two MSEs of 15 Marks each will conducted and marks of these 2 MSEs will be considered for Continuous Assessment

TA ** = for Theory : 5 marks on lecture quizzes, 11 marks on TA2+TA4 activitied decided by course teacher, 4 marks on class attendance

TA = for Practical : MSPA will be 15 marks each**

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B.TECH SCHEME OF EXAMINATION 2020-21
(Revised Scheme of Examination w.e.f. 2022-23 onward)
Electronics & Telecommunication Engineering

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Sixth Semester														
1	6	HS	GE2311	Fundamental of Management	T	3	0	0	3	3	30	20	50	3 Hours
2	6	PC	ET2351	Digital Signal Processing	T	3	0	0	3	3	30	20	50	3 Hours
3	6	PC	ET2352	Lab: Digital Signal Processing	P	0	0	2	2	1		60	40	
4	6	PE		Professional Elective I	T	3	0	0	3	3	30	20	50	3 Hours
5	6	PE		Lab. : Professional Elective I	P	0	0	2	2	1		60	40	
6	6	PE		Professional Elective II	T	3	0	0	3	3	30	20	50	3 Hours
7	6	PE		Lab. : Professional Elective II	P	0	0	2	2	1		60	40	
8	6	OE		Open Elective - III **	T	3	0	0	3	3	30	20	50	3 Hours
9	6	OE		Open Elective - IV **	T	3	0	0	3	3	30	20	50	3 Hours
TOTAL SIXTH SEM						18	0	6	24	21				

Professional Electives -I

1	6	PE I	ET2361	PE I : Object Oriented Programming
2	6	PE I	ET2362	PE I : Lab. Object Oriented Programming
3	6	PE I	ET2363	PE I : Discrete Structures
4	6	PE I	ET2364	PE I : Lab. Discrete Structures
5	6	PE I	ET2365	PE I : Microprocessors and Peripherals
6	6	PE I	ET2366	PE I : Lab. Microprocessors and Peripherals
7	6	PE I	ET2367	PE I : Electronic Instrumentation
8	6	PE I	ET2368	PE I :Lab Electronic Instrumentation
9	6	PE I	ET2371	PE I : Fundamentals of Computing
10	6	PE I	ET2372	PE I : Lab Fundamentals of Computing
11	6	PE I	ET2373	PE I : Algorithms and data structures
12	6	PE I	ET2374	PE I :Lab Algorithms and data structures

Professional Electives -II

1	6	PE II	ET2377	PE II : Antenna Theory & Design
2	6	PE II	ET2378	PE II : Lab. Antenna Theory & Design
3	6	PE II	ET2379	PE II : Digital system Design
4	6	PE II	ET2380	PE II : Lab. Digital system Design
5	6	PE II	ET2381	PE II : Internet of Things (IoT)
6	6	PE II	ET2382	PE II : Lab. Internet of Things (IoT)
7	6	PE II	ET2383	PE II : Optical Communication
8	6	PE II	ET2384	PE II : Lab. Optical Communication
9	6	PE II	ET2385	PE II :Principles of image processing
10	6	PE II	ET2386	PE II : Lab. Principles of image processing
11	6	PE II	ET2387	PE II : TV & Video Engineering
12	6	PE II	ET2388	PE II : Lab. TV & Video Engineering

Open Electives -III

1	6	OE 3	ET2391	OE III : Microcontroller & Embedded Systems
2	6	OE 3	ET2392	OE III : Principles of Communication Engineering
3	6	OE 3	ET2393	OE III : Fundamentals of Image Processing
4	6	OE 3	ET2394	OE III : Fundamentals of IoT

Open Electives -IV

4	6	OE 4	ET2396	OE IV : Soft computing
5	6	OE 4	ET2397	OE IV : Industrial Instrumentation
6	6	OE 4	ET2398	OE IV : Medical Electronics
7	6	OE 4	ET2399	OE IV : Display Technology & Applications
7	6	OE 4	ET2400	OE IV : PLCs & SCADA

Audit Courses

1	6	HS	AU2129	YCCE Communication Aptitude Preparation (YCAP6.2) for ME, EE, ETC	A	3	0	0	3	0				
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MSEs* = Two MSEs of 15 Marks each will conducted and marks of these 2 MSEs will be considered for Continuous Assessment

TA ** = for Theory : 5 marks on lecture quizzes, 11 marks on TA2+TA4 activitied decided by course teacher, 4 marks on class attendance

TA = for Practical : MSPA will be 15 marks each**

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B.TECH SCHEME OF EXAMINATION 2020-21
 (Revised Scheme of Examination w.e.f. 2022-23 onward)
Electronics & Telecommunication Engineering

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Seventh Semester														
1	7	PC	ET2401	RF & Microwave	T	3	0	0	3	3	30	20	50	3 Hours
2	7	PC	ET2402	Lab: RF & Microwave	P	0	0	2	2	1		60	40	
3	7	PC	ET2403	Digital Communication	T	3	0	0	3	3	30	20	50	3 Hours
4	7	PC	ET2404	Lab: Digital Communication	P	0	0	2	2	1		60	40	
5	7	PE		Professional Elective III	T	3	0	0	3	3	30	20	50	3 Hours
6	7	PE		Professional Elective IV	T	3	0	0	3	3	30	20	50	3 Hours
7	7	PE		Professional Elective V	T	3	0	0	3	3	30	20	50	3 Hours
8	7	PE		Professional Elective VI	T	3	0	0	3	3	30	20	50	3 Hours
9	7	STR	ET2409	Mini Project	P	0	0	4	4	2		60	40	
10	7	STR	ET2410	Campus Recruitment Training (CRT)	P	0	0	0	0	2		100		
TOTAL SEVENTH SEM						18	0	8	26	24				

Professional Electives -III

1	7	PE	ET2411	PE III : Power Electronics
2	7	PE	ET2412	PE III : Data Compression & Encryption
3	7	PE	ET2413	PE III : Analog VLSI
4	7	PE	ET2414	PE III : Error Correcting Codes
5	7	PE	ET2415	PE III : Wireless Mobile Communication Systems

Professional Electives -IV

6	7	PE	ET2421	PE IV : Satellite Communication & RADAR Engineering
7	7	PE	ET2422	PE IV : Embedded System
8	7	PE	ET2423	PE IV : Switching Theory
9	7	PE	ET2424	PE IV : Topics in Machine Learning
10	7	PE	ET2425	PE IV : Multimedia Communications

Professional Electives -V

11	7	PE	ET2431	PE V : Display Technology
12	7	PE	ET2432	PE V : Biomedical Instrumentation
13	7	PE	ET2433	PE V : Fuzzy Logic & Neural Network
14	7	PE	ET2434	PE V : Wireless Sensor Networks
15	7	PE	ET2435	PE V : RF Circuit Design

Professional Electives -VI

16	7	PE	ET2441	PE VI : CMOS VLSI Design
17	7	PE	ET2442	PE VI : Digital Image Analysis for Remote Sensing
18	7	PE	ET2443	PE VI : Microwave Integrated circuits
19	7	PE	ET2444	PE VI : Communication Networks
20	7	PE	ET2445	PE VI : Computer Architecture and Organization
21	7	PE	ET2446	PE VI : PLCs & SCADA

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TA = for Practical : MSPA will be 15 marks each**

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B.TECH SCHEME OF EXAMINATION 2020-21
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Electronics & Telecommunication Engineering

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Eighth Semester														
1	8	STR	ET2451	Major Project	P	0	0	12	12	9		60	40	
2	8	STR	ET2452	Extra curricular Activity Evaluation	P	0	0	0	0	1		100		
TOTAL						0	0	12	12	10				
GRAND TOTAL						84	3	44	131	163				

MSEs* = Two MSEs of 15 Marks each will conducted and marks of these 2 MSEs will be considered for Continuous Assessment

TA = for Theory : 5 marks on lecture quizzes, 11 marks on TA2+TA4 activitied decided by course teacher, 4 marks on class attendance**

TA = for Practical : MSPA will be 15 marks each**

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Computer Technology



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Department of Computer Technology

Vision of the Department

To be a well-known center for pursuing computer education through innovative pedagogy, value-based education and industry collaboration.

Mission of the Department

To establish learning ambience for ushering in computer engineering professionals in core and multidisciplinary arena by developing problem-solving skills through emerging technologies.

Department has organized Curriculum Development Workshop for SoE2022 on 27th July 2022 at 10:30 a.m. in departmental library. Following experts were present during the CDW.

Sr. No.	Name of Expert	Affiliation	Expert from	Signature
1.	Dr. O. G. Kakde	Director, IIIT Nagpur	Academia	
2.	Dr. P. S. Deshpande	Professor, CSE VNIT, Nagpur	Academia	
3.	Er. Ketan Paithankar	CTO, Konverge AI Pvt. Ltd. Nagpur	Industry	
4.	Er. Kalpit Bhawalkar	Head (AI), Konverge AI Pvt. Ltd. Nagpur	Industry	

Along with above expert members following faculty members were also present during CDW



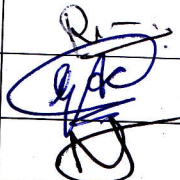

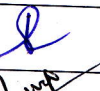
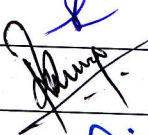

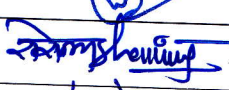

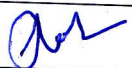

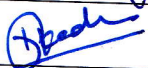



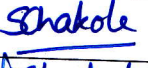
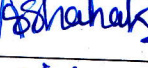
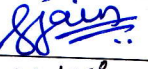
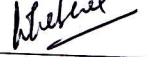
Sr. No	Name	Designation	Signature
1	Dr. Rakhi D. Wajgi	HOD	
2	Dr. Manali M. Kshirsagar	Professor	
3	Dr. Nilesh Singh V. Thakur	Professor	
4	Dr. Arvind Bhagat Patil	Associate Professor	
5	Dr. Kavita R Singh	Associate Professor	
6	Dr. Shivkumar Jaywant Karale	Assistant Professor	

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	D. C. : : : . . .		
7	Dr. Gauri Manoj Dhopavkar	Assistant Professor	AD
8	Smita Rajesh Kapse	Assistant Professor	
9	Roshani S. Khedgaonkar	Assistant Professor	
10	Gauri Ajay Chaudhary	Assistant Professor	
11	Nilesh Uttamrao Sambhe	Assistant Professor	
12	Dr. Prarthana A. Deshkar	Assistant Professor	P.A. Deshkar
13	Supriya Thombre	Assistant Professor	
14	Praful Vasant Rao Barekar	Assistant Professor	
15	Nikhil Mangrulkar	Assistant Professor	
16	Roshan Suresh Rao Bhanuse	Assistant Professor	
17	Ganesh Keshao Rao Yenurkar	Assistant Professor	
18	Sanjay Pandurang Pande	Assistant Professor	
19	Gendlal Manikrao Vaidya	Assistant Professor	
20	Neha Kadu	Assistant Professor	
21	Charvi Suri	Assistant Professor	
22	Pradnya Moon	Assistant Professor	
23	Archana Pimpalkar	Assistant Professor	
24	Sakshi Gabhane	Assistant Professor	
25	Apeksha Shahakar	Assistant Professor	
26	Shweta N. Jain	Assistant Professor	
27	Lata Tembhare	Assistant Professor	



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28	Oshin Shende	Assistant Professor	— A B —
29	Nirmal Mungale	Assistant Professor	
30	Shruti Sarwate	Assistant Professor	<i>Shruti</i>
31	Ankita Raut	Assistant Professor	— A B —
32	Nisha Thembhare	Assistant Professor	- A B —

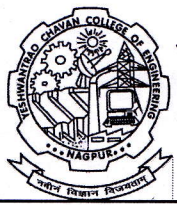
33 Sharad Kawale

Assistant Professor

Secret.

Dr. N. V. Thakur
Professor and Secretary BoS

Dr. R. D. Wajgi
HoD, CT



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Department of Mechanical Engineering

Date: 27/07/2022

10th Curriculum Development Workshop in Computer Technology

Report

10th Curriculum Development Workshop was held on 27th July 2022 at 10.30 A.M. in the Department library of Computer Technology department.

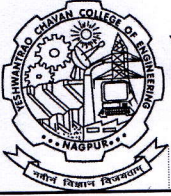
The meeting was attended by the following members of BoS.

External Members

S. N.	Name of Honorable External Member	Affiliation	Expert From	Signature
1.	Dr. O.G.Kakde	Director, IIIT,Nagpur	Academia	
2.	Dr. P.S.Deshpande	Professor, CSE, VNIT, Nagpur	Academia	
3.	Er.Ketan Paithankar	CTO,Konverge AI Pvt. Ltd,Nagpur	Industry	
4.	Er.Kalpiti Bhawalkar	Head(AI),Konverge AI Pvt Ltd,Nagpur	Industry	

Following faculty members were present during 10th CDW

Sr. No.	Name of Member	Sr. No.	Name of Member
1.	Dr. R. D. Wajgi	2.	Prof. (Dr.) Manali Kshirsagar
3.	Dr. N. V. Thakur	4.	Dr. Arvind Bhagat Patil *
5.	Dr. Kavita Singh	6.	Dr.S.J.Karale
7.	Dr.Gauri Dhopavakar	8.	Dr. P. Deshkar
9.	Gauri Chaudhary *	10.	Mrs. Smita R.Kapse
11.	Ms.R.S.Khedgaonkar	12.	Mr. P.V. Barekar
13.	Mr. Ganesh Yenurkar	14.	Mr.Nilesh Sambhe
15.	Mrs. S. S. Thombre	16.	Mr. N.S. Mangrulkar
17.	Mr. R. S. Bhanuse	18.	Mr. G. Vaidya
19.	Mrs. Neha Kadu	20.	Mr.Sanjay Pande
21.	Mrs.P.Moon	22.	Ms. Charvi Suri
23.	Mrs.S.Gabhane	24.	Ms.A.Pimpalkar
25.	Mrs.S.Jain	26.	Mrs.A. Shahakar
27.	Ms.Oshin Shende	28.	Mrs.L.R.Tembhare



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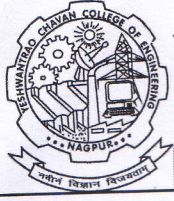
Department of Mechanical Engineering

29.	Mrs.S.Kawale	30.	Ms.S.Sarwate
31.	Ms.S.Roakde	*Leave of absence granted	

- HoD Computer Technology Dr. R. D. Wajgi welcome all experts
- Initially Prof.(Dr).N.V.Thakur (Member Secretary, BoS Computer Technology) introduced all the external experts to all BoS members.
- In the workshop, proposed SoE-2022 as per NEP-2020 was discussed and approved with minor changes.

Following Suggestions for SoE 2022 were given by the experts:

- **Tutorial to be added wherever required**
 - **Syllabus of Elements of AIML, Web Technology Lab, DMPT, MFDA, DBMS, Cloud Computing should be revised**
 - **Distributed System content should be added in Cloud Computing Course**
 - **Software Testing Course should be added in SoE 2022**
 - **Remove Linear Programming and Operation Research Courses and make it as the part of Optimization and rename the Course as Operations Research and Optimization**
 - **Remove asp.net and add java script, typescript along with existing HTML and CSS in Web Technology Lab**
 - **Balancing and distribution of credits should be done properly**
 - **Lab designing in collaboration with industry**
 - **Application-based practical list to be prepared**
 - **Industry experts can be invited for External evaluation during ESE practical examination**
 - **Per course one external paper setter is required**
 - **50:50 for Theory evaluation and 60:40 for Practical evaluation**
 - **For lab it can be 80+ 20 or 100 internal (CA)**
 - **Few Reference books were suggested for courses like AIML, Python, DMPT.**
-
- Syllabus of the subject was prepared by referring syllabus of IIT, NIT, NPTEL and other reputed institutions of India.
 - More weightage was given to the inputs received from Industry, Stakeholders, and field experts while designing the syllabus.



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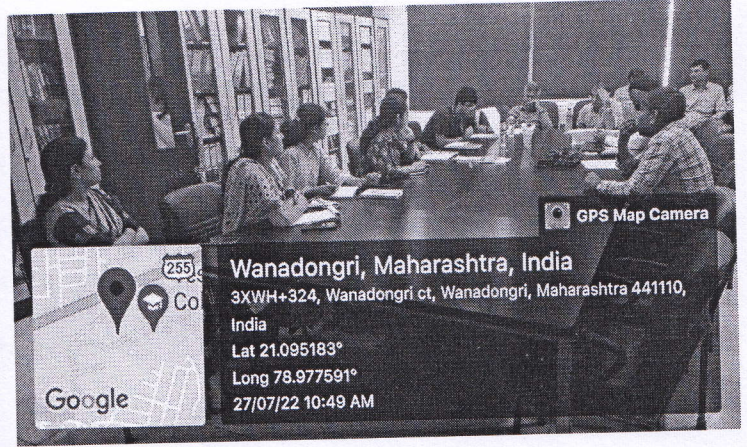
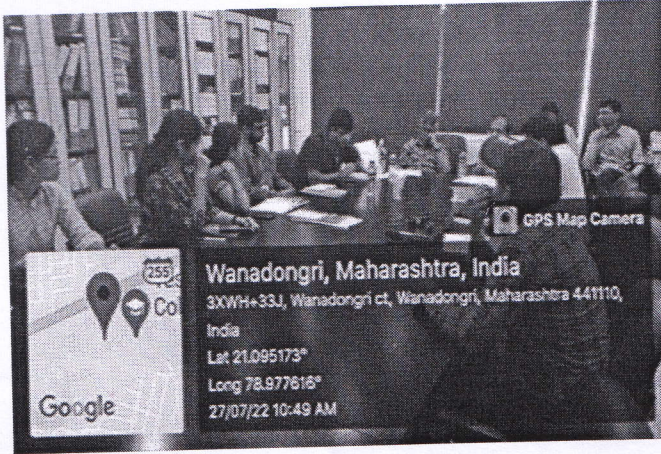
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Department of Mechanical Engineering



Thakur N. V.

Prof. (Dr.) N. V. Thakur
Member Secretary
BoS Computer Technology

Dr. R. D. Wajgi

Dr. R. D. Wajgi
Chairman
BoS Computer Technology



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Department has organized 29th BoS meeting on 17th August 2022 at 10:30 a.m. in Departmental Library. Following experts were present during the meeting.

Sr.No.	Name of Honorable External Member	Expert From	Signature
1	Dr.U.A.Deshpande	Academia	
2	Mr.Ajit Dharmik	Industry	
3	Mr.Vaibhav Deshpande	PG Alumni	← ABSENT →

Along with the experts following faculty members were present during the meeting.

Sr. No	Name	Designation	Signature
1	Dr. Rakhi D. Wajgi	HOD	
2	Dr. Manali M. Kshirsagar	Professor	
3	Dr. Nileshsingh V. Thakur	Professor	
4	Dr. Arvind R. Bhagat Patil	Associate Professor	
5	Dr. Kavita R Singh	Associate Professor	← ABSENT →
6	Dr. Shivkumar J. Karale	Assistant Professor	
7	Dr. Gauri M. Dhopavkar	Assistant Professor	
8	Smita R. Kapse	Assistant Professor	
9	Roshani S. Khedgaonkar	Assistant Professor	
10	Gauri A. Chaudhary	Assistant Professor	
11	Nilesh U. Sambhe	Assistant Professor	
12	Dr. Prarthana A. Deshkar	Assistant Professor	
13	Supriya Thombre	Assistant Professor	
14	Praful V. Barekar	Assistant Professor	
15	Nikhil Mangrulkar	Assistant Professor	



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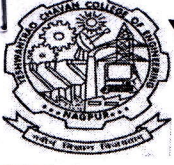
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16	Roshan S. Bhanuse	Assistant Professor	← ABSENT →
17	Ganesh K. Yenukar	Assistant Professor	Handwritten signature
18	Sanjay P. Pande	Assistant Professor	Handwritten signature
19	Gendlal M. Vaidya	Assistant Professor	Handwritten signature
20	Neha D. Kadu	Assistant Professor	Handwritten signature
21	Charvi S. Suri	Assistant Professor	Handwritten signature
22	Pradnya S. Moon	Assistant Professor	Handwritten signature
23	Archana S. Pimpalkar	Assistant Professor	Handwritten signature
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25	Apeksha S. Shahakar	Assistant Professor	Handwritten signature
26	Shweta N. Jain	Assistant Professor	Handwritten signature
27	Lata R. Tembhare	Assistant Professor	Handwritten signature
28	Oshin P. Shende	Assistant Professor	Handwritten signature
29	Shruti G. Sarwate	Assistant Professor	Handwritten signature
30	Sharayu R. Kawale	Assistant Professor	Handwritten signature
31	Snehal Rokde	Assistant Professor	Handwritten signature
32	Ankita Raut	Assistant Professor	Handwritten signature
33	Nisha Thembhare	Assistant Professor	

Prof. (Dr.) N.V. Thakur
BoS Secretary

Dr. R. D. Wajgi
HoD CT



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Department of Computer Technology

Boards of Studies in Computer Technology

Minutes of the Meeting No. 29

Date: 17th Aug 2022

Meeting no. 29 of the Board of Studies was held on 17th Aug. 2022 at 10.30 A.M. in the Department Library of Computer Technology Department.

The meeting was attended by the following expert members of BoS.

External Members:

S. N.	Name of Honorable External Member	Expert From	Signature
1.	Prof. (Dr.) U. A. Deshpande, Professor, CSE, VNIT, Nagpur	Academia	
2.	Mr. Ajit Dharmik, Director, 6 Simplex Software Solutions Pvt. Ltd., Nagpur	Industry	
3.	Mr. Vaibhav Deshpande, Assistant Professor, CE Dept. SVP CET, Nagpur	PG Alumni	Leave of absence granted

BoS Members:

Sr. No.	Name of Member	Sr. No.	Name of Member
1.	Dr. R. D. Wajgi	2.	Prof. (Dr.) Manali Kshirsagar *
3.	Dr. N. V. Thakur	4.	Dr. Arvind Bhagat Patil *
5.	Dr. Kavita Singh *	6.	Dr.S.J.Karale
7.	Dr.Gauri Dhopavakar	8.	Dr. P. Deshkar
9.	Gauri Chaudhary *	10.	Mrs. Smita R.Kapse
11.	Ms.R.S.Khedgaonkar	12.	Mr. P.V. Barekar
13.	Mr. Ganesh Yenurkar	14.	Mr.Nilesh Sambhe
15.	Mrs. S. S. Thombre	16.	Mr. N.S. Mangrulkar
17.	Mr. R. S. Bhanuse	18.	Mr. G. Vaidya
19.	Mrs. Neha Kadu	20.	Mr.Sanjay Pande
21.	Mrs.P.Moon	22.	Ms. Charvi Suri
23.	Mrs.S.Gabhane	24.	Ms.A.Pimpalkar
25.	Mrs.S.Jain	26.	Mrs.A. Shahakar
27.	Ms.Oshin Shende	28.	Mrs.L.R.Tembhare
29.	Mrs.S.Kawale	30.	Ms.S.Sarwate
31.	Ms.S.Roakde		*Leave of absence granted



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The following agenda points were deliberated in the meeting

29.01	Welcome of new members Dr. R. D. Wajgi welcome all New Members							
29.02	Installation of member Secretary Dr. R. D. Wajgi welcome new member secretary Prof. (Dr.) N. V. Thakur							
29.03	To confirm the minutes of 28 th Meeting of BoS. The minutes of the 28th Meeting of BoS in Computer Technology were placed on the table by Chairman Dr. R. D. Wajgi were confirmed unanimously.							
29.04	To discuss and suggest the action taken on i) Co/Po attainment of subjects taught in previous semester							
	Type		Direct		Indirect		Total	
	Weightage		80%		20%			
	Attainment Parameters		TH+PR		Survey			
	PO1	T	2.64	90.25%	3.00	100.00%	2.82	88.76 %
		A	2.38		3.00		2.51	
	PO2	T	2.54	87.60%	3.00	80.00%	2.77	81.55 %
		A	2.22		2.40		2.26	
	PO3	T	2.54	84.57%	3.00	83.33%	2.77	80.06 %
		A	2.15		2.50		2.22	
	PO4	T	2.38	84.16%	3.00	86.67%	2.69	78.85 %
		A	2.00		2.60		2.12	
	PO5	T	2.71	84.64%	3.00	83.33%	2.86	81.81 %
		A	2.30		2.50		2.34	
	PO6	T	1.97	79.67%	3.00	86.67%	2.48	71.41 %
		A	1.57		2.60		1.77	
	PO7	T	1.88	115.73%	3.00	91.67%	2.44	93.78 %
		A	2.17		2.75		2.29	
	PO8	T	1.92	92.89%	3.00	91.67%	2.46	80.31 %
		A	1.78		2.75		1.97	
	PO9	T	2.31	94.95%	3.00	93.33%	2.66	87.21 %
		A	2.20		2.80		2.32	



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PO10	T	1.72	93.84%	3.00	91.67%	2.36	78.05%
	A	1.62		2.75		1.84	
PO11	T	2.39	105.31%	3.00	93.33%	2.69	95.48%
	A	2.52		2.80		2.57	
PO12	T	2.46	90.88%	3.00	91.67%	2.73	85.65%
	A	2.23		2.75		2.34	
PSO1	T	2.64	87.69%	3.00	93.33%	2.82	85.49%
	A	2.31		2.80		2.41	
PSO2	T	2.37	86.08%	3.00	91.11%	2.69	81.18%
	A	2.04		2.73		2.18	

Improvement needed for PO6, PO9, PO10

ii) Result analysis of subjects taught in previous semester

Sr. No.	Semester	Total Appeared	Total Passed	Pass %
1.	IV	151	122	80.75
2.	VI	158	141	89.24
3.	VII	154	154	100

iii) Stake holder's feedback on review and design of curriculum

Stakeholder	Suggestions given	Action taken
Alumni Feedback	Courses can be added : <ul style="list-style-type: none"> Big Data Java Cloud Computing AIML Sales force Crypto chain/Blok chain New Technologies (SAP) Data Science More focus Practical	<ul style="list-style-type: none"> Cloud Computing is already included in SoE 2018 Salesforce is already included in SoE 2018 Student Development Program on Blockchain technology is conducted Value Added Course is planned for 2022-23 session on SAP (Systems Applications and Products in data processing) Data Science related courses like MFDA, BI, ML, Elements of AIML etc. are included in SoE22
Employer Feedback	Courses can be added: <ul style="list-style-type: none"> Cyber Security specialization course 	<ul style="list-style-type: none"> Communication related to syllabus of Cyber Security aligned with industry is ongoing Cyber Physical Systems course is included in SoE22 as PE



Department of Computer Technology

	Faculty Feedback	Courses Need Modification <ul style="list-style-type: none">• Python Programming Lab : need more hours• Essentials of IT• Data Mining• Computer Architecture And Organization• Introduction to Salesforce• Design Patterns	<ul style="list-style-type: none">• Incorporated in SoE22• Modifications/revisions are done in association with concerned course teachers									
iv) In Sem, End Sem and Exit feedback on Teaching Learning & curriculum <table border="1" data-bbox="334 824 1313 954"><thead><tr><th>Sr. No.</th><th>In Sem (No. of Faculty)</th><th>End Sem (No. of Faculty)</th></tr></thead><tbody><tr><td>>=80 %</td><td>21</td><td>22</td></tr><tr><td><=60%</td><td>01</td><td>NIL</td></tr></tbody></table>				Sr. No.	In Sem (No. of Faculty)	End Sem (No. of Faculty)	>=80 %	21	22	<=60%	01	NIL
Sr. No.	In Sem (No. of Faculty)	End Sem (No. of Faculty)										
>=80 %	21	22										
<=60%	01	NIL										
29.05	<p>To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2018 and Autonomous 2020 of the Undergraduate and Post graduate programs conducted under the Board . To approve and ratify SoE22 and all syllabi of B.Tech and M.Tech.</p> <p>Suggestions for SoE Autonomous 2018 UG :</p> <ul style="list-style-type: none">• Syllabus of Web Technology, DBMS, Cloud Computing should be revised• UI/UX design to be introduced as PE <p>Suggestions for SoE 2022 UG :</p> <ul style="list-style-type: none">• Tutorial to be added• Syllabus of Elements of AIML, Web Technology Lab, DMPT, MFDA, DBMS, Cloud Computing , AWT Lab should be revised• Distributed System content should be added in Cloud Computing Course• Software Testing Course should be added in SoE 2022• Remove Linear Programming and Operation Research Courses and make it as the part of Optimization and rename the Course as Operations Research and Optimization• Balancing and distribution of credits should be done properly <p>No Change in SoE of PG</p>											
29.06	<p>To discuss and suggest the minor changes in the syllabi of various courses in Autonomous Autonomous 2018 Schemes of undergraduate and post graduate programs conducted under the Board.</p>											



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	<ul style="list-style-type: none">• Update the syllabus content of DBMS with advanced SQL with cloud instances, Postgresql to be included in DBMS Lab• Add distributed system concepts in Cloud Computing Course, and Jio cloud, Open stack to be explored in lab• Update the content of Web Technology Lab: Remove asp.net and add javascript, typescript along with existing HTML and CSS in Web Technology Lab• Nodejs to be introduced in AWT course
29.07	<p>To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate and Postgraduate Programs.</p> <p>Following Books should be added as the Text and Reference Books for the concerned Courses:</p> <ul style="list-style-type: none">• Mathematics for Computer Science by Albert Mayer• Introduction to Linear Algebra by Gilbert Strang• Deep Learning using Python by François Chollet• Symbolic Logic and Mechanical Theorem Proving by Chin-Liang Chang, Richard Lee
29.08	<p>To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under and Post Graduate programs.</p> <ul style="list-style-type: none">• Lab designing in collaboration with industry experts• Application-based practical list to be prepared for all courses
29.09	<p>To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board.</p> <ul style="list-style-type: none">• 50:50 for Theory evaluation and 60:40 for Lab evaluation• Industry experts can be invited for External evaluation during ESE practical examination• Per course one external paper setter is required
29.10	<p>To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.</p> <p>Suggested new courses are:</p> <ul style="list-style-type: none">• Technical Writing• Ethics in Engineering Practice /Professional Ethics
29.11	<p>To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester</p>



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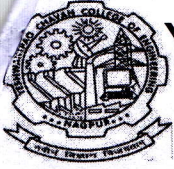
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	<p>Examination of Odd Term 2022-23.</p> <p>The panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs for End Semester Examination of Odd Term 2022-23 was constituted.</p>
29.12	<p>To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Odd Term 2022-23.</p> <p>The panel of paper setters, Moderators and Valuers for the various theory courses at Postgraduate programs for End Semester Examination of Odd Term 2022-23 was constituted.</p>
29.13	<p>To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination Odd Term 2022-23.</p> <p>The panel of internal and external examiners for the various laboratory courses at UG and PG levels for End Semester Examination of Odd Term 2022-23 is ongoing.</p>
29.14	<p>Preparation of Electronic question Bank UG courses according to SoE 2018 To review solutions to all questions of Electronic Question Banks for all courses</p> <p>Preparation of Electronic question Bank for all semesters is ready Solutions of few courses is ready and few courses partially ready</p>
29.15	<p>To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses.</p> <ul style="list-style-type: none">• 50:50 for Theory evaluation and 60:40 for Lab evaluation• For lab it can be 80: 20 or 100 marks based on continuous assessment• External evaluation of lab can be done by industry experts• Lab designing can be done in collaboration with industry experts
29.16	<p>To discuss and propose scheme for Minor an Honor course and its syllabus. Discussed and proposed Certificate courses and value added courses in 2022-23.</p> <p>Suggestions for Minor in CSE</p> <ul style="list-style-type: none">• In place of Operating System, Object Oriented Programming is added in the Minor scheme for 5th semester. <p>Names of the Honor Programs are changed, and its syllabus is modified accordingly. New proposed names of the Honor Program are</p> <ul style="list-style-type: none">• Honors in Machine Learning Specialization



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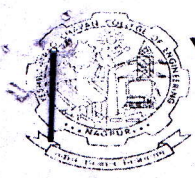
Department of Computer Technology

	<ul style="list-style-type: none">• Honors in Data Science• Honors in AI (NPTEL) <p>Proposed list of Value-added courses:</p> <ul style="list-style-type: none">• Advancement in Image and Video Processing• Advancement in AI technologies• SAP (Systems Applications and Products in data processing)• Data Analytics and Visualization
29.17	<p>Any other matter with the permission of the Chair</p> <p>Formal Thanks to External Experts on behalf of the BoS Chairman, BoS Members, and member secretary.</p>

The meeting concluded by vote of thanks by chairperson, BoS of Computer Technology

Prof. N.V. Thakur
Member Secretary
BoS Computer Technology

Dr. R. D. Wajgi
Chairperson
BoS Computer Technology



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Department of Computer Technology

Boards of Studies in Computer Technology

Minutes of the Meeting No. 30

Date: 4th Feb 2023

Meeting no. 30 of the Board of Studies was held on 4th Feb 2023 at 10.00 A.M. in the Department Library of Computer Technology Department.

The meeting was attended by the following expert members of BoS.

External Members:

S. N.	Name of Honorable External Member	Expert From	Signature
1.	Prof. Dr. U. A. Deshpande, Professor, CSE, VNIT, Nagpur	Academia	Leave of absence granted
2.	Prof. Dr. D. S. Adane, Professor, RKNECE, Nagpur	VC Nominee	
2.	Mr. Ajit Dharmik, Director, 6 Simplex Software Solutions Pvt. Ltd., Nagpur	Industry	
3.	Mr. Vaibhav Deshpande, Assistant Professor, CE Dept. SVP CET, Nagpur	PG Alumni	

BoS Members:

Sr. No.	Name of Member	Sr. No.	Name of Member
1.	Dr. R. D. Wajgi	2.	Prof. (Dr.) Manali Kshirsagar *
3.	Dr. N. V. Thakur	4.	Dr. Arvind Bhagat Patil
5.	Dr. Kavita Singh	6.	Dr. S. J. Karale*
7.	Dr. Gauri Dhopavakar	8.	Dr. P. Deshkar
9.	Gauri Chaudhary *	10.	Mrs. Smita R. Kapse
11.	Ms. R. S. Khedgaonkar	12.	Mr. P. V. Barekar*
13.	Mr. Ganesh Yenurkar*	14.	Mr. Nilesh Sambhe*
15.	Mrs. S. S. Thombre	16.	Mr. N. S. Mangrulkar
17.	Mr. R. S. Bhanuse	18.	Mr. G. Vaidya
19.	Mrs. Neha Kadu	20.	Mr. Sanjay Pande
21.	Mrs. P. Moon	22.	Ms. Charvi Suri
23.	Mrs. S. Gabhane	24.	Ms. A. Pimpalkar
25.	Mrs. S. Jain	26.	Mr. A. Arjunker
27.	Mrs. S. Kawale	28.	Mrs. L. R. Tembhare
29.	Mrs. S. Sahare	30.	Ms. S. Sarwate
31.	Mrs. P. Binalwar	32.	Ms. S. Borkar
			*Leave of absence granted



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The following agenda points were deliberated in the meeting

30.01	Welcome of new members Dr. R. D. Wajgi welcome all New Members
30.02	Installation of member Secretary
30.03	To confirm the minutes of 29 th Meeting of BoS. The minutes of the 29th Meeting of BoS in Computer Technology were placed on the table by Chairman Dr. R. D. Wajgi were confirmed unanimously.

- 30.04 To discuss and suggest the action taken on
- To discuss and suggest the action taken on PO-CO Analysis and attainment**
Ongoing
 - Stake holder's feedback on review and design of curriculum**

Stakeholder	Suggestions given	Action taken
Alumni Feedback	Contents can be added : <ul style="list-style-type: none">React JS, Node JSData SecurityAngular JSJavaMongoDB	<ul style="list-style-type: none">VAC conducted on Angular 122 Days SDP on Java conductedCase study on no SQL database added in DBMS
Faculty Feedback	Courses Need Modification <ul style="list-style-type: none">Web TechnologyDBMSCAOCN	<ul style="list-style-type: none">Incorporated in SoE22Modifications/revisions are done in association with concerned course teachers

iii. In Sem, End Sem and Exit feedback on Teaching Learning & curriculum

Sr. No.	In Sem (No. of Faculty)	End Sem (No. of Faculty)
>=80 %	29	30
<=60%	01	NIL

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iv. Result analysis of subjects taught in previous semester.

Sr. No.	Semester	Total Appeared	Total Passed	Pass %
1.	V	148	121	81.76
2.	VII	156	144	92.31

30.05 To discuss and suggest the changes in the Scheme of Examination (known as Autonomous B.Tech 2020 & SoE 2022) of the Undergraduate and Post graduate programs conducted under the Board. To approve and ratify SoE22 and all syllabi of B.Tech / M.Tech I & II year

Suggestions for SoE Autonomous 2020 UG :

- Syllabus of Advanced Data Structures, DBMS, Web Technology, Computer Architecture and Organization, Computer Network should be revised.

Suggestions for SoE 2022 UG : Final Audit course for SoE 2022

III rd Sem Audit course on Document Presentation and Computation.

IV th Sem Audit Course on Data Visualization

No Change in SoE of PG

30.06 To discuss and suggest the minor changes in the syllabi of various courses in BTech SoE 2020 Schemes of undergraduate and post graduate programs conducted under the Board.

- Syllabus of Advanced Data Structures, DBMS, Web Technology, Computer Architecture and Organization, Computer Network should be revised.

30.07 To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate and Postgraduate Programs.

No change

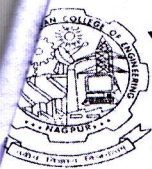
30.08 To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under and Post Graduate programs.

- Add one Practical on Protocol Design (SNMP) in Computer Network

30.09 To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board.

No Change

30.10 To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.



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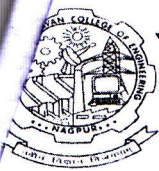
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No Change																																																				
30.11	<p>To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Odd/Even Term 2022-23.</p> <p>The panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs for End Semester Examination of Odd Term First Year and III Sem 2022-23 was constituted and Even Term 2022-23 is ongoing.</p>																																																			
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7.	4 th Sem	CT2257	DBMS	PC	Available	Available
8.	5 th Sem	CT2301	CN	PC	Available	Available
9.	5 th Sem	CT2303	TFCS	PC	Available	Available
10.	6 th Sem	CT2351	DAA	PC	Available	Available
11.	6 th Sem	CT2353	LP	PC	Available	Available
12.	6 th Sem	CT2355	SE	PC	Available	Available
13.	7 th Sem	CT2401	AI	PC	Available	Available
14.	7 th Sem	CT2403	NS	PC	Available	Available

Sr.No	Semester	Course Code	Title of the course	Type of course PC/PE	Remarks	
					EQB	Solution
1.	5 th Sem	CT2313	MOS	PE	Available	-
2.	6 th Sem	CT2361	DIP	PE	Available	Available
3.	6 th Sem	CT2365	BI	PE	Available	-
4.	6 th Sem	CT2364	IoT	PE	Available	Available
5.	7 th Sem	CT2411	NNFL	PE	Available	Available
6.	7 th Sem	CT2415	BI	PE	Available	-
7.	7 th Sem	CT2425	ML	PE	Available	Available
8.	7 th Sem	CT2435	CC	PE	Available	Available
9.	7 th Sem	CT2412	AWN	PE	Available	Available

30.15 To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses.

- **No Change**

30.16 To discuss and propose scheme for Minor an Honor course and its syllabus. Discussed and proposed Certificate courses and value added courses in Even Term 2022-23.

Change the Name of Course Database modeling as Data Modeling

NPTEL course can be added for Honors Program

Seminar-Workshop-Training programming conducted from July 2022 to January 2023

SN	Title	Type	Date	Beneficiary
1.	Guest Lecture on Engineering Mathematics	Guest Lecture (GATE)	31/01/2022	32
2.	Coding Olympiad	Coding Contest	24/01/2023	277
3.	Guest Lecture on Algorithms	Guest Lecture (GATE)	20/01/2022	32
4.	Guest Lecture on Programming and Data Structure	Guest Lecture (GATE)	20/01/2022	32
5.	Guest Lecture on Computer Networks	Guest Lecture (GATE)	19/01/2022	32



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6.	Guest Lecture on Operating System	Guest Lecture (GATE)	18/01/2022	32
7.	Guest Lecture on Databases	Guest Lecture (GATE)	17/01/2022	32
8.	Python for Data Science	SDP	21/1/2023 to 22/1/2023	81
9.	SDP on Salesforce Technology	SDP	24/12/2022	50
10.	Seminar on Cloud Technology and Information Security and its Future Opportunities	Seminar	23/11/2022	34
11.	Workshop on Computer programming and IoT for Sai Ashram Students	Workshop	31/10/2022	18
12.	Guest Lecture on GIS	Guest Lecture	10/12/2022	39
13.	Seminar on Higher Studies	Seminar	12/10/2022	76
14.	Certification Program on Advancement in Techniques used for Data Science.	30Hrs Certification Course	10/9/2022 to 12/11/2022	156
15.	Intellectual Property Rights in Digital Words	Seminar	22/8/2022	60
16.	Carrier Guidance Seminar	Seminar	22/8/2022	58
30.17	Any other matter with the permission of the Chair			
Formal Thanks to External Experts on behalf of the BoS Chairman, BoS Members, and member secretary.				

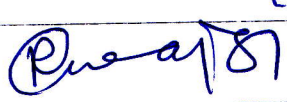
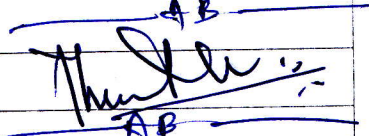
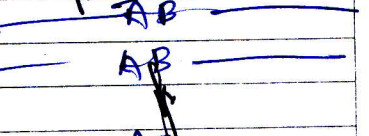
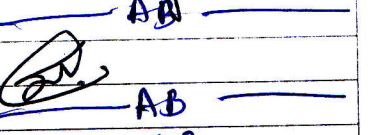
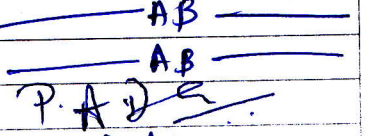
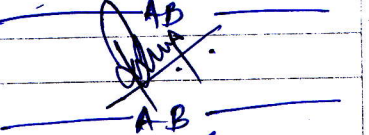
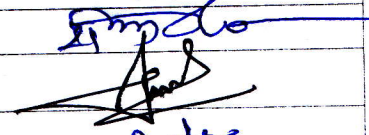
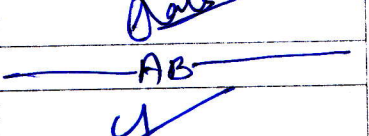
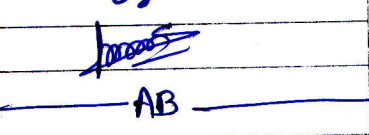
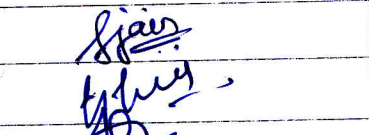
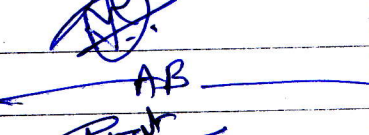
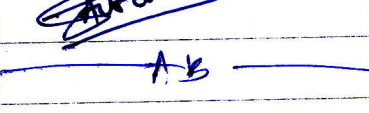


The meeting concluded by vote of thanks by chairperson, BoS of Computer Technology

Prof. N.V. Thakur
Member Secretary
BoS Computer Technology

Dr. R. D. Wajgi
Chairperson
BoS Computer Technology

Department of Computer Technology

List of Faculty

Sr. No.	Name	Signature
1.	Dr. Rakhi D. Wajgi	
2.	Dr. Manali M. Kshirsagar	
3.	Dr. Nilesh Singh V. Thakur	
4.	Dr. Arvind R. Bhagat Patil	
5.	Dr. Kavita R Singh	
6.	Dr. Shivkumar J. Karale	
7.	Dr. Gauri M. Dhopavkar	
8.	Smita R. Kapse	
9.	Roshni S. Khedgaonkar	
10.	Gauri A. Chaudhary	
11.	Nilesh U. Sambhe	
12.	Dr. Prarthana A. Deshkar	
13.	Supriya Thombre	
14.	Praful V. Barekar	
15.	Nikhil Mangrulkar	
16.	Roshan S. Bhanuse	
17.	Ganesh K. Yenukar	
18.	Sanjay P. Pande	
19.	Gendlal M. Vaidya	
20.	Charvi S. Suri	
21.	Pradnya S. Moon	
22.	Archana S. Pimpalkar	
23.	Shweta N. Jain	
24.	Lata R. Tembhare	
25.	Shubhangi Shambharkar	
26.	Shruti G. Sarwate	
27.	Sharayu R. Kawale	
28.	Shubhangi M. Borkar	



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Department of Computer Technology

Vision of the Department

To be a well-known center for pursuing computer education through innovative pedagogy, value-based education and industry collaboration.

Mission of the Department

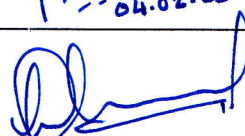
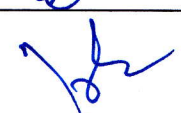
To establish learning ambience for ushering in computer engineering professionals in core and multidisciplinary arena by developing problem-solving skills through emerging technologies.

30th Board of Studies Meeting

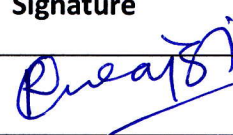

Date: 4th Feb 2023

Department of Computer Technology has organized 30th Board of studies Meeting on 4th Feb 2023 at 10.00A.M in departmental library .Following experts were present during the BoS Meeting.

External Members:

S. N.	Name of Honorable External Member	Expert From	Signature
1.	Prof. (Dr.) U. A. Deshpande, Professor, CSE, VNIT, Nagpur	Academia	
2.	Prof.(Dr.)D.S.Adane,Professor, IT,RKNEC,Nagpur	Academia	 04.02.23.
3.	Mr. Ajit Dharmik, Director, 6 Simplex Software Solutions Pvt. Ltd., Nagpur	Industry	
4.	Mr. Vaibhav Deshpande, Assistant Professor, CE Dept. SVP CET, Nagpur	PG Alumni	

Along with above expert members following faculty members were also present during 30th BoS.

Sr. No.	Name	Designation	Signature
1.	Dr. Rakhi D. Wajgi	HOD	
2.	Dr. Manali M. Kshirsagar	Professor	
3.	Dr. NileshSingh V. Thakur	Professor	



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4.	Dr. Arvind R. Bhagat Patil	Associate Professor	
5.	Dr. Kavita R Singh	Associate Professor	
6.	Dr. Shivkumar J. Karale	Assistant Professor	
7.	Dr. Gauri M. Dhopavkar	Assistant Professor	
8.	Smita R. Kapse	Assistant Professor	
9.	Roshni S. Khedgaonkar	Assistant Professor	
10.	Gauri A. Chaudhary	Assistant Professor	
11.	Nilesh U. Sambhe	Assistant Professor	
12.	Dr. Prarthana A. Deshkar	Assistant Professor	
13.	Supriya Thombre	Assistant Professor	
14.	Praful V. Barekar	Assistant Professor	
15.	Nikhil Mangrulkar	Assistant Professor	
16.	Roshan S. Bhanuse	Assistant Professor	
17.	Ganesh K. Yenurkar	Assistant Professor	
18.	Sanjay P. Pande	Assistant Professor	
19.	Gendlal M. Vaidya	Assistant Professor	
20.	Neha D. Kadu	Assistant Professor	



Nagar Yuwak Shikshan Sanstha's

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Department of Computer Technology

Vision of the Department

To be a well-known center for pursuing computer education through innovative pedagogy, value-based education and industry collaboration.

Mission of the Department

To establish learning ambience for ushering in computer engineering professionals in core and multidisciplinary arena by developing problem-solving skills through emerging technologies.

21.	Charvi S. Suri	Assistant Professor	<u>AB</u>
22.	Pradnya S. Moon	Assistant Professor	<u>AB</u>
23.	Archana S. Pimpalkar	Assistant Professor	<u>ASP</u>
24.	Shweta N. Jain	Assistant Professor	<u>Shweta</u>
25.	Lata R. Tembhare	Assistant Professor	<u>Lata</u>
26.	Shubhangi Shambharkar	Assistant Professor	<u>Shub</u>
27.	Shruti G. Sarwate	Assistant Professor	<u>Shruti</u>
28.	Sharayu R. Kawale	Assistant Professor	<u>Sharat</u>
29.	Ankita Raut	Assistant Professor	<u>AB</u>
30.	Nisha Thembhare	Assistant Professor	<u>AB</u>
31.	Prashant N. Khetade	Assistant Professor	<u>AB</u>
32.	Shubhangi M. Borkar	Assistant Professor	<u>AB</u>
33.	Mrunal R. Arjunker	Assistant Professor	<u>M.R.A. Arjunker</u>
34.	Prachi Binalwar	Assistant Professor	<u>Prachi</u>
35.	Sneha A. Sahare	Assistant Professor	<u>Sneha</u>

Thakur

Prof.Dr.N.V.Thakur

Member Secretary

Wajgi

Dr.R.D.Wajgi

Chairperson, BoS, Computer Technology



B.TECH SCHEME OF EXAMINATION 2020-21
 (Revised Scheme of Examination w.e.f. 2022-23 onward)

Computer Technology

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
TOTAL FIRST & SECOND SEM										47				
Third Semester														
1	3	BS	GE2201	Engineering Mathematics III	T	3	0	0	3	3	30	20	50	3 Hours
2	3	PC	CT2201	Computer Architecture & Organisation	T	4	0	0	4	4	30	20	50	3 Hours
3	3	PC	CT2202	Object Oriented Programming	T	3	0	0	3	3	30	20	50	3 Hours
4	3	PC	CT2203	Lab: Object Oriented Programming	P	0	0	2	2	1		60	40	
5	3	PC	CT2204	Data Structures	T	4	0	0	4	4	30	20	50	3 Hours
6	3	PC	CT2205	Lab: Data Structures	P	0	0	2	2	1		60	40	
7	3	PC	CT2206	Lab: Python Programming	P	0	0	2	2	1		60	40	
8	3	PC	CT2207	Lab: Web Technology	P	0	0	2	2	1		60	40	
TOTAL						14	0	8	22	18				

Fourth Semester														
1	4	BS	GE2206	Discrete Mathematics and Probability Theory	T	3	0	0	3	3	30	20	50	3 Hours
2	4	PC	CT2251	Operating Systems	T	3	0	0	3	3	30	20	50	3 Hours
3	4	PC	CT2252	Lab: Operating Systems	P	0	0	2	2	1		60	40	
4	4	PC	CT2253	Advanced Data Structures	T	4	0	0	4	4	30	20	50	3 Hours
5	4	PC	CT2254	Lab: Advanced Data Structures	P	0	0	2	2	1		60	40	
6	4	PC	CT2255	Mathematical Foundations for Data Analysis	T	3	0	0	3	3	30	20	50	3 Hours
7	4	PC	CT2256	Lab: Mathematical Foundations for Data Analysis	P	0	0	2	2	1		60	40	
8	4	PC	CT2257	Database Management Systems	T	3	0	0	3	3	30	20	50	3 Hours
9	4	PC	CT2258	Lab: Database Management Systems	P	0	0	2	2	1		60	40	
TOTAL						16	0	8	24	20				

Audit Courses														
1	3	HS	GE2121	Env Studies for 3 Sem. EL,ET,CT	A	3	0	0	3	0				
2	3	HS	AU2123	YCCE Communication Aptitude Preparation (YCAP3)	A	3	0	0	3	0				
3	4	HS	AU2124	YCCE Communication Aptitude Preparation (YCAP4.1) for CV,ME,CT,IT,CSE	A	3	0	0	3	0				

MSEs* = Two MSEs of 15 Marks each will conducted and marks of these 2 MSEs will be considered for Continuous Assessment

TA ** = for Theory : 5 marks on lecture quizzes, 11 marks on TA2+TA4 activities decided by course teacher, 4 marks on class attendance

TA = for Practical : MSPA will be 15 marks each**

		June 2022	1.05	Applicable for AY 2022-23 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



B.TECH SCHEME OF EXAMINATION 2020-21

(Revised Scheme of Examination w.e.f. 2022-23 onward)

Computer Technology

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Fifth Semester														
1	5	HS	GE2312	Fundamentals of Economics	T	3	0	0	3	3	30	20	50	3 Hours
2	5	PC	CT2301	Computer Networks	T	3	0	0	3	3	30	20	50	3 Hours
3	5	PC	CT2302	Lab: Computer Networks	P	0	0	2	2	1		60	40	
4	5	PC	CT2303	Theoretical Foundations of Computer Science	T	4	0	0	4	4	30	20	50	3 Hours
5	5	PE		Professional Elective-I	T	3	0	0	3	3	30	20	50	3 Hours
6	5	PE		Lab: Professional Elective-I	P	0	0	2	2	1		60	40	
7	5	OE		Open Elective - I *	T	3	0	0	3	3	30	20	50	3 Hours
8	5	OE		Open Elective - II *	T	3	0	0	3	3	30	20	50	3 Hours
9	5/6	STR	CT2310	IND VISIT and its report	P	0	0	0	0	1		100		
TOTAL						19	0	4	23	22				

Professional Electives -I

1	5	PE-I	CT2311	PE I: Randomized Algorithm
	5	PE-I	CT2312	PE I: Lab Randomized Algorithm
2	5	PE-I	CT2313	PE I: Mobile Operating System
	5	PE-I	CT2314	PE I: Lab: Mobile Operating System
3	5	PE-I	CT2315	PE I: Advanced Web Technologies
	5	PE-I	CT2316	PE I: Lab: Advanced Web Technologies
4	5	PE-I	CT2317	PE I: Introduction to Geographical Information System
	5	PE-I	CT2318	PE I: Lab: Introduction to Geographical Information System
5	5	PE-I	CT2319	PE I: Computer Graphics
	5	PE-I	CT2320	PE I: Lab: Computer Graphics
6	5	PE-I	CT2321	PE I: Realtime Systems
	5	PE-I	CT2322	PE I: Lab:Realtime Systems
7	5	PE-I	CT2323	PEI : Privacy and Security in Online Social Networks
	5	PE-I	CT2324	PEI : Lab: Privacy and Security in Online Social Networks

Open Electives -I

1	5	OE-I	CT2325	OE I: Introduction to DBMS
2	5	OE-I	CT2326	OE I: Essentials of IT
3	5	OE-I	CT2327	OE I: Image Processing
4	5	OE-I	CT2328	OE I: Operating System Concepts
5	5	OE-I	CT2329	OE-I Introduction to Salesforce

Open Electives -II

1	5	OE-II	CT2331	OE II: Soft Computing
2	5	OE-II	CT2332	OE II: Software Testing
3	5	OE-II	CT2333	OE II: Internet Technology
4	5	OE-II	CT2334	OE II: Multimedia and Animation
5	5	OE-II	CT2335	OE II: Current Trends and Technologies

Audit Courses

1	5	HS	AU2126	YCCE Communication Aptitude Preparation (YCAP5.1) for CV,ME,CT,IT,CSE	A	3	0	0	3	0				
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MSEs* = Two MSEs of 15 Marks each will conducted and marks of these 2 MSEs will be considered for Continuous Assessment

TA ** = for Theory : 5 marks on lecture quizzes, 11 marks on TA2+TA4 activitied decided by course teacher, 4 marks on class attendance

TA = for Practical : MSPA will be 15 marks each**

		June 2022	1.05	Applicable for
Chairperson	Dean (Acad. Matters)	Date of Release	Version	AY 2022-23 Onwards



B.TECH SCHEME OF EXAMINATION 2020-21
(Revised Scheme of Examination w.e.f. 2022-23 onward)

Computer Technology

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Sixth Semester														
1	6	HS	GE2311	Fundamentals of Management	T	3	0	0	3	3	30	20	50	3 Hours
2	6	PC	CT2351	Design & Analysis of Algorithms	T	3	0	0	3	3	30	20	50	3 Hours
3	6	PC	CT2352	Lab: Design & Analysis of Algorithms	P	0	0	2	2	1		60	40	
4	6	PC	CT2353	Language Processor	T	3	0	0	3	3	30	20	50	3 Hours
5	6	PC	CT2354	Lab: Language Processor	P	0	0	2	2	1		60	40	
6	6	PC	CT2355	Software Engineering	T	3	0	0	3	3	30	20	50	3 Hours
7	6	PC	CT2356	Lab: Software Engineering	P	0	0	2	2	1		60	40	
8	6	PE		Professional Elective-II	T	3	0	0	3	3	30	20	50	3 Hours
9	6	PE		Lab: Professional Elective-II	P	0	0	2	2	1		60	40	
10	6	OE		Open Elective - III **	T	3	0	0	3	3	30	20	50	3 Hours
11	6	OE		Open Elective - IV **	T	3	0	0	3	3	30	20	50	3 Hours
TOTAL						21	0	8	29	25				

Professional Electives -II

1	6	PE-II	CT2361	PE II: Digital Image Processing
	6	PE-II	CT2362	PE II: Lab: Digital Image Processing
2	6	PE-II	CT2363	PE II: Internet of Things
	6	PE-II	CT2364	PE II: Lab: Internet of Things
3	6	PE-II	CT2365	PE II: Business Intelligence
	6	PE-II	CT2366	PE II: Lab: Business Intelligence
4	6	PE-II	CT2367	PE II: Introduction to Natural Language Processing
	6	PE-II	CT2368	PE II: Lab: Introduction to Natural Language Processing
5	6	PE-II	CT2369	PE II: Customer Relationship Management
	6	PE-II	CT2370	PE II: Lab: Customer Relationship Management

Open Electives -III

1	6	OE-III	CT2371	OE III: Introduction to DBMS
2	6	OE-III	CT2372	OE III: Essentials of IT
3	6	OE-III	CT2373	OE III: Image Processing
4	6	OE-III	CT2374	OE III: Operating System Concepts
5	6	OE-III	CT2375	OE III: Introduction to Salesforce

Open Electives -IV

1	6	OE-IV	CT2381	OE IV: Soft Computing
2	6	OE-IV	CT2382	OE IV: Software Testing
3	6	OE-IV	CT2383	OE IV: Internet Technology
4	6	OE-IV	CT2384	OE IV: Multimedia and Animation
5	6	OE-IV	CT2385	OE IV: Current Trends and Technologies

Audit Courses

1	6	HS	AU2130	YCCE Communication Aptitude Preparation (YCAP6.3) for CT, IT, CSE	A	3	0	0	3	0				
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MSEs* = Two MSEs of 15 Marks each will conducted and marks of these 2 MSEs will be considered for Continuous Assessment

TA ** = for Theory : 5 marks on lecture quizzes, 11 marks on TA2+TA4 activities decided by course teacher, 4 marks on class attendance

TA = for Practical : MSPA will be 15 marks each**

		June 2022	1.05	Applicable for AY 2022-23 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



B.TECH SCHEME OF EXAMINATION 2020-21

(Revised Scheme of Examination w.e.f. 2022-23 onward)

Computer Technology

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Seventh Semester														
1	7	PC	CT2401	Artificial Intelligence	T	3	0	0	3	3	30	20	50	3 Hours
2	7	PC	CT2402	Lab: Artificial Intelligence	P	0	0	2	2	1		60	40	
3	7	PC	CT2403	Network Security	T	3	0	0	3	3	30	20	50	3 Hours
4	7	PE		Professional Elective-III	T	3	0	0	3	3	30	20	50	3 Hours
5	7	PE		Professional Elective-IV	T	3	0	0	3	3	30	20	50	3 Hours
6	7	PE		Lab: Professional Elective-IV	P	0	0	2	2	1		60	40	
7	7	PE		Professional Elective-V	T	3	0	0	3	3	30	20	50	3 Hours
8	7	STR	CT2409	Mini Project	P	0	0	4	4	2		60	40	
9	7	STR	CT2410	Campus Recruitment Training (CRT)	P	0	0	0	0	2		100		
TOTAL						15	0	8	23	21				

Professional Electives -III

1	7	PE-III	CT2411	PE III: Neural Network & Fuzzy Logic
2	7	PE-III	CT2412	PE III: Adhoc Wireless Network
3	7	PE-III	CT2413	PE III: Information Retrieval System
4	7	PE-III	CT2414	PE III: Human Computer Interaction
5	7	PE-III	CT2415	PE III: Business Intelligence and Applications

Professional Electives -IV

1	7	PE-IV	CT2421	PE IV: Pattern Recognition
	7	PE-IV	CT2422	PE IV: Lab: Pattern Recognition
2	7	PE-IV	CT2423	PE IV: Cyber Forensic
	7	PE-IV	CT2424	PE IV: Lab: Cyber Forensic
3	7	PE-IV	CT2425	PE IV: Machine Learning
	7	PE-IV	CT2426	PE IV: Lab: Machine Learning
4	7	PE-IV	CT2427	PE IV: Design Patterns
	7	PE-IV	CT2428	PE IV: Lab: Design Patterns
5	7	PE-IV	CT2429	PE IV: Mobile Communication
	7	PE-IV	CT2430	PE IV: Lab: Mobile Communication
6	7	PE-IV	CT2431	PE IV: Software Project Management
	7	PE-IV	CT2432	PE IV: Lab: Software Project Management
7	7	PE-IV	CT2433	PE IV: Numerical Computing
	7	PE-IV	CT2434	PE IV: Lab: Numerical Computing

Professional Electives -V

1	7	PE-V	CT2435	PE V: Cloud Computing
2	7	PE-V	CT2436	PE V: Parallel Programming
3	7	PE-V	CT2437	PE V: Data Mining
4	7	PE-V	CT2438	PE V: Embedded Systems
5	7	PE-V	CT2439	PE V: Operations Research
5	7	PE-V	CT2440	PE V: Bioinformatics

MSEs* = Two MSEs of 15 Marks each will conducted and marks of these 2 MSEs will be considered for Continuous Assessment

TA ** = for Theory : 5 marks on lecture quizzes, 11 marks on TA2+TA4 activities decided by course teacher, 4 marks on class attendance

TA = for Practical : MSPA will be 15 marks each**

		June 2022	1.05	Applicable for AY 2022-23 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



B.TECH SCHEME OF EXAMINATION 2020-21
(Revised Scheme of Examination w.e.f. 2022-23 onward)

Computer Technology

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Eighth Semester														
1	8	STR	CT2451	Major Project	P	0	0	12	12	9		60	40	
2	8	STR	CT2452	Extra curricular Activity Evaluation	P	0	0	0	0	1		100		
TOTAL						0	0	12	12	10				
GRAND TOTAL						85	0	48	133	163				

MSEs* = Two MSEs of 15 Marks each will conducted and marks of these 2 MSEs will be considered for Continuous Assessment

TA = for Theory : 5 marks on lecture quizzes, 11 marks on TA2+TA4 activitied decided by course teacher, 4 marks on class attendance**

TA = for Practical : MSPA will be 15 marks each**

		June 2022	1.05	Applicable for AY 2022-23 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	

Information Technology



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Department of Information Technology

YCCE/IT/NOTICE/BOS/2021-22/27

01/07/2021

Notice of BOS Meeting

To,

Member of Board of Studies in

Information Technology

Dear Sir/ Madam,

The **twenty-seventh** meeting of the Board of Studies in Information Technology is scheduled on **Saturday 3rd July 2021** in an online mode on Google Meet Platform (meet.google.com/gsq-exvy-qix) at **02:00 PM**.

The agenda for the meeting is as follows:

Item No. 27.01

Welcome of new members

Item No. 27.02

Installation of member Secretary

Item No. 27.03

Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.

Item No. 27.04

To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2018) of the Undergraduate programs conducted under the Board

Item No. 27.05

To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2018 Schemes of Undergraduate and Post graduate programs conducted under the Board.

Item No. 27.06

To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate Programs.

Item No. 27.07

To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under-Graduate programs.

Version-1

Approved by:- BoS Chairman

2020-21



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Department of Information Technology

Item No. 27.08

To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board.

Item No. 27.09

To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.

Item No. 27.10

To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Even Term 2021-22

Item No. 27.11

To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG levels that will be examined in End Semester Examination Even Term 2021-22.

Item No. 27.12

Preparation of Electronic question Bank UG courses according to SoE 2018

To review solutions to all questions of Electronic Question Banks for all courses.

Item No. 27.13

To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses

Item No. 27.14


To discuss and propose scheme for Minor an Honor course and its syllabus. Discussed and proposed Certificate courses and value added courses in 2021-22.

Item No. 27.15

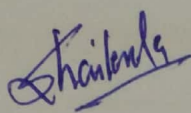
To discuss the feedback received from students/ teachers/ employers/ alumni / parents regarding reaching learning process in order to review and design the syllabus.

Item No. 27.16

Any other matter with the permission of the Chair.


Dr. R. C. Dharmik

Chairman


Prof. Shailendra W. Shende

Member Secretary

BoS in Information Technology
YCCE, Nagpur - 441110

BOS in Information Technology

Version-1

Approved by:- BoS Chairman

2020-21



Department of Information Technology

YCCE/IT/FORMAT/BOS/MOM/27

12/07/2021

Minutes of BOS Meeting

The **twenty-seventh meeting** of the Board of Studies in **Information Technology** was held on **Saturday, 3rd July 2021** in an online mode on Google Meet Platform (meet.google.com/gsq-exvy-qix) at **02:00 PM**.

Following are the minutes of the meeting:

Item No. 27.01

Welcome of new members

BoS Chairman Welcome all the external and internal members.

Item No. 27.02

Installation of member Secretary (Comment: If there is a change from previous meeting)

No

Item No. 27.03

Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.

Minutes of 26th BoS meeting and CDW-8 were read by Member secretary and approved by the BoS unanimously.

Item No. 27.04

To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2014 & Autonomous 2018) of the Undergraduate and Post graduate programs conducted under the Board

Run only two open electives instead of four, and space created can be utilized by the Professional electives.

Item No. 27.05

To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2014 & Autonomous 2018 Schemes of Undergraduate and Post graduate programs conducted under the Board.

Following Minor Changes in the VII Sem. courses of SoE-2018 has been suggested by the course teachers and approved by the expert members.

Sem	Course	Suggestions
VI	IT2361: PE-II Machine Learning	Topic to be added: basics of feature engineering in Unit-V
V&VII	Information Security (OE)	Public key cryptography contents should



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Department of Information Technology

		be added in course.
IV	IT2251-DSPD-II	Mutually Interchange the sequence for the unit 5(Pattern matching) & 6 (Hash table, File Organization, external sort)

Item No. 27.06

To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate and Postgraduate Programs.

NO

Item No. 27.07

To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under-Graduate and Post Graduate programs.

No Change.

Item No. 27.08

To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board.

No Change.

Item No. 27.09

To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.

No Change..

Item No. 27.10

To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of EVEN Term 2021-22

Prepared and circulated among the BoS member for approval. Panel is approved with minor changes.

Item No. 27.11

To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination EVEN Term 2020-21.

**Department of Information Technology**

Prepared and circulated among the BoS member for approval. Panel is approved with minor changes.

Item No. 27.12

Preparation of Electronic question Bank UG courses according to SoE 2018

To review solutions to all questions of Electronic Question Banks for all courses.

STATUS OF QUESTION BANKS WITH SOLUTION SET AVAILABLE FOR SESSION 2020-21 ARE AS UNDER:

*- indicates E-question bank targeted for subjects in session 2020-21.

All other E-question banks are already prepared in session 2019-20 and are available

	Electronic question Bank in session 2020-21 available FOR following subjects	Solution set completion status (in %)	Faculty name
I SEM	(ITCP)	100	B.U.BAWANKAR
III SEM			
	DCM	40%	S.S.GOGULOTHU
	OOP	80%	N.R.WANKHADE
	DSPD1	100%	N.R.WANKHADE
	CAO	100	S.G.KALE
IV SEM			
	DSPD2		S.S.CHAVHAN
	CN	80%	A.D.GAIKWAD
	OS		DR.K.K.BHOYAR
	TOC		B.U.BAWANKAR
V SEM			
	DBMS	80%	P.G.JAISWAL



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Department of Information Technology

	SE		A.D.GAIKWAD
	DAS	80%	R.A.FADNAVIS
	*WP - question bank complete	NA	S.G.KALE
	*CRM- question bank incomplete	NA	A.D.GAIKWAD
VI - SEM			
	DAA		B.U.BAWANKAR
	PCD		DR.R.C.DHARMIK
	BI	60%	R.A.FADNAVIS
	*ML- question bank	NA	DR.K.K.BHOYAR
	IOT	100%	S.S.GOGULOTHU
VII SEM			
	PCD		DR.R.C.DHARMIK
	RTS	40%	S.W.SHENDE
	DS		S.S.CHAVHAN
	DM	50%	P.G.JAISWAL
	NNFL		DR.U.H.GAWANDE
	CC	40%	A.D.GAIKWAD
	NS		S.G.KALE

Item No. 27.13

To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses

Reduce the number of options given and to have more compulsory questions.



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Department of Information Technology

Item No. 27.14

To discuss and propose scheme for Minor an Honor course and its syllabus. Discussed and proposed Certificate courses and value added courses in 2021-22.

SoE and Syllabi of following Minor and Honors Programme were discussed and approved with following suggestions:

1. B.E. Minor in Cloud Computing and Big Data Analytics
2. B.E. Honors in Data Sciences and Machine Learning
3. B.E. Honor in Cyber Security (Industry Associated-CryptoForensic)
4. B.E. Honors in Soft Computing (SWAYAM/NPTEL Courses)

In case of SWAYAM/NPTEL Courses we do not have any control over courses which will be offered by them in a particular semester. So mapping of courses with each semester will not work here. So provide the list of total around 10 to 12 courses and ask the students to complete and submit the certificates of any 6 courses in order to get the said degree in a stipulated time period.

Item No. 27.15

To discuss the feedback received from students/ teachers/ employers/ alumni / parents regarding reaching learning process in order to review and design the syllabus.


Minor Changes received by course teachers were discussed.

Feedback By students : Concern about the more number of open elective, needs to be reduce. Remove Network Programming Course.

Item No. 27.16

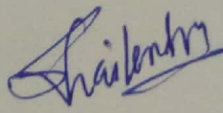
Any other matter with the permission of the Chair

Number of Open electives to be reduced to two and increase the number of Professional Electives or introduce seminar and mini project in 5 & 6 Sem.


Dr. R. C. Dharmik

Chairman

BoS in Information Technology


Prof. Shailendra W. Shende

Member Secretary

BoS in Information Technology

Head, Deptt. of Information Technology
Encl: Syllabus copy of 3 Courses for minor changes.



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Department of Information Technology

05/01/2022

YCCE/IT/NOTICE/BOS/2021-22/28

Agenda BOS Meeting-28

To,

Member of Board of Studies in
Information Technology

Dear Sir/ Madam,

The twenty-eighth meeting of the Board of Studies in Information Technology is scheduled on Saturday 15th January 2022 in an online mode on Google Meet Platform at 11:00 AM.

The agenda for the meeting is as follows:

Item No. 28.01

Welcome of new members

Item No. 28.02

Installation of member Secretary

Item No. 28.03

Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.

Item No. 28.04

To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2018) of the Undergraduate programs conducted under the Board

Item No. 28.05

To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2018 Schemes of Undergraduate and Post graduate programs conducted under the Board

Item No. 28.06

To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate Programs.

Item No. 28.07

To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under-Graduate programs.

Version-1

Approved by:- BoS Chairman

2021-22



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Item No. 28.08

To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board.

Item No. 28.09

To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.

Item No. 28.10

To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Odd Term/Even Term 2021-22

Item No. 28.11

To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG levels that will be examined in End Semester Examination Even Term 2021-22.

Item No. 28.12

Preparation of Electronic question Bank UG courses according to SoE 2018
To review solutions to all questions of Electronic Question Banks for all courses.

Item No. 28.13

To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses.

Item No. 28.14

To discuss and propose scheme for Minor an Honor course and its syllabus. To Discuss and propose Certificate courses and value added courses in 2021-22.

Item No. 28.15

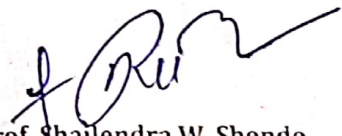
To discuss the feedback received from students/ teachers/ employers/ alumni / parents regarding reaching learning process in order to review and design the syllabus.

Item No. 28.16

Any other matter with the permission of the Chair.


Dr. R. C. Dharmik

Chairman
Head, Deptt. of Information Tech.,
YCCOE, NAGPUR - 441110
Department of Information Technology


Prof. Shailendra W. Shende
Assistant Secretary
Member of the Board
Dept. of Information Tech.
YCCOE, NAGPUR - 441110



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Department of Information Technology

YCCE/IT/FORMAT/BOS/MOM/28

17/01/2022

Minutes of BOS Meeting

The twenty-eighth meeting of the Board of Studies in Information Technology was held on Saturday, 15th January 2022 in an online mode on Google Meet Platform (<https://meet.google.com/sbm-bmkj-fnu>) at 11:00 AM.
Following BoS Members were present:

Sr. No.	Name	Sr. No.	Name
1.	Dr. R. C. Dharmik, Chairman	15	Mr. S. S. Chavhan
2.	Dr. U. A. Deshpande Prof. CSE VNIT, Nagpur	16	Ms. Kavita Gudadhe
3.	Dr. Latesh Malik, Prof. CSE GCOE, Nagpur	17	Ms. Warsha Sirskar
4.	Mr. Sandesh Supekar, Manager, TCS Pune	18	Ms. Swapna Kamble
5.	Mr. Abhishek Nachankar, Member PG Alumni	19	Ms. Bhagyashri Mankar
6.	Mr. S. W. Shende, Member Secretary	20	Mrs. Sakshi Gabhane
7.	Dr U. H. Gawande	21	Ms. Rutuja Chirwatkar
8.	Ms. N. R. Wankhade	22	Ms. Divya Kantode
9.	Mrs. Swati G. Kale	23	Ms. Apurva Bodkhe
10.	Mr. M. K. Hadap	24	Mrs. Shraddha. G. Vaidya
11.	Mr. B. U. Bawankar	25	Ms. Minal Narad
12.	Mr. A. D. Gaikwad	26	Ms. Pallavi Thakre
13.	Ms. P. G. Jaiswal	27	Mrs. Lata Bopche (Tembhare)
14.	Mrs. Kiran Gavhale		

Leave of Absence is granted to the following Members:

1	Dr. P. S. Deshpande, Professor & Head, Deptt. of CSE, VNIT Nagpur
2	Mrs. S. S. Gugulothu



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Following are the minutes of the meeting:

Item No. 28.01

Welcome of new members

BoS Chairman Welcome the following external and internal members:

1. Dr. P. S. Deshpande
2. Dr. Latesh Malik
3. Mr. Sandesh Supekar
4. Ms. Kavita Gudadhe
5. Ms. Warsha Sirskar
6. Ms. Swapna Kamble
7. Ms. Bhagyashri Mankar
8. Mrs. Sakshi Gabhane
9. Ms. Rutuja Chirvatkar
10. Ms. Divya Kantode
11. Ms. Apurva Bodkhe
12. Mrs. Shraddha. G. Vaidya
13. Ms. Minal Narad
14. Ms. Pallavi Thakre
15. Mrs. Lata Bopche (Tembhare)

Item No. 28.02

Installation of member Secretary (Comment: If there is a change from previous meeting)

No

Item No. 28.03

Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.

Minutes and Action Taken Report of 27th BoS meeting were approved by the BoS unanimously.

Item No. 28.04

To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2018) of the Undergraduate programs conducted under the Board



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Department of Information Technology

- Shift Object Oriented Programming course to IV Sem.
- Shift Design and Analysis of Algorithm course to V Sem.
- Shift Software Engineering course to VI Sem.
- Make Cloud Computing as a Core Course.
- Maintain the ratio of credits & number of hours for the Project.

Item No. 28.05

To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2018 Schemes of Undergraduate and Post graduate programs conducted under the Board.

Following Minor Changes in the courses of SoE-2018 has been suggested by the expert members.

Sem	Course	Suggestions
III	IT2208: Software Lab	Remove Object Oriented parts, include the data handling concepts, Packages, Visualization topics.
V	IT2301: Data Base Management Systems	Add topics related to Non-Relational Databases.
VI	IT2361: PE II: Machine Learning	Add topics on Reinforcement Learning.

Item No. 28.06

To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate Programs.

NO Change

Item No. 28.07

To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under-Graduate and Post Graduate programs.

No Change.

Item No. 28.08

To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board.

No Change.



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Item No. 28.09

To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.

IV Sem. IT2253: Computer networks

VI Sem. IT2351: Design and Analysis of Algorithms

Item No. 28.10

To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of EVEN Term 2021-22

Prepared and circulated among the BoS member for approval. Panel is approved.

Item No. 28.11

To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination EVEN Term 2020-21.

Prepared and circulated among the BoS member for approval. Panel is approved with minor changes.

Item No. 28.12

Preparation of Electronic question Bank UG courses according to SoE 2018

To review solutions to all questions of Electronic Question Banks for all courses.

STATUS OF QUESTION BANKS WITH SOLUTION SET AVAILABLE FOR SESSION 2021-22
ARE AS UNDER:

SR. NO.	Semester	Sub_code	Subject name	Name of Faculty	E-Question Bank status [completed/not completed]	Solution set status
1	1 st/2nd	IT2101	Introduction to Computer Programming	Prof.B.U.Bawankar	Completed	In-process
2	3rd	IT2201	Digital Circuits & Microprocessors	Prof. S.S.Goguluthu/ Kavita Gudadhe	In-process	
3		IT2203	Object Oriented Programming	Prof. N.R.Wankhade	Completed	In-process
3		IT2205	Data Structures and Program Design-I	Prof.B.U.Bawankar/ Prof.S.S.Chavhan	Completed	In-process
4		IT2207	Computer Architecture & Organization (Self-Learning-Online)	Prof. S.G.Kale/ K.R. Gavhale	Completed	In-process
5	4th	IT2251	Data Structures and Program Design-II	Prof.S.W.Shende/Prof.S.S.C havhan	Completed	In-process
6		IT2253	Computer Networks	PROF.A.D. GAIKWAD	Completed	In-process
7		IT2255	Operating Systems	K.R. Gavhale, Rutuja Chirwatkar	Completed	In-process
8		IT2257	Theory of Computation	Prof.B.U.Bawankar	Completed	In-process
9	5th	IT2301	Data Base Management Systems	Prof. P. G. Jaiswal	Completed	In-process



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10	6th	IT2303	Software Engineering (Self - LearningOnline)	PROF.A.D.GAIKWAD	Incomplete	
11		IT2311	PE I: Web Programming	Prof. S.G.Kale	Completed	
12		IT2313	PE I: Data Analysis and Statistics			
13		IT2315	PE I: Customer Relationship Management	PROF.A.D.GAIKWAD	Incomplete	
14		IT2321	OE I: Industry 4.0	Prof. S.S.Goguluthu		In process
15		IT2322	OE I: Core JAVA	Prof. N.R.Wankhade	Completed	
16		IT2331	OE II: Introduction to Machine Learning	Prof.S.S.Chavhan/Dr.U.H.Gawande	Completed	Completed
17		IT2332	OE II: Information Security	Prof. S.G.Kale/Prof. P. G. Jaiswal		
18		IT2351	Design & Analysis of Algorithms	Prof. N.R.Wankhade	Completed	In process
19		IT2353	Principles of Compiler Design	Dr. R. C. Dharmik	Completed	Completed
20		IT2361	PE II::Machine Learning	Dr.U.H.Gawande	Completed	Completed
21		IT2363	PE II: Business Intelligence	Prof. P. G. Jaiswal		
22		IT2365	PE II: Internet of Things	Prof. S.S.Goguluthu/ Divya Kantode		
23		IT2371	OE-III: Industry 4.0	Prof. S.S.Goguluthu		
24		IT2372	OE-III : Core JAVA	Prof. N.R.Wankhade	Completed	In process
25		IT2381	OE-IV : Introduction to Machine Learning	Prof.S.S.Chavhan/Dr.U.H.Gawande	Completed	Completed
26	IT2382	OE-IV : Information Security	Prof. S.G.Kale			
27	7th	IT2401	Data Mining	Prof. P. G. Jaiswal	Completed	In process
28		IT2403	Principles of Artificial Intelligence	Prof. S.G.Kale	In process	
29		IT2411	PE III: Cloud Computing	Dr. R. C. Dharmik	Completed	In process
30		IT2412	PE III:Real Time Systems	Prof.S.W.Shende	Completed	In process
31		IT2413	PE III: Network Security	Prof. S.G.Kale	Completed	
32		IT2414	PE III: Information Retrieval			
33		IT2421	PE IV: Neural Network and Fuzzy Logic	Dr.U.H.Gawande	Completed	In process
34		IT2423	PE IV: Ethical Hacking and Cyber Forensics			
35		IT2425	PE IV: Human Computer Interaction			
36		IT2427	PE IV: Parallel Computing	Prof.S.W.Shende	In-process (First Time Offered)	In process
37		IT2431	PE V: Digital Image Processing	Dr.U.H.Gawande	Completed	In process
38		IT2432	PE V: Distributed Systems	ADG/SSC/PGJ		
39		IT2433	PE V: Coding Standard and Technical Documentation	Not Offered		
40		IT2441	PE VI: Advanced Computer Architecture	Not Offered		
41		IT2442	PE VI: Mobile Communication	Prof. Hadap sir	Completed	Completed
42		IT2443	PE VI: E-commerce	Not Offered		
43		IT2444	PE VI: Natural Language Processing	Prof. S.G.Kale	Completed	



Department of Information Technology

Item No. 28.13

To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses

NO

Item No. 28.14

To discuss and propose scheme for Minor an Honor course and its syllabus. Discussed and proposed Certificate courses and value added courses in 2021-22.

SoE and Syllabi of following Minor and Honors Programme were discussed and approved:

1. B.E. Minor In Cloud Computing and Big Data Analytics
2. B.E. Honors In Data Sciences and Machine Learning
3. B.E. Honors In Soft Computing (SWAYAM/NPTEL Courses)

Item No. 28.15

To discuss the feedback received from students/ teachers/ employers/ alumni / parents regarding reaching learning process in order to review and design the syllabus.

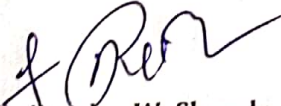
Minor Changes received by course teachers were discussed (IT2203: Object Oriented Programming)


Feedback By students: Concern about the more number of open elective, needs to be reduce.

Item No. 28.16

Any other matter with the permission of the Chair

Nil


Prof. Shailendra W. Shende
Assistant Professor
Department of Information Technology
YCCEE, NAGPUR - 441110


DR. R. C. Dharmik
Chairman
Head, Deptt. of Information Technology
B.E. Deptt. of Information Technology
Nagpur

Encl: Syllabus copy of IT2203: Object Oriented Programming for minor changes.



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B.TECH SCHEME OF EXAMINATION 2020-21
 (Revised Scheme of Examination w.e.f. 2022-23 onward)

SoE No.
IT-202.1

Information Technology

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
TOTAL FIRST & SECOND SEM										47				
Third Semester														
1	3	BS	GE2201	Engineering Mathematics III	T	3	0	0	3	3	30	20	50	3
2	3	PC	IT2201	Digital Circuits & Microprocessors	T	3	0	0	3	3	30	20	50	3
3	3	PC	IT2202	Digital Circuits & Microprocessors Lab	P	0	0	2	2	1		60	40	
4	3	PC	IT2203	Object Oriented Programming	T	3	0	0	3	3	30	20	50	3
5	3	PC	IT2204	Object Oriented Programming Lab	P	0	0	2	2	1		60	40	
6	3	PC	IT2205	Data Structures and Program Design-I	T	4	0	0	4	4	30	20	50	3
7	3	PC	IT2206	Data Structures and Program Design-I Lab	P	0	0	2	2	1		60	40	
8	3	PC	IT2207	Computer Architecture & Organization (Self-Learning-Online)	T	3	0	0	3	3	30	20	50	3
9	3	PC	IT2208	Software Lab	P	0	0	2	2	1		60	40	
TOTAL THIRD SEM						16	0	8	24	20				

Fourth Semester														
1	4	BS	GE2206	Discrete Mathematics and Probability Theory	T	3	0	0	3	3	30	20	50	3
2	4	PC	IT2251	Data Structures and Program Design-II	T	3	0	0	3	3	30	20	50	3
3	4	PC	IT2252	Data Structures and Program Design-II Lab	P	0	0	2	2	1		60	40	
4	4	PC	IT2253	Computer Networks	T	4	0	0	4	4	30	20	50	3
5	4	PC	IT2254	Computer Networks Lab	P	0	0	2	2	1		60	40	
6	4	PC	IT2255	Operating Systems	T	3	0	0	3	3	30	20	50	3
7	4	PC	IT2256	Operating Systems Lab	P	0	0	2	2	1		60	40	
8	4	PC	IT2257	Theory of Computation	T	3	0	0	3	3		60	40	
TOTAL FOURTH SEM						16	0	6	22	19				

Audit Courses														
1	4	HS	GE2121	Env Studies for 4 Sem. CV,ME,EE,IT	A	3	0	0	3	0				
2	3	HS	AU2123	YCCE Communication Aptitude Preparation (YCAP3)	A	3	0	0	3	0				
3	4	HS	AU2124	YCCE Communication Aptitude Preparation (YCAP4.1) for CV,ME,CT,IT,CSE	A	3	0	0	3	0				

MSEs* = Two MSEs of 15 Marks each will conducted and marks of these 2 MSEs will be considered for Continuous Assessment

TA = for Theory : 5 marks on lecture quizzes, 11 marks on TA2+TA4 activities decided by course teacher, 4 marks on class attendance**

TA = for Practical : MSPA will be 15 marks each**

		June 2022	1.05	Applicable for AY 2022-23 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering
 (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
B.TECH SCHEME OF EXAMINATION 2020-21
 (Revised Scheme of Examination w.e.f. 2022-23 onward)

SoE No.
IT-202.1

Information Technology

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
TOTAL FIRST & SECOND SEM										47				
Fifth Semester														
1	5	HS	GE2312	Fundamental of Economics	T	3	0	0	3	3	30	20	50	3
2	5	PC	IT2301	Data Base Management Systems	T	3	0	0	3	3	30	20	50	3
3	5	PC	IT2302	Lab : Data Base Management Systems	P	0	0	2	2	1		60	40	
4	5	PC	IT2303	Software Engineering (Self -Learning-Online)	T	3	0	0	3	3	30	20	50	3
5	5	PE		Professional Elective - I	T	3	0	0	3	3	30	20	50	3
6	5	PE		Lab : Professional Elective-I	P	0	0	2	2	1		60	40	
7	5	OE		Open Elective-I	T	3	0	0	3	3	30	20	50	3
8	5	OE		Open Elective-II	T	3	0	0	3	3	30	20	50	3
9	5	STR	IT2310	Industrial Visit and Learning	P	0	0	0	0	1		100		
TOTAL FIFTH SEM						18	0	4	22	21				

Professional Electives -I

1	5	PE-1	IT2311	PE I: Web Programming
	5	PE-1	IT2312	PE I: Lab.: Web Programming
2	5	PE-1	IT2313	PE I: Data Analysis and Statistics
	5	PE-1	IT2314	PE I: Lab.: Data Analysis and Statistics
3	5	PE-1	IT2315	PE I: Customer Relationship Management
	5	PE-1	IT2316	PE I: Lab. Customer Relationship Management
4	5	PE-1	IT2317	PE I: Mobile Operating System
	5	PE-1	IT2318	PE I: Lab. Mobile Operating System

Open Electives -I

1	5	OE I	IT2321	OE I: Industry 4.0
2	5	OE I	IT2322	OE I: Core JAVA
3	5	OE I	IT2323	OE I: Introduction to Data Science

Open Electives -II

1	5	OE-II	IT2331	OE II: Introduction to Machine Learning
2	5	OE-II	IT2332	OE II: Information Security
3	5	OE-II	IT2333	OE II: Concepts in Web Programming

Audit Courses

1	5	HS	AU2126	YCCE Communication Aptitude Preparation (YCAP5.1) for CV,ME,CT,IT,CSE	A	3	0	0	3	0			
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MSEs* = Two MSEs of 15 Marks each will conducted and marks of these 2 MSEs will be considered for Continuous Assessment

TA = for Theory : 5 marks on lecture quizzes, 11 marks on TA2+TA4 activities decided by course teacher, 4 marks on class attendance**

TA = for Practical : MSPA will be 15 marks each**

		June 2022	1.05	Applicable for AY 2022-23 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering
 (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
B.TECH SCHEME OF EXAMINATION 2020-21
 (Revised Scheme of Examination w.e.f. 2022-23 onward)

SoE No.
IT-202.1

Information Technology

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
TOTAL FIRST & SECOND SEM										47				
Sixth Semester														
1	6	HS	GE2311	Fundamentals of Management	T	3	0	0	3	3	30	20	50	3
2	6	PC	IT2351	Design & Analysis of Algorithms	T	3	0	0	3	3	30	20	50	3
3	6	PC	IT2352	Lab: Design & Analysis of Algorithms	P	0	0	2	2	1		60	40	
4	6	PC	IT2353	Principles of Compiler Design	T	3	0	0	3	3	30	20	50	3
5	6	PC	IT2354	Lab: Principles of Compiler Design	P	0	0	2	2	1		60	40	
6	6	PE		Professional Elective - II	T	3	0	0	3	3	30	20	50	3
7	6	PE		Lab : Professional Elective-II	P	0	0	2	2	1		60	40	
8	6	OE		Open Elective-III	T	3	0	0	3	3	30	20	50	3
9	6	OE		Open Elective-IV	T	3	0	0	3	3	30	20	50	3
TOTAL SIXTH SEM						18	0	6	24	21				

List of Professional Electives-I & II

Professional Electives -II														
1	6	PE-2	IT2361	PE II::Machine Learning										
	6	PE-2	IT2362	PE II:Machine Learning Lab										
2	6	PE-2	IT2363	PE II: Business Intelligence										
	6	PE-2	IT2364	PE II: Lab.: Business Intelligence										
3	6	PE-2	IT2365	PE II: Internet of Things										
	6	PE-2	IT2366	PE II: Lab.: Internet of Things										
4	6	PE-2	IT2367	PE II: Big Data Analytics										
	6	PE-2	IT2368	PE II: Lab. Big Data Analytics										

Open Electives -III

1	6	OE-III	IT2371	OE-III : Industry 4.0										
2	6	OE-III	IT2372	OE-III : Core JAVA										
3	6	OE-III	IT2373	OE-III : Introdcution to Data Science										

Open Electives -IV

1	6	OE-IV	IT2381	OE-IV: Introduction to Machine Learning										
2	6	OE-IV	IT2382	OE-IV: Information Security										
3	6	OE-IV	IT2383	OE-IV: Concepts in Web Programming										

Audit Courses

1	6	HS	AU2130	YCCE Communication Aptitude Preparation (YCAP6.3) for CT, IT, CSE	A	3	0	0	3	0				
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MSEs* = Two MSEs of 15 Marks each will conducted and marks of these 2 MSEs will be considered for Continuous Assessment

TA ** = for Theory : 5 marks on lecture quizzes, 11 marks on TA2+TA4 activitied decided by course teacher, 4 marks on class attendance

TA** = for Practical : MSPA will be 15 marks each

		June 2022	1.05	Applicable for AY 2022-23 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



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B.TECH SCHEME OF EXAMINATION 2020-21
 (Revised Scheme of Examination w.e.f. 2022-23 onward)

SoE No.
IT-202.1

Information Technology

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
TOTAL FIRST & SECOND SEM										47				
Seventh Semester														
1	7	PC	IT2401	Data Mining	T	3	0	0	3	3	30	20	50	3
2	7	PC	IT2402	Lab.: Data Mining	P	0	0	2	2	1		60	40	
3	7	PC	IT2403	Principles of Artificial Intelligence	T	3	0	0	3	3	30	20	50	3
4	7	PE		Professional Elective III	T	3	0	0	3	3	30	20	50	3
5	7	PE		Professional Elective IV	T	3	0	0	3	3	30	20	50	3
6	7	PE		Lab.: Professional Elective IV	P	0	0	2	2	1		60	40	
7	7	PE		Professional Elective V	T	3	0	0	3	3	30	20	50	3
8	7	PE		Professional Elective VI	T	3	0	0	3	3	30	20	50	3
9	7	STR	IT2409	Mini Project	P	0	0	4	4	2		60	40	
10	7	STR	IT2410	Campus Recruitment Training (CRT)	P	0	0	0	0	2		100		
TOTAL SEVENTH SEM						18	0	8	26	24				

List of Professional Electives-III, IV,V & VI

Professional Electives -III														
1	7	PE-3	IT2411	PE III: Cloud Computing										
2	7	PE-3	IT2412	PE III:Real Time Systems										
3	7	PE-3	IT2413	PE III: Network Security										
4	7	PE-3	IT2414	PE III: Information Retrieval										
Professional Electives -IV														
1	7	PE-4	IT2421	PE IV: Neural Network and Fuzzy Logic										
	7	PE-4	IT2422	PE IV: Lab.: Neural Network and Fuzzy Logic										
2	7	PE-4	IT2423	PE IV: Ethical Hacking and Cyber Forensics										
	7	PE-4	IT2424	PE IV:Lab:Ethical Hacking and Cyber Forensics										
3	7	PE-4	IT2425	PE IV: Human Computer Interaction										
	7	PE-4	IT2426	PE IV: Lab:Human Computer Interaction										
4	7	PE-4	IT2427	PE IV: Parallel Computing										
	7	PE-4	IT2428	PE IV: Lab: Parallel Computing										
Professional Electives - V														
1	7	PE-5	IT2431	PE V: Digital Image Processing										
2	7	PE-5	IT2432	PE V: Distributed Systems										
3	7	PE-5	IT2433	PE V: Coding Standard and Technical Documentation										
4	7	PE-5	IT2434	PE V: Introduction to Deep Learning										
5	7	PE-5	IT2435	PE V: Wireless Sensor Network										
Professional Electives - VI														
1	7	PE-6	IT2441	PE VI: Advanced Computer Architecture										
2	7	PE-6	IT2442	PE VI: Mobile Communication										
3	7	PE-6	IT2443	PE VI: E-commerce										
4	7	PE-6	IT2444	PE VI: Natural Language Processing										

MSEs* = Two MSEs of 15 Marks each will conducted and marks of these 2 MSEs will be considered for Continuous Assessment

TA ** = for Theory : 5 marks on lecture quizzes, 11 marks on TA2+TA4 activitied decided by course teacher, 4 marks on class attendance

TA** = for Practical : MSPA will be 15 marks each

		June 2022	1.05	Applicable for AY 2022-23 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



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B.TECH SCHEME OF EXAMINATION 2020-21
(Revised Scheme of Examination w.e.f. 2022-23 onward)

SoE No.
IT-202.1

Information Technology

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
TOTAL FIRST & SECOND SEM										47				
Eighth Semester														
1	8	STR	IT2451	Major Project	P	0	0	12	12	9		60	40	
2	8	STR	IT2452	Extra curricular Activity Evaluation	P	0	0	0	0	1		100		
TOTAL EIGHTH SEM						0	0	12	12	10				
GRAND TOTAL						86	0	44	130	162				

MSEs* = Two MSEs of 15 Marks each will conducted and marks of these 2 MSEs will be considered for Continuous Assessment

TA ** = for Theory : 5 marks on lecture quizzes, 11 marks on TA2+TA4 activitied decided by course teacher, 4 marks on class attendance

TA = for Practical : MSPA will be 15 marks each**

		June 2022	1.05	Applicable for AY 2022-23 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	

Computer Science and Engineering



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Department of Computer Science and Engineering

YCCE/CSE/NOTICE/BOS/1

6/8/2021

Notice of BOS Meeting

To,

Member of Board of Studies in
Computer Science and Engineering

Dear Sir/ Madam,

The **First meeting** of the Board of Studies in **Computer Science and Engineering** is scheduled on **Saturday 7th August' 2021** in an online mode on Google Meet Platform (Meeting ID: meet.google.com/dbe-ombu-dkh) at **10:15 AM**.

The agenda for the meeting is as follows:

Item No. 1.01

Welcome of new members

Item No. 1.02

Installation of member Secretary

Item No. 1.03

To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2020-21) of the Undergraduate program conducted under the Board.

Item No. 1.04

To discuss and suggest the minor changes in the syllabi of various courses of 3rd and 4th Semester in Autonomous 2020-21 Schemes of Undergraduate program conducted under the Board

Item No. 1.05

To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate Programs.

Item No. 1.06

To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Odd Term 2021-22



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Department of Computer Science and Engineering

Item No. 1.07

To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG level that will be examined in End Semester Examination Odd Term 2021-22

Item No. 1.08

Preparation of Electronic question Bank for core courses

Item No. 1.09

Any other matter with the permission of the Chair.

Dr. L.B. Damahe
Chairman

BoS in Computer Science and Engineering



Prof. Rupa A. Fadnavis
Member Secretary

BoS in Computer Science and Engineering



Minutes of BOS Meeting

First meeting of the Board of Studies in Computer Science & Engineering was held on Saturday, 07/08/2021 at 10:15 a.m. in online mode on Google Meet Platform (Meeting ID meet.google.com/ooo-bnzk-zxi).

The meeting was attended by the following members of BoS.

External Members

Sr. No.	Name of Honorable External Member	Position held in BoS
1	Dr. U. A. Deshpande	External Expert

BoS Members

Sr. No.	Name of Member
1	Dr. Lalit Damahe
2	Mrs. R.A.Fadnavis
3	Dr. K.K.Bhoyar

Leave of Absence was granted to following members:

Sr. No.	Name of Member
1.	Dr. P.S.Deshpande
2.	Mr. Swapnil Deshmukh

Following are the minutes of the meeting:

Item No. 1.01

Welcome of new members

BoS Chairman Dr. Lalit Damahe welcomes all the external and internal members.

Item No. 1.02

Installation of member Secretary

Mrs. Rupa Fadnavis, Assistant Professor given charge of new member secretary

Item No. 1.03

Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.

- NA

Item No. 1.04

To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2020-21) of the Undergraduate program conducted under the Board

Changes suggested are as follows:

1. Introduce new professional electives real time systems, distributed systems , parallel programming - Real time systems and Distributed systems are added in professional elective-V and Parallel programming added in Professional elective -IV

**Department of Computer Science & Engineering**

2. Remove Professional elective course Mobile Operating system - Mobile operating system has been removed and added Introduction to soft computing in its place
3. Instead of discrete maths and probability theory , discrete maths and graph theory should be included - change has been incorporated .

Item No. 1.05

To discuss and suggest the minor changes in the syllabi of various courses in 3rd and 4th semester courses in Autonomous 2020-21 Schemes of Undergraduate program conducted under the Board.

Following Minor Changes in the III and IV Semester courses of SoE-2020-21 has been suggested by the expert members:

Course	Suggestions
CSE2202 Object Oriented Programming CSE2203 lab: Object Oriented Programming	Either of two syllabi suggested can be kept, object oriented programming lab can have java programs List of practicals should be generalized one
GE2206- Discrete mathematics and probability Theory	Remove Probability theory contents ,and graph theory contents should be added
CSE2251- Operating system CSE2252- Lab: Operating system	Proper unitization should be done Remove case study- amoeba , introduce practical on Semaphores
CSE2204- Data Structure -I CSE2205- Lab Data Structure -I	Use standard text books List of practicals should be generalized one
CSE2253 Data Structure -II CSE2254- Lab Data Structure -II	Use standard text books List of practicals should be generalized one

Item No. 1.06

To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate and Postgraduate Programs.

Course	Suggestions
CSE2201- Computer Architecture and Organization	Add John L. Hennessy, David A. Patterson Book as a text book.
CSE2204- Data Structure -I CSE2253 Data Structure -II	Add Robert Kruse, G. L. Tondo and B. Leung book as a textbook Add Seymour Lipschutz book as a reference book
CSE2251- Operating System	Add Charles Crowley Book as reference Book



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Item No. 1.07

To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under-Graduate programs.

Course	Suggestions
CSE2203 lab: Object Oriented Programming	List of practicals should be generalized one
CSE2252- Lab: Operating system	Remove case study- amoeba , introduce practical on Semaphores
CSE2205- Lab Data Structure -I	List of practicals should be generalized one
CSE2254- Lab Data Structure -II	List of practicals should be generalized one

Item No. 1.08

To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board.-

Previous Evaluation Scheme :

New Evaluation Scheme :

MSE-1 - 15 Marks (Based on Unit 1 & 2)

MSE-1 - 15 Marks (Based on Unit 1 & 2 & 3)

MSE-2 -15 Marks (Based on Unit 3 & 4)

MSE-2 - 15 Marks (Based on Unit 4 & 5 & 6)

MSE-3 -15 Marks (Based on Unit 5 & 6)

RE-MSE -15 marks (Based on unit 1 to 6)

Item No. 1.09

To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum. - NA

Item No. 1.10

To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of ODD Term 2021-22.

The panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs for End Semester Examination of ODD Term 2020-21 was constituted.

Item No. 1.11

To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of ODD Term 2021-22- NA

Item No. 1.12

To prepare and propose the panel of Internal and external examiners for the various laboratory and other non-theory courses at UG level that will be examined in End Semester Examination ODD Term 2021-22.

The panel of internal and external examiners for the various laboratory courses at UG level for End Semester Examination of ODD Term 2021-22 was constituted.



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Department of Computer Science & Engineering

Item No. 1.13

Preparation of Electronic question Bank for core UG courses.

List of Courses for which EQB is to be prepared :

SN	Semester	Course Name
1.	III	CSE2201: Computer Architecture and Organization
2.		CSE2202: Object Oriented Programming
3.		CSE2204: Data structure -I

Item No. 1.14

To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses.

Previous Evaluation Scheme :

MSE-1 - 15 Marks (Based on Unit 1 & 2)
MSE-2 - 15 Marks (Based on Unit 3 & 4)
MSE-3 - 15 Marks (Based on Unit 5 & 6)

New Evaluation Scheme :

MSE-1 - 15 Marks (Based on Unit 1 & 2 & 3)
MSE-2 - 15 Marks (Based on Unit 4 & 5 & 6)
RE-MSE - 15 marks (Based on unit 1 to 6)

Item No. 1.15


To discuss and propose scheme for Minor an Honor course and its syllabus. Discussed and proposed Certificate courses and value added courses in 2021-22. -nil

Item No. 1.16

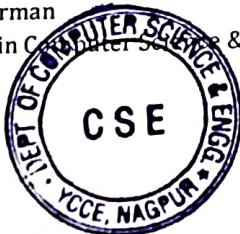
Any other matter with the permission of the Chair-

Formal Thanks to External Experts on behalf of the BoS Chairman, BoS Members and Member Secretary.

The meeting concluded by vote of thanks by chairperson, BoS of Computer Science and Engineering


Dr. L.B. Damaha

Chairman
BoS in Computer Science & Engineering




Prof. Rupa Fadnavis
Member Secretary

BoS in Computer Science & Engineering



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Department of Computer Science & Engineering

YCCE/CSE/FORMAT/BOS/MOM/1

07/08/2021

Following members of were present for BoS meeting 1 on 07/08/2021

External Members

Sr. No.	Name of Honorable External Member	Signature
1	Dr. U. A. Deshpande	
2	Dr. P.S.Deshpande	—
3	Mr. Swapnil Deshmukh	—

BoS Members

Sr. No.	Name of Member	Signature
1	Dr. Lalit Damahe, Head, CSE	
2	Mrs. R.A.Fadnavis, Member secretary	
3	Dr. K.K.Bhoyar, Member	



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Department of Computer Science and Engineering

YCCE/CSE/NOTICE/BOS/2

6/1/2022

Notice of BOS Meeting

To,

Member of Board of Studies in
Computer Science and Engineering

Dear Sir/ Madam,

The **Second meeting** of the Board of Studies in **Computer Science and Engineering** is scheduled on **Saturday 15th January' 2022** in an online mode on Google Meet Platform at **1PM.**(meet id will be mailed to all before one hour of the meet)

The agenda for the meeting is as follows:

Item No. 2.01

Welcome of new members

Item No. 2.02

Installation of member Secretary- already done in first meeting since then, no change

Item No. 2.03

Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.

Item No. 2.04

To discuss and suggest the changes in the Scheme of Examination known as Autonomous 2020-21 of the Undergraduate program conducted under the Board

Item No. 2.05

To discuss and suggest the minor changes in the syllabi of various courses of 3rd and 4th Semester in Autonomous 2020-21 Schemes of Undergraduate program conducted under the Board. (based on the remarks given by the faculty in course completion reports of previous terms, remarks given by students, teachers, employers, alumni mentioned in their feedback if any under the head of design and review of curriculum)



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Department of Computer Science and Engineering

Item No. 2.06

To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate Programs.

Item No. 2.07

To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under Graduate program

Item No. 2.08

To discuss and suggest the changes in the Academic Regulations governing the Undergraduate program conducted under the Board.

Item No. 2.09

To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.

Item No. 2.10

To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG level that will be examined in End Semester Examination Even Term 2021-22

Item No. 2.11

To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Even Term 2021-22

Item No. 2.12

To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG level that will be examined in End Semester Examination Even Term 2021-22.

Item No. 2.13

Preparation of Electronic question Bank for core courses

Item No. 2.14

To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses.

Item No. 2.15

To discuss and propose scheme for Minor an Honor course and its syllabus. To Discuss and propose Certificate courses and value added courses in 2021-22.

Item No. 2.16

Any other matter with the permission of the Chair.

Dr. L.B. Damahe
Chairman

Prof. Rupa A. Fadnavis
Member Secretary

BoS in Computer Science and Engineering

BoS in Computer Science and Engineering

Version-1

Approved by:- BoS Chairman

2021-22





Nagar Yuwak Shikshan Sanstha's

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Department of Computer Science & Engineering

YCCE/CSE/FORMAT/BOS/MOM/2

17/01/2022

Minutes of BOS Meeting

Second Meeting of the Board of Studies in **Computer Science & Engineering** was held on Saturday, 17/01/2022 at 1pm. in online mode on Google Meet Platform (Meeting ID: <https://meet.google.com/ytd-tfgm-ifg>).

The meeting was attended by the following members of BoS.

External Members

Sr. No.	Name of Honorable External Member	Position held in BoS
1	Dr. U. A. Deshpande	External Expert
2	Mr. Swapnil Deshmukh	External Expert

BoS Members

Sr. No.	Name of Member
1	Dr. Lalit Damahe
2	Mrs. R.A. Fadnavis
3	Dr. K.K. Bhojar
4	Mrs Baharati Karare
5	Ms. Kalyani Karule
6	Ms. Renuka Kadu
7	Mr. Fazil Sheikh

Leave of Absence was granted to following members:

Sr. No.	Name of Member
1.	Dr. P.S. Deshpande
2.	Dr. D.A Adane
3	Ms. Ashwini Nagpure

Following are the minutes of the meeting:

Item No. 2.01

Welcome of new members

BoS Chairman Dr. Lalit Damahe welcome all the external and internal members.

Item No. 2.02

Installation of member Secretary

Version-1

Approved By: BoS CSE

2021-22



Nagar Yuwak Shikshan Sanstha's

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Department of Computer Science & Engineering

- no

Item No. 2.03

Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.

Minutes of first BoS meeting were read by Member secretary and approved by the BoS unanimously.

Item No. 2.04

To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2020-21) of the Undergraduate program conducted under the Board

To rename PE-1 Course - advanced web technologies to web technology

Item No. 2.05

To discuss and suggest the minor changes in the syllabi of various courses in 3rd and 4th semester courses in Autonomous 2020-21 Schemes of Undergraduate program conducted under the Board.

Minor changes in the syllabus of following III Semester subject are accepted by the expert members:

semester	Course
III	CSE2201- Computer Architecture and Organization CSE2202 Object Oriented Programming

Minor changes in the syllabus of following IV Semester subject suggested by the expert members are :

se ms ter	Course	Suggestions
IV	CSE2257 Theory of Computation	Course to be shifted to higher semester or make course syllabus little lighter



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Item No. 2.06

To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate and Postgraduate Programs.

Minor changes in the books of following subject are accepted by the expert members:

semester	Course
III	CSE2206- Software laboratory CSE2202 Object Oriented Programming

Item No. 2.07

To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under-Graduate programs.

se ms ter	Course	Suggestions
IV	CSE2252- Lab: Operating system	Process Management practical should taken after semaphores or keep two separate practicals

Item No. 2.08

To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board.-

Number of quizzes should be reduced . 4-5 quizzes are sufficient

Item No. 2.09

To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum. - NA

Item No. 2.10

To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of EVEN Term 2021-22.

The panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs for End Semester Examination of Even Term 2021-22 was constituted.



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Item No. 2.11

To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Even Term 2021-22- NA

Item No. 2.12

To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG level that will be examined in End Semester Examination EVEN Term 2021-22.

The panel of internal and external examiners for the various laboratory courses at UG level for End Semester Examination of EVEN Term 2021-22 was constituted.

Item No. 2.13

Preparation of Electronic question Bank for core UG courses.

List of Courses for which EQB is to be prepared :

SN	Semester	Course Name
1.	III	CSE2201: Computer Architecture and Organization
2.		CSE2202: Object Oriented Programming
3.		CSE2204: Data structure -I

Item No. 2.14

To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses.

No suggestions

Item No. 2.15

To discuss and propose scheme for Minor an Honor course and its syllabus. Discussed and proposed Certificate courses and value added courses in 2021-22. -nil

Item No. 2.16

Any other matter with the permission of the Chair-

Formal Thanks to External Experts on behalf of the BoS Chairman, BoS Members and Member Secretary.

The meeting concluded by vote of thanks by chairperson, BoS of Computer Science and Engineering

Dr. L.B. Damahe

Chairman

BoS in Computer Science & Engineering

Prof. Rupa Fadnavis

Member Secretary

BoS in Computer Science & Engineering

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2021-22



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YCCE/CSE/FORMAT/BOS/MOM/2

17/01/2022

Following members of were present for BoS meeting 2 on 17/01/2022

External Members

Sr. No.	Name of Honorable External Member	Signature
1	Dr. U. A. Deshpande	
2	Dr. P.S.Deshpande	—
3	Mr. Swapnil Deshmukh	

BoS Members

Sr. No.	Name of Member	Signature
1	Dr. Lalit Damahe, Head, CSE	
2	Mrs. R.A.Fadnavis, Member secretary	
3	Dr. K.K.Bhoyar, Member	
4	Ms.K.P.Karule	
5	Ms. Bharti Karare	
6	Ms. Renuka Kadu	
7	Mr. Fazil Sheikh	
8	Ms. A.Nagpure	Absent.

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REC

RUPA FADNAVIS is presenting

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RUPA FADNAVIS is presenting

Fourth Semester															
21															
22															
23	1	4	BS	DE2207	Discrete Mathematics & Graph Theory	T	3	0	0	3	3	30	30	40	3 Hours
24	2	4	PC	CSE2251	Operating Systems	T	3	0	0	3	3	30	30	40	3 Hours
25	3	4	PC	CSE2252	Lab Operating Systems	P	0	0	2	2	1			60	40
26	4	4	PC	CSE2253	Data Structures II	T	3	0	0	3	3	30	30	40	3 Hours
27	5	4	PC	CSE2254	Lab Data Structures II	P	0	0	2	2	1			60	40
28	6	4	PC	CSE2255	Introduction to Data Analysis	T	3	0	0	3	3	30	30	40	3 Hours
29	7	4	PC	CSE2256	Lab Introduction to Data Analysis	P	0	0	2	2	1			60	40

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RUPA FADNAVIS is presenting

No.	Task	OS	Topic
1	Study of Windows task manager (Exploring various tabs, operations, processes, services, taskmgr, performance)	Windows	OS-1
2	Study of Advanced Linux shell commands (Process management, Memory management, Networking, etc.)	Linux Commands	OS-1
3	Write a program that illustrates the creation of child process using fork system call. Each child and parent Process perform different task.	Process Control	OS-1
4	Write a multitasking program to multiply 6 two given matrices.	Threads	OS-1
5	Simulate a priority scheduling algorithm to any non-preemptive CPU scheduling algorithm.	CPU Scheduling	OS-4
6	Write a program to perform inter-process communication using shared memory or pipe or message queue.	Inter-Process Communication	OS-4
7	Write a program that solves two process Producer-Consumer problem with bounded buffer using semaphores.	Semaphore	OS-4

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REC

RUPA FADNAVIS is presenting

CO Mapping with activities for the course	M	(12 Marks)	(12 Marks)	(12 Marks)	(12 Marks)
Course Name	Module of TA	12 ONLINE QUIZZES ON VIVA COMPLETED	Activities to be done by External teacher at completion of TA02 (Min. 3 MCQs) 5.1g + Group work	Attendance	*ACTIVITIES COMPLETED BY ALL TEACHERS (COULDS BE COMPLETED FOR FORTIFICATION
Course Code	Schedule	After completion of VIVA (VIVA) held	Project/Assignments/Video based/Research paper based/Case study/Industrial / live case study/ Coding challenges/ Hackathon/ Internship/ Training/ Workshop/ Seminar/ Guest Lecture/ etc.	Completion of projects	1. Formatted IEEE and IEEE Reference 2. SWAYAM NPTEL certificate mark with session certificate 3. Award given by the student as COURSE MASTER or TEACHER of semester from the previous semester. ACM ICPC National level
Total Credits	Medium of submission	Google Class Room		MIS	
EM - 40					
MIS - 1-15 marks		Minimum 12 Quizzes containing minimum 10			

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Department of Computer Science and Engineering

YCCE/CSE/NOTICE/BOS/3

27/7/2022

BOS MEETING-3 AGENDA JULY 2022

To,

Member of Board of Studies in Computer

Science and Engineering Dear Sir/ Madam,

The **Third meeting** of the Board of Studies in **Computer Science and Engineering** is scheduled on **Saturday 30th July' 2022 at 11AM.**

The agenda for the meeting is as follows:

Item No. 3.01

Welcome of new members

Item No. 3.02

Installation of member Secretary – no change

Item No. 3.03

Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.

Item No. 3.04

To discuss and suggest the action taken on

- i) Co/Po attainment of subjects taught in previous semester
- ii) Result analysis of subjects taught in previous semester
- iii) Stakeholders feedback on review and design of curriculum
- iv) In Sem, End Sem and Exit feedback on Teaching Learning & curriculum

Item No. 3.05

To discuss and suggest the changes in the Scheme of Examination known as Autonomous 2020-21 of the Undergraduate program conducted under the Board .and to approve and ratify SoE22 and all syllabi of B.Tech I & II year

Item No. 3.06

To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2020-21 Schemes of Undergraduate program conducted under the Board. (based on the remarks given by the faculty in course completion reports of previous terms, remarks given by students, teachers, employers, alumni mentioned in their feedback if any under the head of design and review of curriculum)



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Department of Computer Science and Engineering

Item No. 3.07

To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate Programs.

Item No. 3.08

To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under-Graduate program.

Item No. 3.09

To discuss and suggest the changes in the Academic Regulations governing the Undergraduate programs conducted under the Board.

Item No. 3.10

To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.

Item No. 3.11

To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Odd Term/Even Term 2022-23

Item No. 3.12

To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Odd/Even Term 2022-23

Item No. 3.13

To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG level that will be examined in End Semester Examination Odd/Even Term 2022-23.

Item No. 3.14

Preparation of Electronic question Bank UG courses according to SoE 2020-21
To review solutions to all questions of Electronic Question banks for all courses

Item No. 3.15

To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses.

Item No. 3.16

To discuss and propose scheme for Minor an Honor course and its syllabus. To Discuss and propose Certificate courses and value-added courses in 2022-23.

Item No. 3.17

Any other matter with the permission of the Chair.

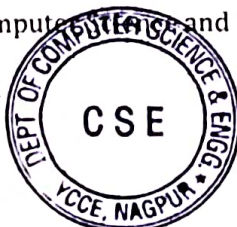
Dr. L.B. Damahe
Chairman

Prof. Rupa A. Fadnavis
Member Secretary

BoS in Computer Science and Engineering

BoS in Computer Science and Engineering

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Approved by:- BoS Chairman

2021-22



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YCCE/CSE/FORMAT/BOS/MOM/3

30/07/2022

Minutes of BOS Meeting

Third Meeting of the Board of Studies in Computer Science & Engineering was held on Saturday, 30/07/2022 at 11 am. in offline mode at Board room Information Technology department.

The meeting was attended by the following members of BoS.

External Members

Sr. No.	Name of Honorable External Member	Position held in BoS	Sign
1	Dr. U. A. Deshpande	External Expert	Bpucce (Recd) U. A. Deshpande
2	Dr. P.S. Deshpande	External Expert	W

BoS Members

Sr. No.	Name of Member	Sign
1	Dr. Lalit Damahe	[Signature]
2	Mrs. R.A. Fadnavis	[Signature]
3	Dr. K.K. Bhoyar	[Signature]
4	Mrs. Bharati Karare	[Signature]
5	Mr. Fazil Sheikh	[Signature]
6	Ms. Renuka Kadu	[Signature]
7	Ms. Ashwini Nagpure	[Signature]
8	Ms. Kalyani Karule	[Signature]
9	Mrs. V.N. Bagade	[Signature]
10	Mrs. P.P. Wagale	[Signature]
11	Mrs. C.A. Tripathi	[Signature]
12	Mrs. A.T. Paul	[Signature]
13	Mrs. S. B. Meshram	[Signature]
14	Ms. R.P. Suryavanshi	[Signature]
15	Mrs. K.R. Kolarkar	[Signature]
16	Mrs. N.P. Giradkar	[Signature]

Leave of Absence was granted to following members:

Sr. No.	Name of Member
1.	Dr. D.A Adane, RTMNU nominee
2.	Mr. Swapnil Deshmukh, External Expert



Department of Computer Science & Engineering

Following are the minutes of the meeting:

Item No. 3.01

Welcome of new members

BoS Chairman Dr. Lalit Damahe welcome all the external and internal members.

Item No. 3.02

Installation of member Secretary

- no change

Item No. 3.03

Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.

Minutes of second BoS meeting were read by Member secretary and approved by the BoS unanimously.

Item No. 3.04

To discuss and suggest the action taken on

- i. Co/PO attainment of subjects taught in previous semester
- ii. Result analysis of subjects taught in previous semester
- iii. Stakeholders feedback on review and design of curriculum
- iv. In Sem, End Sem and Exit feedback on Teaching Learning & curriculum

i) CO/PO attainment of subjects taught in previous semester

The complete process of CO/PO attainment has been discussed with the BoS Experts. The experts appreciated and approved the process of attainment. On the basis of direct and indirect assessment, CO/PO attainment of odd semester courses in 2021-22 was shown to BOS expert members and was approved. It is observed that all PO6, PO7, PO8 and PO11, PSO1 and PSO2 are yet not mapped through subjects upto 4th semester. These POs will be mapped through next semester's courses. Attainment of PO12 is not up to the mark. So efforts will be taken to improve this attainment in future.



Department of Computer Science & Engineering

Program level Course-PO matrix of all courses including first year courses Program
 Articulation Matrix: All courses including first year courses. (Semester 1 to Semester 8)

Name of Program: **Department of Computer Science and Engineering**

	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
		SEMES TER-1	GE-2101 Engineering Mathematics-I	2	2										
	GE-2105 Engineering Physics GE-2106 Engineering Physics Lab.	2.6	2.8												
	GE-2107 Communication Skills									2	2				
	CV-2101 Engineering Mechanics CV-2102 Engineering Mechanics (Lab)	3	2.8						2	2	2	2			
	EE-2101 Basic Electronics	2	2	1											
	IT-2101 Introduction to Computer Programme														
	IT-2102 Introduction to Computer Programme (Lab)	2.5	1.7	2											
SEMES TER-2	GE-2102 Engineering Mathematics-II	2	2	2											
	GE-2103 Engineering Chemistry GE-2104 Engineering Chemistry(Lab)	3	2.3					2.25							
	GE-2108 Social Science						3					3	3		
	EL-2101 Electrical Engineering EL-2102 Electrical Engineering (Lab)	3	1	1	1	1			1	1	1	1	1		
	ME2101 Engineering Graphics Engineering Graphics LAB ME2102	3	2			3				2	3		3		
	ME-2103 Workshop Practice														
SEMES TER-3	GE2201 Engineering Mathematics III	3	3	3											
	CSE2201 Computer Architecture and Organisation	3				1							1		
	CSE2202/CSE2203 Object Oriented Programming	3	2.5	3	3	1				2	1				
	CSE2204/CSE2205 Data Structures I	3	2			2									
	CSE2206 Software Lab-I	3	1	1						2					
SEMES TER-4	Discrete Mathematics & Graph Theory	2	2												
	CSE2251/CSE2252 Operating Systems	2.25	2.5		2										
	CSE2253/CSE2254 Data Structures II	2.5	2.75	3		3									
	CSE2255/CSE2256 Introduction to Data Analysis	3	3		3	3									
	CSE2257 Theory of Computation	1.25	2	2.75	2.5										
	Average	2.6	2.2	2.1	2.3	2.0	3.0	2.3	1.5	1.8	1.8	2.0	2.0		

Evaluation of each PO & PSO

Attainment Parameters A:U	PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12		PSO1		PSO2	
	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A
	Direct	3.00	2.59	2.50	2.28	2.50	2.18	3.00	2.78	1.33	0.83							2.00	1.73	1.00	0.91			1.00	0.45	2.50	2.05	2.00
	86.36%		91.38%		87.25%		92.50%		61.88%								86.25%		91.25%				45.00%		82.08%		90.25%	
Indirect	3.00	2.99	3.00	2.99	3.00	2.99	3.00	2.99	3.00	2.99	3.00	2.99	3.00	2.99	3.00	2.99	3.00	2.99	3.00	2.99	3.00	2.99	3.00	2.99	3.00	2.99	3.00	2.99
	99.67%		99.67%		99.67%		99.67%		99.67%		99.67%		99.67%		99.67%		99.67%		99.67%		99.67%		99.67%		99.67%		99.67%	
Total	3.00	2.67	2.60	2.43	2.60	2.34	3.00	2.82	1.67	1.26	3.00	2.99	3.00	2.99	3.00	2.99	2.20	1.98	1.40	1.33	3.00	2.99	1.40	0.96	1.67	1.42	1.80	1.68
	89.02%		93.29%		90.12%		93.93%		75.48%		99.67%		99.67%		99.67%		89.91%		94.86%		99.67%		68.43%		85.00%		93.33%	



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Department of Computer Science & Engineering

1. Result analysis of subjects taught in previous semester.

The overall and subject wise result analysis of Even Term 2021-22 has been shown to the BoS Experts. Experts appreciated the efforts taken by the faculty for good results.

S.N	Semester	Pass %
1	IV	89.54

As the results of all the semesters are above 80%, No action required to be taken

2. Stake holders feedback on review and design of curriculum –

S.N.	Stakeholder	Feedback	Action Taken
1.	Parent	Industry oriented subject should be there	Mobile programming made to be Industry aligned elective in 5 th semester
2	Faculty	Reunitization of unit I and II to be done in Introduction to data analysis course	Updatons incorporated in the said course syllabus.

3. In Sem, End Sem and Exit feedback on Teaching Learning & curriculum.

All feedback has been discussed with BoS Experts.

Sem	No. of faculty with feedback more than 90%		No. of faculty with feedback more than 80%		No. of faculty with feedback less than 80% and greater than 60%		No. of faculty with feedback less than 60%	
	In Sem	End Sem	In Sem	End Sem	In Sem	End Sem	In Sem	End Sem
IV	6/7	7/7	01/7	-	-	-	-	-

As feedback on teaching learning is above 60%, BoS experts appreciated and asked to maintain the same.

Item No. 3.05

To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2018 & B.Tech 2020) of the Undergraduate and Post graduate programs conducted under the Board. To approve and ratify SoE22 and all syllabi of B.Tech and M.Tech I & II year

SoE B.Tech 2020 :

To rename PE-1 Course - advanced web technologies to web technology

SoE22 was verified by experts . Following suggestions were given :

1. Remove Transforms and Partial Differential Equations instead add Linear algebra or Numerical methods
2. Audit course – Green computing syllabus need modifications or other course that can be added as Open elective are Latex, Yoga or Physical Education.



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3. Database system- I and II syllabus need to be revised design DBMS-I syllabus up to normalization and add topics - query processing, concurrency control, transaction management in DBMS-II Or keep DBMS only as a single subject including all above topics .
4. Move introduction to Data analysis course in 3rd or 4th semester.

Item No. 3.06

To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2018 & B.Tech 2020 Schemes of Undergraduate and Post graduate programs conducted under the Board.

Minor changes in the syllabus of following B.Tech SoE2020 -IV Semester subject are suggested by the expert members:

semester	Course	Suggestions
IV	CSE2255- Introduction to data Analysis	<ul style="list-style-type: none">• Unit 4 should include non parametric methods for hypothesis testing• Add multivariate regression in last unit

Minor changes in the syllabus of following V Semester subject are suggested by the expert members:

semester	Course	Suggestions
V	CSE2301- Database Management Systems	<ul style="list-style-type: none">• Add topic JDBC connectivity
V	CSE2313 - PE I: Web Technologies	<ul style="list-style-type: none">• Add web service implementation topic
V	CSE2331 - OE I: Database System Essentials	<ul style="list-style-type: none">• Includes PL/SQL, NO-SQL concepts
V	CSE2333 - OE I: Programming with Python	<ul style="list-style-type: none">• Add topic " data visualization"

Item No. 3.07

Version-1

Approved By: BoS CSE

2022-23



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Department of Computer Science & Engineering

To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate and Postgraduate Programs.

Minor changes in the books of following subject are suggested by the expert members:

semester	Course
V & VI	CSE2303- Design & Analysis of Algorithms (Algorithm Design by Tardos and Kleinberg) CSE2351- Computer Networks("Computer Networking- A Top down Approach" by KeithW. Ross and Kurose)

Item No. 3.08

To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under-Graduate programs.

SoE B.Tech- 2020 scheme:

semester	Course	Suggestions
V	CSE2302- Lab: Database Management Systems	<ul style="list-style-type: none">Revise practical list
V	CSE2304- Lab: Design & Analysis of Algorithms	<ul style="list-style-type: none">Revise practical list
V	CSE2318 PE I-Lab: Mobile Programming	<ul style="list-style-type: none">Use swift tool for iphone as well as android.Practicals to be based on different (at least 4) design pattern category(like survey form, single form, multiform, sensor based, location based, departmental application)
V	CSE2314 - PE I: Lab: Web Technologies	<ul style="list-style-type: none">Add case study based practicals
VI	CSE2354 - Lab: Compilers	<ul style="list-style-type: none">Revise practical list completely
VI	CSE2362 - PE II: Lab: Image Processing	<ul style="list-style-type: none">Use Raspberry Pi or Arduino (in python)
IV	CSE2256- Lab:	<ul style="list-style-type: none">Include case studies



Department of Computer Science & Engineering

	Introduction to data Analysis	<ul style="list-style-type: none">• Take some practical on integrating R code in Java (input output in java, processing to be done in R)
IV	CSE2206- Lab: Software laboratory	<ul style="list-style-type: none">• Includes practicals based on Importing Packages• circuit designing using python.

Item No. 3.09

To discuss and suggest the changes in the Academic Regulations governing the Undergraduate programs conducted under the Board.-

Item No. 3.10

To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum. - NA

Item No. 3.11

To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of ODD Term 2022-23.

The panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs for End Semester Examination of ODD Term 2022-23 was constituted.

Item No. 3.12

To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of ODD Term 2022-23 - NA

Item No. 3.13

To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG level that will be examined in End Semester Examination ODD Term 2022-23.

The panel of internal and external examiners for the various laboratory courses at UG level for End Semester Examination of ODD Term 2022-23 was constituted.

**Department of Computer Science & Engineering****Item No. 3.14**

Preparation of Electronic question Bank for core UG courses.

List of Courses for which EQB is prepared :

SN	Semester	Course Name
1.	III	CSE2201: Computer Architecture and Organization
2.		CSE2202: Object Oriented Programming
3.		CSE2204: Data structure -I
4.	IV	CSE2255: Introduction to Data Analysis
5.		CSE2251: Operating System
6.		CSE2257: Theory Of Computation

List of Courses for which EQB is to be prepared-

SN	Semester	Course Name
1.	IV	CSE2253: DataStructure 2

Item No. 3.15

To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses- Number of Quizzes to be reduced.

Item No. 3.16

To discuss and propose scheme for Minor an Honor course and its syllabus. Discussed and proposed Certificate courses and value added courses in 2022-23.

Proposed Certificate courses and value added courses in 2022-23

Sr. No.	Sem	Name of Course	Proposed Date
1	Odd	Salesforce Admin	01/10/2022
2		Data Analysis Using Microsoft Excel	05/11/2022
3	Even	Salesforce Development / Certification Course on Amazon Web Services	11/02/2023
4		Introduction to Ethical Hacking / Hands on Animation using Adobe Flash	18/03/2023



Nagar Yuwak Shikshan Sanstha's

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Ph.: 07104-237919, 234623, 329259, 329250 Fax: 07104-232376, Website: www.ycce.edu

Department of Computer Science & Engineering

Item No. 3.17

Any other matter with the permission of the Chair-

Formal Thanks were given to External Experts on behalf of the BoS Chairman, BoS Members and Member Secretary.

The meeting concluded by vote of thanks by chairperson, BoS of Computer Science and Engineering


Prof. Rupa Fadnavis

Member Secretary

BoS in CSE


Dr. L.B. Damahe

Chairman

BoS in CSE





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Department of Computer Science & Engineering





Nagar Yuwak Shikshan Sanstha's
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SoE No.
 CSE-202.1

B.TECH SCHEME OF EXAMINATION 2020-21

(Scheme of Examination w.e.f. 2022-23 onward)

Computer Science & Engineering

SN	Sem	Type	Course Code	Course Name	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
TOTAL FIRST & SECOND SEM										47				
Third Semester														
1	3	BS	GE2201	Engineering Mathematics III	T	3	0	0	3	3	30	20	50	3 Hours
2	3	PC	CSE2201	Computer Architecture and Organisation	T	3	0	0	3	3	30	20	50	3 Hours
3	3	PC	CSE2202	Object Oriented Programming	T	3	0	0	3	3	30	20	50	3 Hours
4	3	PC	CSE2203	Lab: Object Oriented Programming	P	0	0	2	2	1		60	40	
5	3	PC	CSE2204	Data Structures I	T	3	0	0	3	3	30	20	50	3 Hours
6	3	PC	CSE2205	Lab: Data Structures I	P	0	0	2	2	1		60	40	
7	3	PC	CSE2206	Lab: Software Laboratory	P	0	0	2	2	1		60	40	
TOTAL						12	0	6	18	15				

Fourth Semester

1	4	BS	GE2207	Discrete Mathematics & Graph Theory	T	3	0	0	3	3	30	20	50	3 Hours
2	4	PC	CSE2251	Operating Systems	T	3	0	0	3	3	30	20	50	3 Hours
3	4	PC	CSE2252	Lab: Operating Systems	P	0	0	2	2	1		60	40	
4	4	PC	CSE2253	Data Structures II	T	3	0	0	3	3	30	20	50	3 Hours
5	4	PC	CSE2254	Lab: Data Structures II	P	0	0	2	2	1		60	40	
6	4	PC	CSE2255	Introduction to Data Analysis	T	3	0	0	3	3	30	20	50	3 Hours
7	4	PC	CSE2256	Lab: Introduction to Data Analysis	P	0	0	2	2	1		60	40	
8	4	PC	CSE2257	Theory of Computation	T	4	0	0	4	4	30	20	50	3 Hours
TOTAL						16	0	6	22	19				

Audit Courses														
1	4	HS	GE2121	Env Studies for 4 Sem. CV,ME,EE,IT, CSE	T	2	0	0						
2	3	HS	AU2123	YCCE Communication Aptitude Preparation (YCAP3)	A	3	0	0	3	0				
3	4	HS	AU2124	YCCE Communication Aptitude Preparation (YCAP4.1) for CV,ME,CT,IT,CSE	A	3	0	0	3	0				

MSEs* = Two MSEs of 15 Marks each will conducted and marks of these 2 MSEs will be considered for Continuous Assessment

TA ** = for Theory : 5 marks on lecture quizzes, 11 marks on TA2+TA4 activities decided by course teacher, 4 marks on class attendance

TA = for Practical : MSPA will be 15 marks each**

		June 2022	1.01	Applicable for AY 2022-23 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



B.TECH SCHEME OF EXAMINATION 2020-21

(Scheme of Examination w.e.f. 2022-23 onward)

Computer Science & Engineering

SN	Sem	Type	Course Code	Course Name	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Fifth Semester														
1	5	HS	GE2312	Fundamentals of Economics	T	3	0	0	3	3	30	20	50	3 Hours
2	5	PC	CSE2301	Database Management Systems	T	3	0	0	3	3	30	20	50	3 Hours
3	5	PC	CSE2302	Lab: Database Management Systems	P	0	0	2	2	1		60	40	
4	5	PC	CSE2303	Design & Analysis of Algorithms	T	4	0	0	4	4	30	20	50	3 Hours
5	5	PC	CSE2304	Lab: Design & Analysis of Algorithms	P	0	0	2	2	1		60	40	
6	5	PE		Professional Elective-I	T	3	0	0	3	3	30	20	50	3 Hours
7	5	PE		Lab: Professional Elective-I	P	0	0	2	2	1		60	40	
8	5	OE		Open Elective - I *	T	3	0	0	3	3	30	20	50	3 Hours
9	5	OE		Open Elective - II *	T	3	0	0	3	3	30	20	50	3 Hours
10	5/6	STR	CSE2310	Seminar	P	0	0	0	0	1		100		
TOTAL						19	0	6	25	23				

Professional Electives -I

1	5	PE-I	CSE2311	PE I: Business Intelligence
	5	PE-I	CSE2312	PE I: Lab: Business Intelligence
2	5	PE-I	CSE2313	PE I: Web Technologies
	5	PE-I	CSE2314	PE I: Lab: Web Technologies
3	5	PE-I	CSE2315	PE I: Introduction to Geographical Information System
	5	PE-I	CSE2316	PE I: Lab: Introduction to Geographical Information System
4	5	PE-I	CSE2317	PE I: Mobile Operating System
	5	PE-I	CSE2318	PE I: Lab: Mobile Operating System

Open Electives -I

1	5	OE-I	CSE2331	OE I: Database System Essentials
2	5	OE-I	CSE2332	OE I: Introduction to Image Processing
3	5	OE-I	CSE2333	OE I: Programming with Python

Open Electives -II

1	5	OE-II	CSE2341	OE II: Software Testing for Beginners
2	5	OE-II	CSE2342	OE II: Introduction to Cloud Computing
3	5	OE-II	CSE2343	OE II: Introduction to Web Technology

Audit Courses

1	5	HS	AU2126	YCCE Communication Aptitude Preparation (YCAP5.1) for CV,ME,CT,IT,CSE	A	3	0	0	3	0				
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MSEs* = Two MSEs of 15 Marks each will conducted and marks of these 2 MSEs will be considered for Continuous Assessment

TA = for Theory : 5 marks on lecture quizzes, 11 marks on TA2+TA4 activities decided by course teacher, 4 marks on class attendance**

TA = for Practical : MSPA will be 15 marks each**

		June 2022	1.01	Applicable for AY 2022-23 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering
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B.TECH SCHEME OF EXAMINATION 2020-21
 (Scheme of Examination w.e.f. 2022-23 onward)

SoE No.
CSE-202.1

Computer Science & Engineering

SN	Sem	Type	Course Code	Course Name	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Sixth Semester														
1	6	HS	GE2311	Fundamentals of Management	T	3	0	0	3	3	30	20	50	3 Hours
2	6	PC	CSE2351	Computer Networks	T	3	0	0	3	3	30	20	50	3 Hours
3	6	PC	CSE2352	Lab: Computer Networks	P	0	0	2	2	1		60	40	
4	6	PC	CSE2353	Compilers	T	3	0	0	3	3	30	20	50	3 Hours
5	6	PC	CSE2354	Lab: Compilers	P	0	0	2	2	1		60	40	
6	6	PC	CSE2355	Software Engineering	T	3	0	0	3	3	30	20	50	3 Hours
7	6	PC	CSE2356	Lab: Software Engineering	P	0	0	2	2	1		60	40	
8	6	PE		Professional Elective-II	T	3	0	0	3	3	30	20	50	3 Hours
9	6	PE		Lab: Professional Elective-II	P	0	0	2	2	1		60	40	
10	6	OE		Open Elective - III **	T	3	0	0	3	3	30	20	50	3 Hours
11	6	OE		Open Elective - IV **	T	3	0	0	3	3	30	20	50	3 Hours
TOTAL						21	0	8	29	25				

Professional Electives -II

1	6	PE-II	CSE2361	PE II: Digital Image Processing
	6	PE-II	CSE2362	PE II: Lab:Digital Image Processing
2	6	PE-II	CSE2363	PE II: Internet of Things
	6	PE-II	CSE2364	PE II: Lab: Internet of Things
3	6	PE-II	CSE2365	PE II: Neural Network and applications
	6	PE-II	CSE2366	PE II: Lab Neural Network and applications

Open Electives -III

1	6	OE-III	CSE2371	OE III: Database System Essentials
2	6	OE-III	CSE2372	OE III: Introduction to Image Processing
3	6	OE-III	CSE2373	OE III: Programming with Python

Open Electives -IV

1	6	OE-IV	CSE2381	OE IV: Software Testing for Beginners
2	6	OE-IV	CSE2382	OE IV: Introduction to Cloud Computing
3	6	OE-IV	CSE2383	OE IV: Introduction to Web Technology

Audit Courses

1	6	HS	AU2130	YCCE Communication Aptitude Preparation (YCAP6.3) for CT, IT, CSE	A	3	0	0	3	0				
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		June 2022	1.01	Applicable for AY 2022-23 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering
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SoE No.
 CSE-202.1

B.TECH SCHEME OF EXAMINATION 2020-21

(Scheme of Examination w.e.f. 2022-23 onward)

Computer Science & Engineering

SN	Sem	Type	Course Code	Course Name	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Seventh Semester														
1	7	PC	CSE2401	Artificial Intelligence	T	3	0	0	3	3	30	20	50	3 Hours
2	7	PC	CSE2402	Lab: Artificial Intelligence	P	0	0	2	2	1		60	40	
3	7	PC	CSE2403	Cryptography and Network Security	T	3	0	0	3	3	30	20	50	3 Hours
4	7	PE		Professional Elective-III	T	3	0	0	3	3	30	20	50	3 Hours
5	7	PE		Professional Elective-IV	T	3	0	0	3	3	30	20	50	3 Hours
6	7	PE		Lab:Professional Elective-IV	P	0	0	2	2	1		60	40	
7	7	PE		Professional Elective-V	T	3	0	0	3	3	30	20	50	3 Hours
8	7	STR	CSE2409	Mini Project	P	0	0	4	4	2		100		
9	7	STR	CSE2410	CRT	P	0	0	0	0	2		100		
TOTAL						15	0	8	23	21				

Professional Electives -III

1	7	PE-III	CSE2411	PE III:Software Project Management
2	7	PE-III	CSE2412	PE III: Adhoc Wireless Network
3	7	PE-III	CSE2413	PE III: Information Retrieval System
4	7	PE-III	CSE2414	PE III: Natural Language Processing

Professional Electives -IV

1	7	PE-IV	CSE2421	PE IV: Cyber Forensic
	7	PE-IV	CSE2422	PE IV: Lab: Cyber Forensic
2	7	PE-IV	CSE2423	PE IV: Machine Learning Techniques
	7	PE-IV	CSE2424	PE IV: Lab: Machine Learning Techniques
3	7	PE-IV	CSE2425	PE IV: Parallel Programming
	7	PE-IV	CSE2426	PE IV: Lab Parallel Programming
4	7	PE-IV	CSE2427	PE IV : Data Mining & Data Warehousing
	7	PE-IV	CSE2428	PE IV : Lab. Data Mining & Data Warehousing

Professional Electives -V

1	7	PE-V	CSE2441	PE V: Cloud Computing
2	7	PE-V	CSE2442	PE V: Distributed System
3	7	PE-V	CSE2443	PE V: Human Computer Interaction
4	7	PE-V	CSE2444	PE V: Real Time System

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TA = for Practical : MSPA will be 15 marks each**

		June 2022	1.01	Applicable for AY 2022-23 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering
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B.TECH SCHEME OF EXAMINATION 2020-21
(Scheme of Examination w.e.f. 2022-23 onward)

SoE No.
CSE-202.1

Computer Science & Engineering

SN	Sem	Type	Course Code	Course Name	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Eighth Semester														
1	8	STR	CSE2451	Major Project	P	0	0	12	12	9		60	40	
2	8	STR	CSE2452	Extra Curricular Activity Evaluation	P	0	0	0	0	1		100		
TOTAL						0	0	12	12	10				
GRAND TOTAL						83	0	46	129	160				

MSEs* = Two MSEs of 15 Marks each will conducted and marks of these 2 MSEs will be considered for Continuous Assessment

TA ** = for Theory : 5 marks on lecture quizzes, 11 marks on TA2+TA4 activities decided by course teacher, 4 marks on class attendance

TA = for Practical : MSPA will be 15 marks each**

		June 2022	1.01	Applicable for AY 2022-23 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



Nagar Yashwantrao Chavan College of Engineering
(An Autonomous Institute affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
M. Tech. SCHEME OF EXAMINATION 2018-19
Structural Engineering

SN	Sem	Sub Code	Subject	T/P	Contact Hours				Credit	% Weightage				ESE Duration Hours
					L	T	P	Hrs		MSE-I	MSE-II	TA	ESE	
I SEMESTER														
1	1	CV2901	Numerical Methods	T	3	0	0	3	3	15	15	10	60	3
2	1	CV2902	Theory of Elasticity and Elastic Stability	T	3	0	0	3	3	15	15	10	60	3
3	1	CV2903	Structural Dynamics	T	3	0	0	3	3	15	15	10	60	3
4	1	CV2904	Lab: Structural Dynamics	P	0	0	2	2	1	-	-	40	60	-
5	1	CV2905	Matrix Analysis of Structures	T	3	0	0	3	3	15	15	10	60	3
6	1	CV2906	Lab: Matrix Analysis of Structures	P	0	0	2	2	1	-	-	40	60	-
7	1	CV2907	Design of Substructures & Foundations	T	3	0	0	3	3	15	15	10	60	3
8	1	CV2908	Research Practice	P	0	0	2	2	1	-	-	40	60	-
Total						15	0	6	21	18				

II SEMESTER														
1	2	CV2911	Finite Element Method	T	3	0	0	3	3	15	15	10	60	3
	2	CV2912	Lab: Finite Element Method	P	0	0	2	2	1	-	-	40	60	-
2	2	CV2913	Theory of Plates and Shells	T	3	0	0	3	3	15	15	10	60	3
3	2	CV2914	Earthquake and wind effects on Structures	T	3	0	0	3	3	15	15	10	60	3
4	2	CV2915	Advanced Concrete Structures	T	3	0	0	3	3	15	15	10	60	3
5	2		Professional Elective -I	T	3	0	0	3	3	15	15	10	60	3
6	2	CV2919	Lab: RCC Design Studio	P	0	0	2	2	1	-	-	40	60	-
7	2	CV2920	Seminar		0	0	2	2	1	-	-	100		-
Total						15	0	6	21	18				

List of Professional Elective -I

2	CV2916	PE I: New Engineering Materials
2	CV2917	PE I: Prestressed Concrete
2	CV2918	PE I: Smart Structures and Applications

III SEMESTER														
1	3	CV2931	Advanced Steel Structures	T	3	0	0	3	3	15	15	10	60	4
2	3	CV2932	Lab: Steel Design Studio	P	0	0	2	2	1	-	-	40	60	-
3	3		Professional Elective -II	T	3	0	0	3	3	15	15	10	60	3
4	3		Professional Elective -III	T	3	0	0	3	3	15	15	10	60	3
5	3	CV2939	Project Phase-I	P	0	0	12	12	6	-	-	100		-
Total						9	0	14	23	16				

List of Professional Elective -II

3	CV2933	PE II: Tall Building
3	CV2934	PE II: Composite Structures
3	CV2935	PE II: Bridge Engineering

List of Professional Elective -III

3	CV2936	PE III: Plastic Analysis and Design of Structures
3	CV2937	PE III: Seismic Analysis and Design of Structures
3	CV2938	PE III: Design of Industrial Structures

IV SEMESTER														
1	4	CV2940	Project Phase-II		0	0	20	20	10			40	60	
Total						0	0	20	20	10				
Total Credits										62				

		June 20 18	1.00	Applicable for Sem 1 & 2 AY 20 18-19 & Sem 3 & 4 AY 2019-20 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



Major Yuva Shiksha Sanstha's
Yashwantrao Chavan College of Engineering
 (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
M. Tech. SCHEME OF EXAMINATION 2018-19
Environmental Engineering

SN	Sem	Sub Code	Subject	T/P	Contact Hours				Credits	%Weightage				ESE Duration Hours
					L	T	P	hrs		MSE-I	MSE-II	TA	ESE	
I SEM ESTER														
1	1	GE2301	Statistical and Computational Methods	T	3	0	0	3	3	15	15	10	60	3
2	1	CV2961	Environmental Chemistry and Microbiology	T	3	0	0	3	3	15	15	10	60	3
3	1	CV2962	Lab. Environmental Chemistry and Microbiology	P	0	0	2	2	1			40	60	
4	1	CV2963	Water Supply and Waste Water Collection System	T	3	0	0	3	3	15	15	10	60	3
5	1	CV2964	Lab. - Water Supply and Waste Water Collection System	P	0	0	2	2	1			40	60	
6	1	CV2965	Municipal Water Treatment	T	3	0	0	3	3	15	15	10	60	3
7	1	CV2966	Municipal Waste Water Treatment and Disposal	T	3	0	0	3	3	15	15	10	60	3
Total					15	0	4	15	17					

II SEM ESTER														
1	2	CV2971	Industrial Waste Water Treatment and Disposal	T	3	0	0	3	3	15	15	10	60	3
2	2	CV2972	Environmental Management	T	3	0	0	3	3	15	15	10	60	3
3	2	CV2973	Air Pollution and its Control	T	3	0	0	3	3	15	15	10	60	3
4	2	CV2974	Municipal Solid Waste Management	T	3	0	0	3	3	15	15	10	60	3
5	2		Professional Elective-I	T	3	0	0	3	3	15	15	10	60	3
6	2	CV2978	Seminar	P	0	0	2	2	1			100		
Total					15	0	2	17	16					

List of Professional Elective-I

2	CV2975	PE I: Hazardous Waste Management
2	CV2976	PE I: Water Resource Management
2	CV2977	PE I: Advanced Water Treatment

III SEM ESTER														
	3		Professional Elective-II	T	3	0	0	3	3	15	15	10	60	3
	3		Professional Elective-II	T	3	0	0	3	3	15	15	10	60	3
	3	CV2969	Project Phase - I	P	0	0	14	14	8			100		
Total					6	0	14	20	14					

List of Professional Elective-II

3	CV2961	PE II: Rural Water Supply and Sanitation
3	CV2962	PE II: Environmental Biotechnology
3	CV2963	PE II: Application of Remote Sensing & GIS in Environmental Engineering

List of Professional Elective-III

3	CV2965	PE III: Energy Conversion and Environment
3	CV2967	PE III: Environmental Optimization and Modeling
3	CV2968	PE III: Water Reuse and Recycling

IV SEMESTER														
1	4	CV2990	Project Phase-II	P	0	0	20	20	20			40	60	
Total					0	0	20	20	20					
Total Credits									67					

		June 2018	1.00	Applicable for Sem 1 & 2 AY 2018-19 & Sem 3 & 4 AY 2019-20 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



M. Tech. SCHEME OF EXAMINATION 2018-19

CAD / CAM

SN	Sem	Sub Code	Subject	T/P	Contact Hours			Credits	% Weightage				ESE Duration Hours	
					L	T	P		Hrs	MSE-I	MSE-II	TA		ESE
I SEMESTER														
1	1	ME2901	Stress Analysis	T	3	0	0	3	3	15	15	10	60	3
2	1	ME2902	Computer Integrated Manufacturing	T	3	0	0	3	3	15	15	10	60	3
3	1		Professional Elective- I	T	3	0	0	3	3	15	15	10	60	3
4	1	ME2907	Computer Graphics and Solid Modeling	T	3	0	0	3	3	15	15	10	60	3
5	1	ME2908	Lab: Computer Graphics and Solid Modeling	P	0	0	2	2	1	40			60	
6	1	ME2909	CNC Technologies	T	3	0	0	3	3	15	15	10	60	3
7	1	ME2910	Lab: CNC Technologies	P	0	0	2	2	1	40			60	
Total					15	0	4	19	17					

List of Professional Electives-I

1	ME2903	PE I: Project Engineering
1	ME2904	PE I: Tool Design
1	ME2905	PE I: Object Oriented Programmings
1	ME2906	PE I: Reliability Engineering

II SEMESTER

1	2	ME2911	Robotics	T	3	0	0	3	3	15	15	10	60	3
2	2	ME2912	Modelling & Simulation	T	3	0	0	3	3	15	15	10	60	3
3	2	ME2913	Finite Element Method	T	3	0	0	3	3	15	15	10	60	3
4	2	ME2914	Lab: Finite Element Method	P	0	0	2	2	1	40			60	
5	2	ME2915	Artificial Intelligence	T	3	0	0	3	3	15	15	10	60	3
6	2		Professional Elective-II	T	3	0	0	3	3	15	15	10	60	3
7	2	ME2920	Seminar	P	0	0	2	2	1	100				
Total					15	0	4	19	17					

List of Professional Electives-II

2	ME2916	PE II: Product Data Management
2	ME2917	PE II: Mechatronics
2	ME2918	PE II: Machine Tool Design
2	ME2919	PE II: Plant Design

III SEMESTER

1	3	ME2931	Product Design & Development	T	3	0	0	3	3	15	15	10	60	3
2	3		Professional Elective - III	T	3	0	0	3	3	15	15	10	60	3
3	3	ME2939	Project Phase -I	P	0	0	16	16	8	100				
Total					6	0	16	22	14					

List of Professional Electives-III

3	ME2932	PE III: Computational Fluid Dynamics
3	ME2933	PE III: Design Optimization Techniques
3	ME2934	PE III: Rapid Prototyping
3	ME2935	PE III: Design for Manufacturing and Assembly

IV SEMESTER

1	4	ME2940	Project Phase-II	P	0	0	24	24	12	40			60	
Total					0	0	24	24	12					
Grand Total of Credits									60					

		June 2018	1.00	Applicable for Sem 1 & 2 AY 2018-19 & Sem 3 & 4 AY 2019-20 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering
 (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
M. Tech. SCHEME OF EXAMINATION 2018-19
Integrated Power Systems

SN	Sem	Sub Code	Subject	T/P	Contact Hours				Credits	% Weightage				ESE Duration Hours
					L	T	P	Hrs		MSE-I	MSE-II	TA	ESE	
I SEMESTER														
1	1	EL2901	Advanced Power Electronics	T	3	0	0	3	3	15	15	10	60	3
8	1	EL2902	Lab: Advance Power Electronics	P	0	0	4	4	2			40	60	
2	1	EL2903	Analog & Digital Protection	T	3	0	0	3	3	15	15	10	60	3
6	1	EL2904	Lab: Analog & Digital Protection	P	0	0	4	4	2			40	60	
3	1	EL2905	Digital Control System	T	3	0	0	3	3	15	15	10	60	3
4	1	EL2906	HVDC Power Transmission	T	3	0	0	3	3	15	15	10	60	3
5	1	EL2907	Power System Modelling	T	3	0	0	3	3	15	15	10	60	3
Total					15	0	8	23	19					

II SEMESTER														
1	2	EL2911	Power System planning	T	3	0	0	3	3	15	15	10	60	3
2	2	EL2912	Application of Power Electronics to Power System	T	3	0	0	3	3	15	15	10	60	3
3	2	EL2913	Power Quality	T	3	0	0	3	3	15	15	10	60	3
4	2		Professional Elective- I	T	3	0	0	3	3	15	15	10	60	3
5	2		Lab: Professional Elective I	P	0	0	4	4	2			40	60	
6	2		Professional Elective II	T	3	0	0	3	3	15	15	10	60	3
7	2	EL2921	Power System Simulation	P	0	0	4	4	2			40	60	
Total					15	0	8	23	19					

List of Professional Electives-I

2	EL2914	PE I: Electrical Drives and Controls
2	EL2915	PE I: Lab: Electrical Drives and Controls
2	EL2916	PE I: Renewable Energy System
2	EL2917	PE I: Lab: Renewable Energy System

List of Professional Electives-II

2	EL2918	PE II: Advanced Digital Signal Processing
2	EL2919	PE II: EHV Power Transmission
2	EL2920	PE II: Restructuring of Power System

III SEMESTER

1	3		Professional Elective - III	T	3	0	0	3	3	15	15	10	60	3
2	3		Professional Elective - IV	T	3	0	0	3	3	15	15	10	60	3
3	3	EL2938	Lab.: Power System Design	P	0	0	4	4	2			40	60	
4	3	EL2939	Project Phase-I	P	0	0	16		8			100		
Total					6	0	20	10	16					

List of Professional Electives-III

3	EL2931	Power System Stability
3	EL2932	Electrical Distribution Systems
3	EL2933	Power System Operation and Control
3	EL2934	Transients in Power Systems

List of Professional Electives-IV

3	EL2935	Distributed Automation
3	EL2936	Power Electronics for Renewable Energy Systems
3	EL2937	Control System Design

IV SEMESTER

1	4	EL2940	Project Phase-II	P	0	0	20	24	12			40	60	
Total					0	0	20	24	12					
Grand Total of Credits									66					

		June 2018	1.00	Applicable for Sem 1 & 2 AY 2018-19 & Sem 3 & 4 AY 2019-20 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



M. Tech. SCHEME OF EXAMINATION 2018-19
Electronics Engineering

SN	Sem	Sub Code	Subject	T/P	Contact				Credits	% Weightage				ESE Duration
					L	T	P	Hrs		MSE-I	MSE-II	TA	ESE	
I SEMESTER														
1	1	EE2901	Advanced Digital Signal Processing	T	3	0	0	3	3	15	15	10	60	3
6	1	EE2902	Lab: Advanced Digital Signal Processing	P	0	0	2	2	1			40	60	
2	1	EE2903	Digital IC Design	T	3	0	0	3	3	15	15	10	60	3
7	1	EE2904	Lab: Digital IC Design	P	0	0	2	2	1			40	60	
3	1	EE2905	RISC & DSP Processor Architecture	T	3	0	0	3	3	15	15	10	60	3
4	1	EE2906	Advanced Digital System Design	T	3	0	0	3	3	15	15	10	60	3
8	1	EE2907	Lab: Advanced Digital System Design	P	0	0	2	2	1			40	60	
5	1	EE2908	Advanced Communication Systems	T	3	0	0	3	3	15	15	10	60	3
Total						15	0	6	21					18

II SEMESTER														
1	2	EE2911	RF Circuit Design	T	3	0	0	3	3	15	15	10	60	3
2	2	EE2912	Lab: RF Circuit Design	P	0	0	2	2	1			40	60	
3	2	EE2913	Soft Computing Techniques	T	3	0	0	3	3	15	15	10	60	3
4	2	EE2914	Digital Image Processing	T	3	0	0	3	3	15	15	10	60	3
5	2	EE2915	Lab : Digital Image Processing	P	0	0	2	2	1			40	60	
6	2	Professional Elective- I		T	3	0	0	3	3	15	15	10	60	3
7	2	Professional Elective- II		T	3	0	0	3	3	15	15	10	60	3
8	2	EE2922	Seminar	P	0	0	2	2	1			100		
Total						15	0	6	21					18

List of Professional Electives-I

2	EE2916	PE I: Analog IC Design
2	EE2917	PE I: Multirate signal Processing
2	EE2918	PE I: Low Power CMOS VLSI Design

List of Professional Electives-II

2	EE2919	PE II: Wireless Communication
2	EE2920	PE II: VLSI Signal Processing
2	EE2921	PE II: Verification & testing of VLSI Circuit

III SEMESTER

1	3	Professional Elective- III		T	3	0	0	3	3	15	15	10	60	3
2	3	Professional Elective- IV		T	3	0	0	3	3	15	15	10	60	3
3	3	EE2939	Project Phase - I	P	0	0	16	16	8			100		
Total						6	0	16	22					14

List of Professional Electives-III

3	EE2931	PE III :Wireless Sensor
3	EE2932	PE III :Biomedical Instrumentation
3	EE2933	PE III :Mixed signal VLSI Design
3	EE2934	PE III :Cryptography & Network Security

List of Professional Electives-IV

3	EE2935	PE IV :Adaptive Signal Processing
3	EE2936	PE IV :Embedded System & RTOS
3	EE2937	PE IV :Advanced Computer Architecture
3	EE2938	PE IV :Pattern recognition

IV SEMESTER

1		EE2940	Project Phase - II	P	0	0	24	24	12			40	60	
Total						0	0	24	24					12
Grand Total of Credits									62					

		June 2018	1.00	Applicable for Sem 1 & 2 AY 2018-19 & Sem 3 & 4 AY 2019-20 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering
 (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
M. Tech. SCHEME OF EXAMINATION 2018-19
Communication Engineering

SN	Sem	Sub Code	Subject	T/P	Contact				Credits	% Weightage				ESE Duration
					L	T	P	Hrs		MSE-I	MSE-II	TA	ESE	
I SEMESTER														
1	1	ET2901	Mathematical Foundations for Communication Engineering	T	3	0	0	3	3	15	15	10	60	3
2	1	ET2902	Passive RF Circuits & Systems	T	3	0	0	3	3	15	15	10	60	3
3	1	ET2903	Lab: Passive RF Circuits & Systems	P	0	0	2	2	1			40	60	
4	1	ET2904	Advanced Digital Communication	T	3	0	0	3	3	15	15	10	60	3
5	1	ET2905	Lab: Advanced Digital Communication	P	0	0	2	2	1			40	60	
6	1	ET2906	Adaptive Signal Processing	T	3	0	0	3	3	15	15	10	60	3
7	1	ET2907	Lab: Adaptive Signal Processing	P	0	0	2	2	1			40	60	
8	1		Professional Elective-I	T	3	0	0	3	3	15	15	10	60	3
Total					15	0	6	21	18					

List of Professional Electives-I

1	ET2908	PE I: Error Control Coding
1	ET2909	PE I: Embedded Systems & DSP Processor
1	ET2910	PE I: Pattern Recognition

II SEMESTER

1	2	ET2911	Advanced Antenna Theory	T	3	0	0	3	3	15	15	10	60	3
2	2	ET2912	Lab: Advanced Antenna Theory	P	0	0	2	2	1			40	60	
3	2	ET2913	VLSI Signal Processing	T	3	0	0	3	3	15	15	10	60	3
4	2	ET2914	Digital Image processing	T	3	0	0	3	3	15	15	10	60	3
5	2	ET2915	Lab: Digital Image processing	P	0	0	2	2	1			40	60	
6	2	ET2916	Wireless Communications & Networks	T	3	0	0	3	3	15	15	10	60	3
7	2		Professional Elective -II	T	3	0	0	3	3	15	15	10	60	3
8	2	ET2921	Seminar	P	0	0	2	2	1			100		
Total					15	0	6	21	18					

List of Professional Electives-II

2	ET2917	PE II: Selected Topics in Communication Systems
2	ET2918	PE II: Speech Processing
2	ET2919	PE II: Detection & Estimation Theory
2	ET2920	PE II: Real Time Operating System

III SEMESTER

1	3		Professional Elective- III	T	3	0	0	3	3	15	15	10	60	3
2	3		Professional Elective-IV	T	3	0	0	3	3	15	15	10	60	3
3	3	ET2937	Project Phase-I	P	0	0	16	16	8			100		
Total					6	0	16	22	14					

List of Professional Electives-III

3	ET2931	PE III: Multimedia Communications
3	ET2932	PE III: Active RF Devices and Circuits
3	ET2933	PE III: Soft Computing

List of Professional Electives-IV

3	ET2934	PE IV: High Speed Networks
3	ET2935	PE IV: Wireless Sensor Networks
3	ET2936	PE IV: Micro Electro Mechanical Systems

IV SEMESTER

1	4	ET2940	Project Phase-II	P	0	0	24	24	12			40	60	
Total					0	0	24	24	12					
Grand Total of Credits									62					

		June 2018	1.00	Applicable for Sem 1 & 2 AY 2018-19 & Sem 3 & 4 AY 2019-20 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering
 (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
M. Tech. SCHEME OF EXAMINATION 2018-19
Computer Science Engineering

SN	Sem	Sub Code	Subject	T/P	Contact Hours				Credits	% Weightage				ESE Duration Hours
					L	T	P	Hrs		MSE-I	MSE-II	TA	ESE	
I SEMESTER														
1	1	CSE2901	High Performance Computer Architecture	T	3	0	0	3	3	15	15	10	60	3
2	1	CSE2902	Real Time Systems	T	3	0	0	3	3	15	15	10	60	3
3	1	CSE2903	Network Security & Cryptography	T	3	0	0	3	3	15	15	10	60	3
4	1	CSE2904	Lab: Network Security & Cryptography	P	0	0	2	2	1			40	60	
5	1	CSE2905	Algorithm Design Techniques	T	3	0	0	3	3	15	15	10	60	3
6	1	CSE2906	Lab: Algorithm Design Techniques	P	0	0	2	2	1			40	60	
7	1		Professional Elective-I	T	3	0	0	3	3	15	15	10	60	3
8	1	CSE2911	Software Lab 1	P	0	0	2	2	2			40	60	
Total						15	0	6	21	19				

List of Professional Electives-I

1	CSE2907	PE I: Advanced Digital Image Processing
1	CSE2908	PE I: Ethical Hacking
1	CSE2909	PE I: Machine Learning
1	CSE2910	PE I: Grid and Cloud Computing

II SEMESTER

1	2	CSE2912	Data Mining	T	3	0	0	3	3	15	15	10	60	3
2	2	CSE2913	Distributed Systems	T	3	0	0	3	3	15	15	10	60	3
3	2	CSE2914	Optimizing Compilers	T	3	0	0	3	3	15	15	10	60	3
4	2	CSE2915	Lab: Optimizing Compilers	P	0	0	2	2	1			40	60	
5	2	CSE2916	Software Architecture	T	3	0	0	3	3	15	15	10	60	3
6	2	BSE2918	Seminar (Technical Writing and Publishing)	P	8	8	2	2	1			100	60	1
8	2		Professional Elective-II	T	3	0	0	3	3	15	15	10	60	3
9	2	CSE2923	Software Lab 2	P	0	0	2	2	2			40	60	
Total						15	0	8	23	20				

List of Professional Electives-II

2	CSE2919	PE II: Soft Computing Techniques
2	CSE2920	PE II: Data Warehousing
2	CSE2921	PE II: Wireless Sensor Network
2	CSE2922	PE II: Information Retrieval Systems

III SEMESTER

1	3		Professional Elective-III	T	3	0	0	3	3	15	15	10	60	3
2	3		Professional Elective-IV	T	3	0	0	3	3	15	15	10	60	3
3	3	CSE2939	Project Phase - I	P	0	0	16	16	8		100			
Total						6	0	16	22	14				

List of Professional Electives-III

3	CSE2931	PE III: Computer Vision
3	CSE2932	PE III: Natural Language Processing
3	CSE2933	PE III: Optimization Techniques
3	CSE2934	PE III: Database Security

List of Professional Electives-IV

3	CSE2935	PE IV: Cyber Forensics
3	CSE2936	PE IV: Pattern Recognition
3	CSE2937	PE IV: Algorithms for Bioinformatics
3	CSE2938	PE IV: Semantic Web and Social Networks

IV SEMESTER

1	4	CSE2940	Project Phase - II	P	0	0	24	24	12			40	60	
Total						0	0	24	24	12				
Grand Total of Credits									65					

		June 2018	1.00	Applicable for Sem 1 & 2 AY 2018-19 & Sem 3 & 4 AY 2019-20 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	

Dean (Acad.)
 Yeshwantrao Chavan
 College of Engineering
 Wansongli Hingna Road
 NAGPUR - 441 110



PRINCIPAL
 Yeshwantrao Chavan
 College of Engineering
 Wansongli Hingna Road
 NAGPUR - 441110



Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering
 (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
M. Tech. SCHEME OF EXAMINATION 2020
 Deptt. of Civil Engineering
 (Structural Engineering)

SoE No.
PG-301

Sl. No.	Sem	Course Code	Course Title	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours		
					L	T	P	Total Contact Hrs.		MSEs*	TA**	ESE			
I SEMESTER															
1	1	CV3901	Theory of Elasticity and Elastic Stability	T	3	0	0	3	3	30	30	40	3		
2	1	CV3902	Structural Dynamics	T	3	0	0	3	3	30	30	40	3		
3	1	CV3903	Lab: Structural Dynamics	P	0	0	2	2	1	-	60	40	-		
4	1	CV3904	Matrix Analysis of Structures	T	3	0	0	3	3	30	30	40	3		
5	1	CV3905	Lab: Matrix Analysis of Structures	P	0	0	2	2	1	-	60	40	-		
6	1	CV3906	Design of Substructures & Foundations	T	3	0	0	3	3	30	30	40	3		
7	1	CV3907	Earthquake and wind effects on Structures	T	3	0	0	3	3	30	30	40	3		
8	1	CV3908	Advanced Concrete Structures	T	3	0	0	3	3	30	30	40	3		
9	1	CV3909	Lab: RCC Design Studio	P	0	0	2	2	1	-	60	40	-		
Total					18	0	6	24	21						
II SEMESTER															
1	2	CV3915	Finite Element Method	T	3	0	0	3	3	30	30	40	3		
2	2	CV3916	Lab: Finite Element Method	P	0	0	2	2	1	-	60	40	-		
3	2	CV3917	Theory of Plates and Shells	T	3	0	0	3	3	30	30	40	3		
4	2	CV3918	Advanced Steel Structures	T	3	0	0	3	3	30	30	40	4		
5	2	CV3919	Lab: Steel Design Studio	P	0	0	2	2	1	-	60	40	-		
6	2		Professional Elective-I	T	3	0	0	3	3	30	30	40	3		
7	2		Professional Elective-II	T	3	0	0	3	3	30	30	40	3		
8	2		Professional Elective-III	T	3	0	0	3	3	30	30	40	3		
Total					18	0	4	22	20						
Professional Elective - I															
1	2	CV3920	PE I: New Engineering Materials												
2	2	CV3921	PE I: Prestressed Concrete												
3	2	CV3922	PE I: Smart Structures and Applications												
Professional Elective - II															
1	2	CV3923	PE II: RC Tall Buildings												
2	2	CV3924	PE II: Composite Structures												
3	2	CV3925	PE II: RC Bridge Design												
Professional Elective - III															
1	2	CV3926	PE III: Plastic Analysis and Design of Structures												
2	2	CV3927	PE III: Seismic Analysis and Design of Structures												
3	2	CV3928	PE III: Design of Industrial Structures												
III SEMESTER															
1	3	CV3939	Project Phase-I	P	0	0	16	16	8	-	100	-	-		
Total					0	0	16	16	8						
IV SEMESTER															
1	4	CV3940	Project Phase-II	P	0	0	24	24	12	-	60	40	-		
Total					0	0	24	24	12						
Total Credits									61						
<p>MSEs* = Three MSEs of 15 Marks each will conducted and marks of better 2 of these 3 MSEs will be considered for Continuous Assessment</p> <p>TA ** = for Theory : 20 marks on lecture quizzes, 8 marks on assignments, 2 marks on class performance</p> <p>TA** = for Practical : MSPA will be 15 marks each</p>															
								Jan-20		1.00		Applicable for Sem 1 & 2 AY 2020-21 & Sem 3 & 4 AY 2021-22 Onwards			
Chairperson				Dean (Acad. Matters)				Date of Release		Version					



Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering
 (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
M. Tech. SCHEME OF EXAMINATION 2020
Deptt. of Civil Engineering
(Environmental Engineering)

SoE No.
PG-301

Sl. No.	Sem	Course Code	Course Title	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
					L	T	P	Total Contact		MSEs*	TA**	ESE	
I SEMESTER													
1	1	CV3961	Environmental Chemistry and Microbiology	T	3	0	0	3	3	30	30	40	3
2	1	CV3962	Lab : Environmental Chemistry and Microbiology	P	0	0	2	2	1	-	60	40	-
3	1	CV3963	Water Supply and Waste Water Collection System	T	3	0	0	3	3	30	30	40	3
4	1	CV3964	Lab : Water Supply and Waste Water Collection System	P	0	0	2	2	1	-	60	40	-
5	1	CV3965	Municipal Water Treatment	T	3	0	0	3	3	30	30	40	3
6	1	CV3966	Municipal Solid Waste Management	T	3	0	0	3	3	30	30	40	3
7	1	CV3967	Municipal Waste Water Treatment	T	3	0	0	3	3	30	30	40	3
Total						15	0	4	19	17			
II SEMESTER													
1	2	CV3975	Industrial Waste Water Treatment and Reuse	T	3	0	0	3	3	30	30	40	3
2	2	CV3976	Environmental Management	T	3	0	0	3	3	30	30	40	3
3	2	CV3977	Air Quality Management	T	3	0	0	3	3	30	30	40	3
4	2	CV3978	Rural Water Supply and Sanitation	T	3	0	0	3	3	30	30	40	3
5	2		Professional Elective-I	T	3	0	0	3	3	30	30	40	3
6	2		Professional Elective-II	T	3	0	0	3	3	30	30	40	3
7	2	CV3986	Seminar	P	0	0	2	2	1	-	100	-	-
Total						18	0	2	20	19			
Professional Elective - I													
1	2	CV3979	PE I: Hazardous Waste Management										
2	2	CV3980	PE I: Water Resource Management										
3	2	CV3981	PE I: Environmental Biotechnology										
4	2	CV3982	PE I: Advanced Water Treatment										
Professional Elective - II													
1	2	CV3983	PE II: Energy Conversion and Environment										
2	2	CV3984	PE II: Applied Structure										
3	2	CV3985	PE II: Water Reuse and Recycling										
III SEMESTER													
1	3	CV3989	Project Phase - I	P	0	0	16	16	8	-	100	-	-
Total						0	0	16	16	8			
IV SEMESTER													
1	4	CV3990	Project Phase-II	P	0	0	24	24	12	-	60	40	-
Total						0	0	24	24	12			
Total Credits									56				
<p>MSEs* = Three MSEs of 15 Marks each will conducted and marks of better 2 of these 3 MSEs will be considered for Continuous Assessment</p> <p>TA ** = for Theory : 20 marks on lecture quizzes, 8 marks on assignments, 2 marks on class performance</p> <p>TA** = for Practical : MSPA will be 15 marks each</p>													
				Jan-20		1.00		Applicable for Sem 1 & 2 AY 2020-21 & Sem 3 & 4 AY 2021-22 Onwards					
Chairperson		Dean (Acad. Matters)		Date of Release		Version							



Nagar Yuwak Shikshan Sansha's
Yeshwantrao Chavan College of Engineering
 (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
M. Tech. SCHEME OF EXAMINATION 2020
Deptt. of Electronics & Telecommunication
(Communication Engineering)

SoE No.
PG-301

Sl. No.	Sem	Course Code	Course Title	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
					L	T	P	Total Contact Hrs.		MSEs*	TA**	ESE	
I SEMESTER													
1	1	ET3901	Mathematical Foundations for Communication Engineering	T	3	0	0	3	3	30	30	40	3
2	1	ET3902	Passive RF Circuits & Systems	T	3	0	0	3	3	30	30	40	3
3	1	ET3903	Lab: Passive RF Circuits & Systems	P	0	0	2	2	1	60		40	
4	1	ET3904	Advanced Digital Communication	T	3	0	0	3	3	30	30	40	3
5	1	ET3905	Lab: Advanced Digital Communication	P	0	0	2	2	1	60		40	
6	1	ET3906	Adaptive Signal Processing	T	3	0	0	3	3	30	30	40	3
7	1	ET3907	Lab: Adaptive Signal Processing	P	0	0	2	2	1	60		40	
8	1		Professional Elective- I	T	3	0	0	3	3	30	30	40	3
9	1		Professional Elective- II	T	3	0	0	3	3	30	30	40	3
Total					18	0	6	24	21				
List of Professional Electives-I													
1		ET3908	PE I: Error Control Coding										
1		ET3909	PE I: Embedded Systems & DSP Processor										
1		ET3910	PE I: Pattern Recognition										
List of Professional Electives-II													
1		ET3911	PE II: Multimedia Communications										
1		ET3912	PE II: Active RF Devices and Circuits										
1		ET3913	PE II: Soft Computing										
II SEMESTER													
1	2	ET3915	Advanced Antenna Theory	T	3	0	0	3	3	30	30	40	3
2	2	ET3916	Lab: Advanced Antenna Theory	P	0	0	2	2	1	60		40	
3	2	ET3917	VLSI Signal Processing	T	3	0	0	3	3	30	30	40	3
4	2	ET3918	Digital Image processing	T	3	0	0	3	3	30	30	40	3
5	2	ET3919	Lab: Digital Image processing	P	0	0	2	2	1	60		40	
6	2	ET3920	Wireless Communications & Networks	T	3	0	0	3	3	30	30	40	3
7	2		Professional Elective -III	T	3	0	0	3	3	30	30	40	3
8	2		Professional Elective -IV	T	3	0	0	3	3	30	30	40	3
9	2	ET3928	Seminar	P	0	0	2	2	1	100			
Total					18	0	6	24	21				
List of Professional Electives-III													
2		ET3921	PE III: Selected Topics in Communication Systems										
2		ET3922	PE III: Speech Processing										
2		ET3923	PE III: Detection & Estimation Theory										
2		ET3924	PE III: Real Time Operating System										
List of Professional Electives-IV													
2		ET3925	PE IV: High Speed Networks										
2		ET3926	PE IV: Wireless Sensor Networks										
2		ET3927	PE IV: Micro Electro Mechanical Systems										
III SEMESTER													
1	3	ET3939	Project Phase-I	P	0	0	16	16	8	100			
Total					0	0	16	16	8				
IV SEMESTER													
1	4	ET3940	Project Phase-II	P	0	0	24	24	12	60		40	
Total					0	0	24	24	12				
Total of Credits									62				
<p>MSEs* = Three MSEs of 15 Marks each will conducted and marks of better 2 of these 3 MSEs will be considered for Continuous Assessment</p> <p>TA ** = for Theory : 20 marks on lecture quizzes, 8 marks on assignments, 2 marks on class performance</p> <p>TA** = for Practical : MSPA will be 15 marks each</p>													
						Jan,20		1.00		Applicable for Sem 1 & 2 AY 2020-21 & Sem 3 & 4 AY 2021-22 Onwards			
Chairperson		Dean (Acad. Matters)		Date of Release		Version							



M. Tech. SCHEME OF EXAMINATION 2020
Department of Electrical Engineering
Integrated Power Systems (IPS)

Sl. No.	Sem	Course Code	Course Title	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours	
					L	T	P	Total Contact Hrs.		MSEs*	TA**	ESE		
I SEMESTER														
1	1	EL3901	Advanced Power Electronics	T	3	0	0	3	3	30	30	40	3	
2	1	EL3902	Lab: Advance Power Electronics	P	0	0	4	4	2	60	40			
3	1	EL3903	Analog & Digital Protection	T	3	0	0	3	3	30	30	40	3	
4	1	EL3904	Lab: Analog & Digital Protection	P	0	0	4	4	2	60	40			
5	1	EL3905	Digital Control System	T	3	0	0	3	3	30	30	40	3	
6	1	EL3906	HVDC Power Transmission	T	3	0	0	3	3	30	30	40	3	
7	1	EL3907	Power System Modelling	T	3	0	0	3	3	30	30	40	3	
8	1		Professional Elective - I	T	3	0	0	3	3	30	30	40	3	
9	1		Lab: Professional Elective I	P	0	0	4	4	2	60	40			
Total					18	0	12	30	24					
List of Professional Electives-I														
EL3914	PE I: Electrical Drives and Controls													
EL3915	PE I: Lab: Electrical Drives and Controls													
EL3916	PE I: Renewable Energy System													
EL3917	PE I: Lab: Renewable Energy System													
II SEMESTER														
1	2	EL3911	Power System Planning	T	3	0	0	3	3	30	30	40	3	
2	2	EL3912	Application of Power Electronics to Power System	T	3	0	0	3	3	30	30	40	3	
3	2	EL3913	Power Quality	T	3	0	0	3	3	30	30	40	3	
4	2		Professional Elective II	T	3	0	0	3	3	30	30	40	3	
5	2		Professional Elective - III	T	3	0	0	3	3	30	30	40	3	
6	2		Professional Elective - IV	T	3	0	0	3	3	30	30	40	3	
7	2	EL3921	Lab: Power System Simulation	L	0	0	4	4	2	60	40			
8	2	EL3938	Lab.: Power System Design		0	0	4	4	2	60	40			
Total					18	0	8	26	22					
Professional Elective II														
EL3918	PE II: Advanced Digital Signal Processing													
EL3919	PE II: EHV Power Transmission													
EL3920	PE II: Restructuring of Power System													
Professional Elective - III														
EL3931	Power System Stability													
EL3932	Electrical Distribution Systems													
EL3933	Power System Operation and Control													
EL3934	Transients in Power Systems													
Professional Elective - IV														
EL3935	Distributed Automation													
EL3936	Power Electronics for Renewable Energy Systems													
EL3937	Control System Design													
III SEMESTER														
1	3	EL3939	Project Phase -I		0	0	16	16	8		100			
Total					0	0	16	16	8					
IV SEMESTER														
1	4	EL3940	Project Phase-II		0	0	24	24	12		60	40		
Total					0	0	20	24	12					
Total of Credits									66					
MSEs* = Three MSEs of 15 Marks each will conducted and marks of better 2 of these 3 MSEs will be considered for Continuous Assessment														
8 marks on assignments, 2 marks on class performance														
ISPA will be 15 marks each														
						Jan,20			1.00			Applicable for Sem 1 & 2 AY 2020-21 & Sem 3 & 4 AY 2021-22 Onwards		
Chairperson			Dean (Acad. Matters)			Date of Release			Version					



Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering
 (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
M. Tech. SCHEME OF EXAMINATION 2020
Department of Mechanical Engineering
(CAD / CAM)

SoE No.
PG-301

Sl. No.	Sem	Course Code	Course Title	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hrs.	
					L	T	P	Total Contact Hrs.		MSEs*	TA**	ESE		
I SEMESTER														
1	1	ME3901	Stress Analysis	T	3	0	0	3	3	30	30	40	3	
2	1	ME3902	Computer Integrated Manufacturing	T	3	0	0	3	3	30	30	40	3	
3	1	Professional Elective- I		T	3	0	0	3	3	30	30	40	3	
		ME3907	Project Engineering											
		ME3908	Tool Design											
		ME3909	Object Oriented Programmings											
		ME3910	Reliability Engineering											
4	1	ME3903	Computer Graphics and Solid Modeling	T	3	0	0	3	3	30	30	40	3	
5	1	ME3904	Lab: Computer Graphics and Solid Modeling	P	0	0	2	2	1	60		40		
6	1	ME3905	CNC Technologies	T	3	0	0	3	3	30	30	40	3	
7	1	ME3906	Lab: CNC Technologies	P	0	0	2	2	1	60		40		
8	1	ME3921	Product Design & Development	T	3	0	0	3	3	30	30	40	3	
					18	0	4	22	20					
II SEMESTER														
1	2	ME3911	Robotics	T	3	0	0	3	3	30	30	40	3	
2	2	ME3912	Modelling & Simulation	T	3	0	0	3	3	60	30	40	3	
3	2	ME3913	Finite Element Method	T	3	0	0	3	3	60	30	40	3	
4	2	ME3914	Lab: Finite Element Method	P	0	0	2	2	1	60		40		
5	2	ME3915	Artificial Intelligence	T	3	0	0	3	3	60	30	40	3	
6	2	Professional Elective-II		T	3	0	0	3	3	30	30	40	3	
		ME3917	Product Data Management											
		ME3918	Mechatronics											
		ME3919	Machine Tool Design											
		ME3920	Plant Design											
7	2	ME3916	Seminar		0	0	2	2	1	100				
8	2	Professional Elective - III		T	3	0	0	3	3	30	30	40	3	
		ME3923	Computational Fluid Dynamics											
		ME3924	Design Optimization Techniques											
		ME3925	Rapid Prototyping											
		ME3926	Design for Manufacturing and Assembly											
					18	0	4	22	20					
III SEMESTER														
1	3	ME3922	Project Phase -I		0	0	16	16	8	100				
					0	0	16	16	8					
IV SEMESTER														
1	4	ME3931	Project Phase-II		0	0	24	24	12	60		40		
					0	0	24	24	12					
Total of Credits									60					
<p>MSEs* = Three MSEs of 15 Marks each will conducted and marks of better 2 of these 3 MSEs will be considered for Continuous Assessment</p> <p>TA ** = for Theory : 20 marks on lecture quizzes, 8 marks on assignments, 2 marks on class performance</p> <p>TA** = for Practical : MSPA will be 15 marks each</p>														
						Jan,20			1.00			Applicable for Sem 1 & 2 AY 2020-21 & Sem 3 & 4 AY 2021-22 Onwards		
Chairperson			Dean (Acad. Matters)			Date of Release			Version					



M. Tech. SCHEME OF EXAMINATION 2020
Department of Computer Technology
(Computer Science and Engineering)

Sl. No.	Sem	Course Code	Course Title	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hrs.
					L	T	P	Total Contact Hrs.		MSEs*	TA**	ESE	
I SEMESTER													
1	1	CSE3901	High Performance Computer Architecture	T	3	0	0	3	3	30	30	40	3
2	1	CSE3902	Real Time Systems	T	3	0	0	3	3	30	30	40	3
3	1	CSE3903	Network Security & Cryptography	T	3	0	0	3	3	30	30	40	3
4	1	CSE3904	Lab: Network Security & Cryptography	P	0	0	2	2	1	60		40	
5	1	CSE3905	Algorithm Design Techniques	T	3	0	0	3	3	30	30	40	3
6	1	CSE3906	Lab: Algorithm Design Techniques	P	0	0	2	2	1	60		40	
7	1		Professional Elective-I	T	3	0	0	3	3	30	30	40	3
8	1		Professional Elective- II	T	3	0	0	3	3	30	30	40	3
9	1	CSE3915	Software Lab 1	P	0	0	2	2	2	60		40	
Total						18	0	6	24	22			
List of Professional Electives-I													
1	1	CSE3907	PE I: Advanced Digital Image Processing										
2	1	CSE3908	PE I: Ethical Hacking										
3	1	CSE3909	PE I: Machine Learning										
4	1	CSE3910	PE I: Grid and Cloud Computing										
List of Professional Elective- II													
1	1	CSE3911	PE II: Soft Computing Techniques										
2	1	CSE3912	PE II: Natural Language Processing										
3	1	CSE3913	PE II: Optimization Techniques										
4	1	CSE3914	PE II: Wireless Sensor Network										
II SEMESTER													
1	2	CSE3916	Data Mining	T	3	0	0	3	3	30	30	40	3
2	2	CSE3917	Distributed Systems	T	3	0	0	3	3	30	30	40	3
3	2	CSE3918	Optimizing Compilers	T	3	0	0	3	3	30	30	40	3
4	2	CSE3919	Lab: Optimizing Compilers	P	0	0	2	2	1	60		40	
5	2	CSE3920	Software Architecture	T	3	0	0	3	3	30	30	40	3
6	2	CSE3921	Lab: Software Architecture	P	0	0	2	2	1	60		40	
7	2	CSE3922	Seminar (Technical Writing and Publishing)	P	0	0	2	2	1		100		1
8	2		Professional Elective-III	T	3	0	0	3	3	30	30	40	3
9	2		Professional Elective-IV	T	3	0	0	3	3	30	30	40	3
10	2	CSE3931	Software Lab 2	P	0	0	2	2	2	60		40	
Total						18	0	8	26	23			
List of Professional Electives-III													
1	2	CSE3923	PE III: Computer Vision										
2	2	CSE3924	PE III: Data Warehousing										
3	2	CSE3925	PE III: Research Methodology & Statistics										
4	2	CSE3926	PE III: Information Retrieval Systems										
List of Professional Elective- IV													
1	2	CSE3927	PE IV: Cyber Forensics										
2	2	CSE3928	PE IV: Deep Learning										
3	2	CSE3929	PE IV: Fundamentals of Bioinformatics										
4	2	CSE3930	PE IV: Semantic Web and Social Networks										
III SEMESTER													
1	3	CSE3939	Project Phase-I			0	0	16	16	8	100		
Total						0	0	16	16	8			
IV SEMESTER													
1	4	CSE3940	Project Phase-II			0	0	24	24	12	60	40	
Total						0	0	24	24	12			
Total of Credits									65				
<p>MSEs* = Three MSEs of 15 Marks each will conducted and marks of better 2 of these 3 MSEs will be considered for Continuous Assessment</p> <p>TA ** = for Theory : 20 marks on lecture quizzes, 8 marks on assignments, 2 marks on class performance</p> <p>TA** = for Practical : MSPA will be 15 marks each</p>													
Chairperson			Dean (Acad. Matters)			Date of Release			Version			Applicable for Sem 1 & 2 AY 2020-21 & Sem 3 & 4 AY 2021-22 Onwards	

[Signature]
Dean (Acad)
Yeshwantrao Chavan
College of Engineering
Wanadongri, Hingna Road
NAGPUR - 441 110



[Signature]
PRINCIPAL
Yeshwantrao Chavan
College of Engineering
Wanadongri, Hingna Road
NAGPUR - 441110

First Year



Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering Nagpur
(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
Hingna Road, Wanadongri, Nagpur-441 110
NAAC Accredited with 'A++' Grade

OFFICE OF FIRST YEAR COORDINATOR

Date: 9.02.2023

NOTICE

A meeting of Board of Studies (General Engineering) is scheduled on 4th February 2023 at 11.00 am. All Experts and faculty members are requested to attend this meeting. The agenda of meeting is mentioned as below.

Agenda Points are

Agenda No. 26.01

Welcome of new members

Agenda No. 26.02

Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.

Agenda No. 26.03

To discuss and suggest the action taken on

- i) CO/PO attainment of subjects taught in previous semester.
- ii) Result analysis of subjects taught in previous semester.
- iii) Stake holder's feedback on review and design of curriculum.
- iv) In Sem, End Sem and Exit feedback on Teaching Learning & curriculum.

Agenda No. 26.04

To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2018 & B.Tech 2022) of the Undergraduate programs conducted under the Board. To approve and ratify SoE22 and all syllabi of B.Tech I & II year.

Agenda No. 26.05

To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2018 & B.Tech 2022 Schemes of Undergraduate conducted under the Board.

Agenda No. 26.06

To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate Programs.

Agenda No. 26.07

To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under-Graduate programs.

Agenda No. 26.08

To discuss and suggest the changes in the Academic Regulations governing the undergraduate programs conducted under the Board.

Agenda No. 26.09

To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.

Agenda No.26.10

To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will examine in End Semester Examination of Odd Term/Even Term 2022-23.

Agenda No. 26.11

To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG levels that will examine in End Semester Examination Odd/Even Term 2022-23.

Agenda No. 26.12

Preparation of Electronic question Bank UG courses according to B.Tech SoE 2020 & 2022
To review solutions to all questions of Electronic Question Banks for all courses

Agenda No. 26.13

To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses.

Agenda No. 26.14

To discuss and propose scheme for Minor an Honor course and its syllabus. To Discuss and propose Certificate courses and value-added courses in Even Term 2022-23.

Agenda No. 26.15

Any other matter with the permission of the Chair.

Dr. Anushree Aserkar
Member Secretary- Bard of Studies
(General Engineering)
Department of Applied Mathematics and Humanities

Dr. Manjusha P. Gandhi
Chairman-Bard of Studies
(General Engineering), First Year Coordinator
Department of Applied Mathematics and Humanities

Members Board of Studies (General Engineering)

Sr. No	Name	Mobile No	E-mail
1	Dr.(Mrs.)M.P.Gandhi\ Charman	9421780188	manjusha_g2@rediffmail.com
2	Dr. Anushree A. Aserkar,Member Secretary	9970400690	aserkar_aaa@rediffmail.com
3	Dr. G.P.Singh, HoD, Maths Deptt., VNIT, Nagpur	9423684625 0712-2801356, 2801403 (O); 0712-2801386 (R)	gps.math2015@gmail.com
4	Dr. Anupama Kumar, HoD, Chemistry Deptt., VNIT, Nagpur	9422146480	anupamakumar@chm.vnit.ac.in drkumaranupama21@gmail.com
5	University nominee Dr. Vijay Tangde, Assistant Professor, Dept of Chemistry, RTM Nagpur University, Nagpur	9545112555	vijaytn6@gmail.com
6	Dr. S.S. Bagchi Dy. General Manager Reliance Power, Butibori, Nagpur Expert from Industry	9423416889/ 9372933666	surjyotibagchi@relianceada.com ssbagchi@rediffmail.com
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24	Prof. Madhumita Dhote	9823213271	dhote.madhumita@gmail.com
25	Prof.Swati Ingole	8080281165	swati25061986@gmail.com
26	Prof.Sheela Bhivgade	8805196490	Sheela14gade@gmail.com
27	Prof. Monali Dubey	8766765809	monalidubey123@gmail.com

28	Prof. Rahul Tiwari	7972395862	rajulktiwari12898@gmail.com
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37	Dr. P. U. Waghe	9823142770	prajaktawaghe@gmail.com
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44	Prof. Pournima Pande	9422440249	pournimapande@yahoo.co.in
45	Dr. G.S. Deshmukh	9970755041	gauri.d2007@gmail.com
46	\Prof. Pragati Asawale	9975469876	Pragatee.aditya@gmail.com

Board of Studies: General Engineering

Minutes of 26th Board of Studies Meeting in General Engineering: 4th February 2023

The 26th BoS meeting of General Engineering Board was held on 4th February 2023, Saturday at 11.00 a.m. The meeting was organized offline. Total 42 members were present for the meeting. All the external experts: Dr. G.P. Singh-Head, Department of Mathematics, VNIT, Nagpur, Dr. Anupama Kumar--Head, Department of, Chemistry, VNIT, Nagpur, University nominee-Dr. Vijay Tangde, Dept of Chemistry, RTM Nagpur University, Nagpur, Industry expert-Dr. S.S. Bagchi, Dy. General Manager, Reliance Power, Butibori, Nagpur, were attended the meeting.

The following members were present during the meeting:

1	Dr.Manjusha P.Gandhi	20	Dr. Anushree Aserkar
2	Prof.(Mrs.) M.S.Dani	21	Prof. Rahul Tiwari
3	Dr. Arti Ghogre	22	Dr.Mrs.H.V. Ganvir
4	Dr.Malabika Adak	23	Dr. Vikrant Ganvir
5	Dr.A.J.Meshram	24	Dr.Arsala Khan
6	Prof.Asfar Siddiqui	25	Dr. Swati A. Fartode
7	Prof. Monali G.Dhote	26	Dr. Bharati Patil
8	Dr.Nitin Wange	27	Dr. Manisha Upasani
9	Prof.D.P.Bawane	28	Tejaswini M. Jaulkar
10	Prof.M.N.Dandale	29	Dr. P. U. Waghe
11	Prof.N.A.Bhosale	30	Prof. Shruti Gomkale
12	Prof. Purva Khot	31	Prof.S.S.Panditkar
13	Prof.Arvinde Kour Mehta	32	Dr.Ramesh Surose
14	Dr.A.D.Gedam	33	Ms.Megha Mediretta
15	Prof. Nanada Thakre	34	Prof. Y A. Pourkar

16	Prof. P.Dhenge	35	Dr. M. S. Sawangikar
17	Prof. Madhumita Dhote	36	Prof. Pournima Pande
18	Prof.Swati Ingole	37	Dr. G.S. Deshmukh
19	Prof. Monali Dubey	38	Prof. Pragati Asawale

Following members are permitted for leave of absence

- 1) Dr.Meenal Kale
- 2) Prof. Vishakha Bhandarkar.
- 3) Dr.Deepti Jamkar
- 4) Prof.Sheela Bhivgade

Agenda No. 26.01

Welcome of new members

The meeting began with the welcome of new members Prof. Madhumita Dhote(Humanities), Prof.Swati Ingole(Humanities), Prof.Sheela Bhivgade(Humanities), Prof. Monali Dubey(Humanities), Prof. Rahul Tiwari(humanities), Prof. Pragati Asawale(Chemistry).

Agenda No. 26.02

Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.

The minutes of previous meeting no. 25th held on Saturday 30th July 2022 were already circulated to all members. The ATR of previous meeting have been discussed with BoS members. Minutes of previous meeting were confirmed.

Agenda No. 26.03

To discuss and suggest the action taken on

- i) **CO/PO attainment of subjects taught in previous semester is in progress.**
- ii) **Result analysis of subjects taught in previous semester.**

Result Analysis of Semester II: GE(Group-A)

Pass Students	78.63%
Passed with SGPA<6.75	15.29%
Passed with SGPA>=6.75 and <8.25	51.94%
Passed with SGPA>=8.25	32.77%

Result Analysis of Semester II: GE(Group-B)

Pass Students	74.16%
Passed with SGPA<6.75	18.05%
Passed with SGPA>=6.75 and <8.25	51.63%
Passed with SGPA>=8.25	30.33%

Result Analysis of Semester II: AIDS(Dept. of CT)

Pass Students	89.39%
Passed with SGPA<6.75	13.56%
Passed with SGPA>=6.75 and <8.25	61.02%
Passed with SGPA>=8.25	25.42%

Result Analysis of Semester II: AIML(Dept. of CSE)

Pass Students	95.45%
Passed with SGPA<6.75	15.87%
Passed with SGPA>=6.75 and <8.25	55.56%
Passed with SGPA>=8.25	28.57%

Result Analysis of Semester II: IIoT

Pass Students	90.32%
Passed with SGPA<6.75	17.86%
Passed with SGPA>=6.75 and <8.25	58.93%
Passed with SGPA>=8.25	23.21%

Result Analysis of Semester II: CSD

Pass Students	91.18%
Passed with SGPA<6.75	13.56%
Passed with SGPA>=6.75 and <8.25	62.90%
Passed with SGPA>=8.25	24.19%

iii) Stake holder's feedback on review and design of curriculum.

S.N.	Stakeholder	Feedback	Action Taken
1.	Parent	The number of teaching hours are engaged appropriately but students do not get sufficient time for learning	Informed to Dean academic matters
2	Faculty	Shuffling of units is required in the course Differential Equation and Complex Analysis	Will be incorporated in the said syllabus.

iv) **In Sem, End Sem and Exit feedback on Teaching Learning & curriculum.**

Sem	Faculty with feedback more than 90%		Faculty with feedback 80-90%		Faculty with feedback less than 80% and greater than 60%		Faculty with feedback less than 60%	
	In Sem	End Sem	In Sem	End Sem	In Sem	End Sem	In Sem	End Sem
I	51.57%	65.59%	46.31%	34.40%	2.1%	--	-	-

Agenda No. 26.04

To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2018 & B.Tech 2022) of the Undergraduate programs conducted under the Board. To approve and ratify SoE22 and all syllabi of B.Tech I & II year.

The discussion was held on changes in the Scheme of Examination (known as Autonomous 2018 & B.Tech 2022) of the Undergraduate programs. The SoE and syllabi are approved by all members.

Agenda No. 26.05

To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2018 & B.Tech 2022 Schemes of Undergraduate conducted under the Board.

Reshuffling of units is required in course “Differential Equation and Complex Analysis” in SoE 2022..

Agenda No. 26.06

To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate Programs.

The discussion was held on changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate Programs .The changes in books are not required in currently implemented courses

Agenda No. 26.07

To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under-Graduate programs.

The list of experiments as per new syllabi, was approved by members in 25th BoS meeting.

Agenda No. 26.08

To discuss and suggest the changes in the Academic Regulations governing the undergraduate programs conducted under the Board.

The Academic Regulations were accepted by the members with no suggestions.

Agenda No. 26.09

To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.

MOOCs courses were not proposed in meeting.

Agenda No.26.10

To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will examine in End Semester Examination of Odd Term/Even Term 2022-23.

HoD's have submitted the names of the faculty for question paper setting, moderation and evaluation, for odd and even semester examination 2022-23 to the chairman General Engineering.

Agenda No. 26.11

To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG levels that will examine in End Semester Examination Odd/Even Term 2022-23.

HoD's shall submit the panel of internal and external examiners for the various laboratory and other non-theory courses at UG levels that will be examined in End Semester Examination Odd/Even Term 2022-23 to to the chairman General Engineering

Agenda No. 26.12

**Preparation of Electronic question Bank UG courses according to B.Tech SoE 2022
To review solutions to all questions of Electronic Question Banks for all courses**

E-question answer bank of all Courses up to first semester are updated according to SoE 2022. Experts have suggested to frame more real life and application based problems.

Agenda No. 26.13

To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses.

The BoS members have suggested to continue with the existing evaluation process for theory and other courses but the level of questions must be set as per level of the students. 10% marks must be allotted for very difficult level questions.

Agenda No. 26.14

To discuss and propose scheme for Minor an Honor course and its syllabus. To Discuss and propose Certificate courses and value-added courses in Even Term 2022-23.

Minor Programmes- No new Minor program was proposed in meeting.

Agenda No. 26.15

Any other matter with the permission of the Chair

The meeting ended with the vote of thanks.

Dr. Anushree Aserkar
Member Secretary- Bard of Studies
(General Engineering)
Department of Applied Mathematics and Humanities

Dr. Manjusha P. Gandhi
Chairman-Bard of Studies
(General Engineering), First Year Coordinator
Department of Applied Mathematics and Humanities

MoM Academic Council



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Minutes of 29th meeting of Academic Council held on

Saturday the 25th February, 2023

The 29th meeting of Academic Council was held on **Saturday** the **25th February, 2023** at 11.00 am in the Board Room of YCCE, Nagpur. The following members attended the meeting.

1	Dr. U.P. Waghe, Principal & Chairman	14	Dr. Mrs. M.A. Adak, HoD Mathematics and Humanities
2	Prof. Dr. N.C. Sivaprakash IISc., Bangalore	15	Dr. Mrs. H.V. Ganvir, HoD Physics
3	Dr.P.D. Pachpor Professor, Deptt. of Civil Engineering, SRCOEM, Ramdeo Tekdi, Gittikhadan, Nagpur	16	Dr. Mrs. P.U. Waghe, HoD, Chemistry
4	Shri Amol Deshpande, Sr. Manager - HR, Mahindra & Mahindra Ltd., Mumbai	17	Dr. S.V. Prayagi, Registrar, YCCE
5	Dr. S.P. Raut HoD, Civil Engineering	18	Dr. Arvind Bhagatpatil, Dean (P D)
6	Dr. J.P. Giri HoD, Mechanical Engineering	19	Prof. D.R. Raut, CoE, YCCE,
7	Dr. S.G. Kadwane, HoD , Electrical Engineering	20	Dr. Ms. U.H. Gawande, Dean (R&D)
8	Dr. Pravin Zode, Asstt. HoD Electronics Engineering	21	Dr. Mrs. G.M. Dhopavkar Dean (T&P)
9	Dr. M.S. Narlawar, HoD, Electronics & Telecommunication Engineering	22	Prof. Aniket P. Munshi, Dean (SA)
10	Dr. Lalit Damahe HoD CSE	23	Dr. Manali Kshirsagar, Director Technical & Advisor, YCCE
11	Dr. Mrs. R.D. Wajgi, HoD Computer Technology	24	Dr. S.S. Choudhary, Dean OBE
12	Dr. R.C. Dharmik, HoD, Information Technology	25	Mr. Niraj Wakhare, TPO, YCCE, Nagpur
13	Dr. Mrs. Manjusha P. Gandhi, Chairman, BoS GE & FYC	26	Dr. Mrs. S.V. Rathkantiwar, Dean (IRO), YCCE, Nagpur.
		27	Dr. A.V. Patil, Dean (Acad. Mat.) & Member Secretary



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Leave of Absence granted to			
1	Dr. S.A. Dhale. Principal, Priyadarshini College of Engineering, Digdoh Hills, CRPF Hills, Nagpur	3	Shri Swapnil Shukla, Senior Talent Partner (APAC Region) GitHub (Microsoft), Hyderabad.
2	Dr. Sanjay Kelo Principal, Nararjuna Insitute of Engineering, & Technology & Management, Satnavari, Amravati Road, Nagpur	4	Shri Urvish Pandey Lead - Campus Recruitment & University Relations, Mastercard India, Pune-M.S.

Item 29.01: Welcome of new members

The Chairman of the Academic Council, Dr. U.P. Waghe welcomed the members of the Academic Council

Item 29.02 To confirm the Minutes of 28th Meeting of the Academic Council

The Academic Council unanimously approved the minutes of 28th meeting of Academic Council held on 27th August, 2022.

The Academic Council also unanimously approved the ATR of 28th meeting of Academic Council.

Item 29.03 To discuss and approve the suggestions of Board of Studies for changes in Schemes of Examination and course contents of Autonomous 2018 / 2020 scheme for UG and PG Programs

The Chairpersons of various Boards of Studies presented the minutes of the meetings to Academic Council.

The changes proposed by various boards regarding the syllabi of the courses of "Autonomous 2018/2020" scheme are as below :-

- ❖ **The minor changes in the course contents suggested by the BoS for UG/PG programmes**

Branch	SoE	Sem	Course Code & Name
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Civil Engg.	2020	7	CV2401- Estimating & Costing (The sequence of the units in syllabus need to change.) 1. Building estimate should be shifted and added in Unit II from unit V. 2. Unit IV Earthwork should be shifted in unit III. 3. Specifications & rate analysis of Unit II should be added unit IV. 4. Tender Conditions of Contract should be added in Unit V. 5. Valuation from Unit III should be shifted to Unit VI,
	2020	7	CV2434 PE -V Advanced Steel Design Gantry Girder should be added in Unit II (Moment resistant Connection should be deleted from unit II)
Electrical Engg.	2020	6	PEI: Grid Integration of Renewable Energy
	2020	6	PEI: Switched Mode Power Supply
	2020	7	PEII: Micro Grid
	2020	7	PEIII: Converters and Configurations of Renewable Energy Systems
	2020	7	PEIII: Distributed Generation in power System
	2020	7	PEIV: Industrial Safety
Electronic & Telecom. Engg.	2020	6	ET2254 - Analog Communication Remove the topics TV Fundamentals and digital satellite television.
	2020	7	ET 2443- PE VI: Microwave Integrated circuits Split unit 2 in two units and merge unit 5 and unit 6 to make one unit
Computer Technology	2020	7	Syllabus of Advanced Data Structures, DBMS, Web Technology, Computer Architecture and Organization, Computer Network should be revised
Information Technology	2020	6	<ul style="list-style-type: none"> • Machine Learning course shift to 6th semester as core course • Principles of Artificial Intelligence course shift to 7th semester
	2020		Introduction to Data Science Add topics on Analysis of Variance (ANOVA) Explanation, Formula, and Application. Case Study based on Exploratory Data Analytics
Computer Science & Engg.	2020	4	AIML2256– Design Analysis and Algorithms 4 Credits can be given
	2020	6	CSE2553: Compiler 4 credits can be given
	2020	6	Make Internet of things and Web Technology Courses to be Industry Aligned Take Offline Classes/ labs for Industry aligned course -Mobile Operating system
General Engg.	2022	1	Reshuffling of units is required in course “Differential Equation and Complex Analysis” in SoE 2022.



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❖ **The changes in the Books suggested by the BoS as below**

Branch	SoE	Course Code & Name
Computer Science & Engg.	2020	V CSE & IV CSE(AIML) CSE2302/AIML2259- Lab: Database Management System ("SQL & PL / SQL for Oracle 11g Black Book" as a Reference book) VI - CSE2365-Lab:Neural Network and Application -Add Reference book for Practical- "Deep learning with python" by Francois Chollet

❖ **The changes in the laboratory Courses suggested by the BoS as below**

Branch	SoE	Course Code & Name
Electronic Engg.	2020	EE2402 Digital system design lab.
ETC	2020	ET 2255- lab Analog Communication
Computer Technology	2020	Add one Practical on Protocol Design (SNMP) in Computer Network
Computer Science & Engg.	2020	V - CSE2302– Lab: Database Management Systems IV - AIML2259- Database Management System • Add Practicals based on Multiple Queries VI - CSE2551:Computer Network • Minor Changes in Practical List VI- CSE2361-Lab: PE-II Digital Image Processing • Implement 1-2 Practicals in Python • Add practicals based on applications on CCTV data VI-CSE2363-Lab: Internet Of Things • Add practicals on creating Sensors based applications like gas sensors, ph sensors ,etc.

❖ **Following new courses/MOOCs courses are suggested by BoS for students for the session 2023-24.**

Branch	CourseName
Civil Engg.	Professional Elective -II offered through Coursera, "Construction Management "conducted by Columbia University, US, to first 20 bright students of VI semester.
Electrical Engg.	Professional Elective I: Programming in C for beginners (6 th Semester) to be added was suggested by Mr. B. S. Sudame



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A.C. approved changes in course contents and changes in the text/reference books, laboratory and MOOC Courses for the courses mentioned above. These changes will be incorporated with immediate effect.

Item 29.04 To discuss and approve the outcomes of Feedback & result analysis suggested by BoS and ATR

The Academic Council suggested that the CO/PO attainment shall be presented in BoS meeting and discussed in A.C. meeting in a specific format as provided by Dean (OBE) at the end of academic year. Subject to following corrections Academic council approved the outcomes of Feedback & result analysis suggested by BoS and its ATR.

- The Academic Council suggested to increase the value of minimum acceptable feedback of faculty from 60% to 65%.
- Include the feedback of Industry in the BoS MoM
- The T&P department should collect the feedback of employer at the time of placement and handover to respective department.
- Academic council suggested that follow the uniform format to represent the faculty feedback.
- Academic council suggested to change the nomenclature of AI and Machine learning related courses in the respective BoS as we have the course elements of AIML at first year level.

Item 29.05 To discuss and approve the Scheme of Examination Autonomous 2022 scheme for UG and PG Programs

DAM presented 1st to Final year SoE 2022 and sample syllabus of First semester to Fourth semester to Academic Council.

Academic Council approved Scheme of Examination 2022 (SoE 2022) as proposed and discussed and started being implemented w.e.f. A.Y. 2022-23 onwards for first to Final year UG and PG programmes.



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Item 29.06 To discuss and finalize the changes, if any, in Academic Regulations

Following agenda points were put up by Academic Council for approval.

- 1) Withdrawal of Summer Term
- 2) Detention policy of YCCE
- 3) Final Semester Project of M Tech (Extension)
- 4) Modification of Scheme of Evaluation of YCCE w.e.f. AY 2022-23
- 5) Special Mentoring Scheme & Make Up Examination for detained students.

Academic Council unanimously approved the changes of Academic Regulations & Principal Direction.

Item 29.07 To discuss and approve the report of Controller of Examinations for Odd Term 2022-23 including the list of candidates who have become eligible for award of UG and PG degrees.

The report of the Controller of Examinations was put up before the members of the Council. Members discussed and accepted.

The Academic Council approved the report of Controller of Examinations for Odd Term 2022-23

Item 29.08 To discuss and approve the changes, if any, in Examination Manual.

There were some changes in examination manual & the principal directions shall be added to examination manual as appendices.

The Academic Council approved the changes in examination manual & the principal directions.

Item 29.09 To discuss and approve the report of Dean (Academic Matters) for Odd Term 2022-23.

The report of the Dean (Academic Matters) was put before the members and discussed.

The Academic Council approved the report of the Dean (Academic Matters) for the Odd Term of 2022-23.



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Item 29.10 To discuss and approve the report of Research Centre Activities for Odd Term 2022-23.

The report of the Research Centre Activities was put before the members and was discussed by the Academic Council.

- The Academic Council suggested to add the title of the Ph.D. along with the researchers information.
- Research report should follow the nomenclature which is easily understandable to all A.C. members.
- Policy No. 27 : Inhouse funding scheme-policy of financial assistance for innovative experimental setup development
- Policy No. 28 : Inhouse funding scheme- policy of financial assistance for innovative minor patentable product development
- Policy No. 29 : Inhouse funding scheme - policy of financial assistance to innovative UG / PG project

The Academic Council approved the report & policies of the Dean (R&D) for the Odd Term of 2022-23.

Item 29.11 To discuss and approve the report of the Training and Placement Cell for Odd Term 2022-23.

The report of the Training and Placement cell was put before the members. The report of Training and Placement cell for Odd Term 2022-23 was discussed by the Academic Council

- The Academic Council suggested the placement value in T&P report should be presented against the total number of students.

The Academic Council approved the report of Training and Placement Cell for the Odd Term of 2022-23.



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Item 29.12 To discuss new UG/PG programme for A.Y. 2023-24 and certificate courses for the A.Y. 2023-24

Following courses for YCCE students were proposed for AY 2023-24 and put before academic council,

1. Closure of programme

1. M.Tech in Computer Science & Engg.

2. M.Tech in CAD/CAM

RTMNU Expert Committee visited YCCE for verification for the proposal of closure of PG Prog. CAD/CAM & CSE and they have issued NOC for change in nomenclature of the above PG Programmes from A.Y. 2023-24

2. Proposal for change in Nomenclature in following P.G.-M.Tech. programmes from academic session 2023-24 :-

?

SN	Existing Nomenclature	New Nomenclature
01	M.Tech.-CAD/CAM	M.Tech.-Automation & Robotics
02	M.Tech.-Computer Science & Engineering	M.Tech.-Data Sciences

3. Reduction / Increase in intake

Sr.No.	Name of UG Programme	Current Intake	New Intake from 2023-24
1.	Computer Technology	120	60
2.	Computer Science & Engg.	120	180

4. Proposal to start new UG/PG programme w.e.f. from academic session 2023-24 :-

SN	Title of the new Programme	Type UG/PG	Duration
01	M.B.A.	PG	2 years

5. Approval to new SWYAM NPTEL Courses for Credit transfer as per NEP 20 towards EXPERIENTIAL LEARNING, VOCATIONAL EDUCATION & SKILLING



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As per the guidelines of University Grants Commission and NEP 20, Introduction of Courses Based on Indian Heritage and Culture, Universal Human Values, Vedic Mathematics, Yoga, Ayurveda, Sanskrit, Indian Languages, Music, and Classical Dance, etc. has been envisaged. Thus, YCCE is attempting for provision for integration of vocational education & skilling, into academic education. Accordingly following courses have been proposed for the students who currently are in I and II Year. The students if successfully complete these courses, would get the credits transferred from the window of Open Electives at their III Year Level.

Category	Sr. No.	Name of Course	Link of the Course	Duration	Credits
YOGA	1	Yoga for Concentration	https://onlinecourses.swayam2.ac.in/aic23_ge05/preview	16 weeks	04
	2	Yoga for Memory Development	https://onlinecourses.swayam2.ac.in/aic23_ge06/preview	16 weeks	04
	3	Yoga for Voice Culture	https://swayam.gov.in/explorer?searchText=Yoga+for+Voice+Culture	16 weeks	04
	4	Yoga for Creativity	https://onlinecourses.swayam2.ac.in/aic23_ge09/preview	16 weeks	04
	5	Yoga and Positive Psychology for Managing Career and Life	https://onlinecourses.nptel.ac.in/noc23_hs74/preview	8 weeks	02
Music	1	Appreciating Hindustani Music	https://onlinecourses.nptel.ac.in/noc23_hs59/preview	8 weeks	02
Psychology	1	The Science of Happiness and Wellbeing	https://onlinecourses.nptel.ac.in/noc23_hs06/preview	8 weeks	02
	2	Language and Mind	https://onlinecourses.nptel.ac.in/noc23_hs24/preview	8 weeks	02
	3	Bilingualism: A cognitive and psycholinguistic perspective	https://onlinecourses.nptel.ac.in/noc23_hs66/preview	8 weeks	02
Intellectual Property Right	1	Introduction to Intellectual Property	https://onlinecourses.swayam2.ac.in/aic21_ge20/preview	12 weeks	03
	2	IP Management & Technology Transfer	https://onlinecourses.nptel.ac.in/noc23_lw01/preview	8 weeks	02
Ethics	1	Towards an Ethical Digital Society: From Theory to Practice	https://onlinecourses.nptel.ac.in/noc23_hs47/preview	4 weeks	01
	2	Ethics In Engineering Practice	https://onlinecourses.nptel.ac.in/noc23_mg41/preview	8 weeks	02
Technical	1	Basics of Remote sensing, GIS & GNSS technology and their applications	https://onlinecourses.swayam2.ac.in/aic22_ge16/preview	15 weeks	03
	2	Exploring Survey Data on Health Care	https://onlinecourses.nptel.ac.in/noc23_hs67/preview	8 weeks	02



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Academic Council approved the changes in nomenclature of M.Tech courses, reduction of intake & new SWYAM NPTEL courses proposed for credit transfer A.Y. 2023-24. Academic council authorized Chairman Dr. U.P. Waghe to take necessary steps to get the approval & complete other formularies in view of starting MBA programme in YCCE w.e.f. AY 23-24.

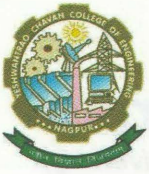
Item 29.13 Any other matter with the permission of the chair.

As there was no other point for the discussion, the meeting was adjourned.

The meeting concluded with thanks to the Chair.

Date: 28th February, 2023

(Dr. A.V. Patil)
Dean (Academic Matters)



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Summary

1.1.2 Percentage of Programmes where syllabus revision was carried out during the years

- Minutes of Academic Council / BOS meetings
- Details of program syllabus revision



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Minutes of 29th meeting of Academic Council held on

Saturday the 25th February, 2023

The 29th meeting of Academic Council was held on **Saturday** the **25th February, 2023** at 11.00 am in the Board Room of YCCE, Nagpur. The following members attended the meeting.

1	Dr. U.P. Waghe, Principal & Chairman	14	Dr. Mrs. M.A. Adak, HoD Mathematics and Humanities
2	Prof. Dr. N.C. Sivaprakash IISc., Bangalore	15	Dr. Mrs. H.V. Ganvir, HoD Physics
3	Dr.P.D. Pachpor Professor, Deptt. of Civil Engineering, SRCOEM, Ramdeo Tekdi, Gittikhadan, Nagpur	16	Dr. Mrs. P.U. Waghe, HoD, Chemistry
4	Shri Amol Deshpande, Sr. Manager - HR, Mahindra & Mahindra Ltd., Mumbai	17	Dr. S.V. Prayagi, Registrar, YCCE
5	Dr. S.P. Raut HoD, Civil Engineering	18	Dr. Arvind Bhagatpatil, Dean (P D)
6	Dr. J.P. Giri HoD, Mechanical Engineering	19	Prof. D.R. Raut, CoE, YCCE,
7	Dr. S.G. Kadwane, HoD , Electrical Engineering	20	Dr. Ms. U.H. Gawande, Dean (R&D)
8	Dr. Pravin Zode, Asstt. HoD Electronics Engineering	21	Dr. Mrs. G.M. Dhopavkar Dean (T&P)
9	Dr. M.S. Narlawar, HoD, Electronics & Telecommunication Engineering	22	Prof. Aniket P. Munshi, Dean (SA)
10	Dr. Lalit Damahe HoD CSE	23	Dr. Manali Kshirsagar, Director Technical & Advisor, YCCE
11	Dr. Mrs. R.D. Wajgi, HoD Computer Technology	24	Dr. S.S. Choudhary, Dean OBE
12	Dr. R.C. Dharmik, HoD, Information Technology	25	Mr. Niraj Wakhare, TPO, YCCE, Nagpur
13	Dr. Mrs. Manjusha P. Gandhi, Chairman, BoS GE & FYC	26	Dr. Mrs. S.V. Rathkantiwar, Dean (IRO), YCCE, Nagpur.
		27	Dr. A.V. Patil, Dean (Acad. Mat.) & Member Secretary



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Leave of Absence granted to			
1	Dr. S.A. Dhale. Principal, Priyadarshini College of Engineering, Digdoh Hills, CRPF Hills, Nagpur	3	Shri Swapnil Shukla, Senior Talent Partner (APAC Region) GitHub (Microsoft), Hyderabad.
2	Dr. Sanjay Kelo Principal, Nararjuna Insitute of Engineering, & Technology & Management, Satnavari, Amravati Road, Nagpur	4	Shri Urvish Pandey Lead - Campus Recruitment & University Relations, Mastercard India, Pune-M.S.

Item 29.01: Welcome of new members

The Chairman of the Academic Council, Dr. U.P. Waghe welcomed the members of the Academic Council

Item 29.02 To confirm the Minutes of 28th Meeting of the Academic Council

The Academic Council unanimously approved the minutes of 28th meeting of Academic Council held on 27th August, 2022.

The Academic Council also unanimously approved the ATR of 28th meeting of Academic Council.

Item 29.03 To discuss and approve the suggestions of Board of Studies for changes in Schemes of Examination and course contents of Autonomous 2018 / 2020 scheme for UG and PG Programs

The Chairpersons of various Boards of Studies presented the minutes of the meetings to Academic Council.

The changes proposed by various boards regarding the syllabi of the courses of "Autonomous 2018/2020" scheme are as below :-

- ❖ **The minor changes in the course contents suggested by the BoS for UG/PG programmes**

Branch	SoE	Sem	Course Code & Name
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Civil Engg.	2020	7	CV2401- Estimating & Costing (The sequence of the units in syllabus need to change.) 1. Building estimate should be shifted and added in Unit II from unit V. 2. Unit IV Earthwork should be shifted in unit III. 3. Specifications & rate analysis of Unit II should be added unit IV. 4. Tender Conditions of Contract should be added in Unit V. 5. Valuation from Unit III should be shifted to Unit VI,
	2020	7	CV2434 PE -V Advanced Steel Design Gantry Girder should be added in Unit II (Moment resistant Connection should be deleted from unit II)
Electrical Engg.	2020	6	PEI: Grid Integration of Renewable Energy
	2020	6	PEI: Switched Mode Power Supply
	2020	7	PEII: Micro Grid
	2020	7	PEIII: Converters and Configurations of Renewable Energy Systems
	2020	7	PEIII: Distributed Generation in power System
	2020	7	PEIV: Industrial Safety
Electronic & Telecom. Engg.	2020	6	ET2254 - Analog Communication Remove the topics TV Fundamentals and digital satellite television.
	2020	7	ET 2443- PE VI: Microwave Integrated circuits Split unit 2 in two units and merge unit 5 and unit 6 to make one unit
Computer Technology	2020	7	Syllabus of Advanced Data Structures, DBMS, Web Technology, Computer Architecture and Organization, Computer Network should be revised
Information Technology	2020	6	<ul style="list-style-type: none"> • Machine Learning course shift to 6th semester as core course • Principles of Artificial Intelligence course shift to 7th semester
	2020		Introduction to Data Science Add topics on Analysis of Variance (ANOVA) Explanation, Formula, and Application. Case Study based on Exploratory Data Analytics
Computer Science & Engg.	2020	4	AIML2256– Design Analysis and Algorithms 4 Credits can be given
	2020	6	CSE2553: Compiler 4 credits can be given
	2020	6	Make Internet of things and Web Technology Courses to be Industry Aligned Take Offline Classes/ labs for Industry aligned course -Mobile Operating system
General Engg.	2022	1	Reshuffling of units is required in course “Differential Equation and Complex Analysis” in SoE 2022.



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❖ **The changes in the Books suggested by the BoS as below**

Branch	SoE	Course Code & Name
Computer Science & Engg.	2020	V CSE & IV CSE(AIML) CSE2302/AIML2259- Lab: Database Management System ("SQL & PL / SQL for Oracle 11g Black Book" as a Reference book) VI - CSE2365-Lab:Neural Network and Application -Add Reference book for Practical- "Deep learning with python" by Francois Chollet

❖ **The changes in the laboratory Courses suggested by the BoS as below**

Branch	SoE	Course Code & Name
Electronic Engg.	2020	EE2402 Digital system design lab.
ETC	2020	ET 2255- lab Analog Communication
Computer Technology	2020	Add one Practical on Protocol Design (SNMP) in Computer Network
Computer Science & Engg.	2020	V - CSE2302– Lab: Database Management Systems IV - AIML2259- Database Management System <ul style="list-style-type: none">Add Practicals based on Multiple Queries VI - CSE2551:Computer Network <ul style="list-style-type: none">Minor Changes in Practical List VI- CSE2361-Lab: PE-II Digital Image Processing <ul style="list-style-type: none">Implement 1-2 Practicals in PythonAdd practicals based on applications on CCTV data VI-CSE2363-Lab: Internet Of Things <ul style="list-style-type: none">Add practicals on creating Sensors based applications like gas sensors, ph sensors ,etc.

❖ **Following new courses/MOOCs courses are suggested by BoS for students for the session 2023-24.**

Branch	CourseName
Civil Engg.	Professional Elective -II offered through Coursera, "Construction Management "conducted by Columbia University, US, to first 20 bright students of VI semester.
Electrical Engg.	Professional Elective I: Programming in C for beginners (6 th Semester) to be added was suggested by Mr. B. S. Sudame



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A.C. approved changes in course contents and changes in the text/reference books, laboratory and MOOC Courses for the courses mentioned above. These changes will be incorporated with immediate effect.

Item 29.04 To discuss and approve the outcomes of Feedback & result analysis suggested by BoS and ATR

The Academic Council suggested that the CO/PO attainment shall be presented in BoS meeting and discussed in A.C. meeting in a specific format as provided by Dean (OBE) at the end of academic year. Subject to following corrections Academic council approved the outcomes of Feedback & result analysis suggested by BoS and its ATR.

- The Academic Council suggested to increase the value of minimum acceptable feedback of faculty from 60% to 65%.
- Include the feedback of Industry in the BoS MoM
- The T&P department should collect the feedback of employer at the time of placement and handover to respective department.
- Academic council suggested that follow the uniform format to represent the faculty feedback.
- Academic council suggested to change the nomenclature of AI and Machine learning related courses in the respective BoS as we have the course elements of AIML at first year level.

Item 29.05 To discuss and approve the Scheme of Examination Autonomous 2022 scheme for UG and PG Programs

DAM presented 1st to Final year SoE 2022 and sample syllabus of First semester to Fourth semester to Academic Council.

Academic Council approved Scheme of Examination 2022 (SoE 2022) as proposed and discussed and started being implemented w.e.f. A.Y. 2022-23 onwards for first to Final year UG and PG programmes.



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Item 29.06 To discuss and finalize the changes, if any, in Academic Regulations

Following agenda points were put up by Academic Council for approval.

- 1) Withdrawal of Summer Term
- 2) Detention policy of YCCE
- 3) Final Semester Project of M Tech (Extension)
- 4) Modification of Scheme of Evaluation of YCCE w.e.f. AY 2022-23
- 5) Special Mentoring Scheme & Make Up Examination for detained students.

Academic Council unanimously approved the changes of Academic Regulations & Principal Direction.

Item 29.07 To discuss and approve the report of Controller of Examinations for Odd Term 2022-23 including the list of candidates who have become eligible for award of UG and PG degrees.

The report of the Controller of Examinations was put up before the members of the Council. Members discussed and accepted.

The Academic Council approved the report of Controller of Examinations for Odd Term 2022-23

Item 29.08 To discuss and approve the changes, if any, in Examination Manual.

There were some changes in examination manual & the principal directions shall be added to examination manual as appendices.

The Academic Council approved the changes in examination manual & the principal directions.

Item 29.09 To discuss and approve the report of Dean (Academic Matters) for Odd Term 2022-23.

The report of the Dean (Academic Matters) was put before the members and discussed.

The Academic Council approved the report of the Dean (Academic Matters) for the Odd Term of 2022-23.



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Item 29.10 To discuss and approve the report of Research Centre Activities for Odd Term 2022-23.

The report of the Research Centre Activities was put before the members and was discussed by the Academic Council.

- The Academic Council suggested to add the title of the Ph.D. along with the researchers information.
- Research report should follow the nomenclature which is easily understandable to all A.C. members.
- Policy No. 27 : Inhouse funding scheme-policy of financial assistance for innovative experimental setup development
- Policy No. 28 : Inhouse funding scheme- policy of financial assistance for innovative minor patentable product development
- Policy No. 29 : Inhouse funding scheme - policy of financial assistance to innovative UG / PG project

The Academic Council approved the report & policies of the Dean (R&D) for the Odd Term of 2022-23.

Item 29.11 To discuss and approve the report of the Training and Placement Cell for Odd Term 2022-23.

The report of the Training and Placement cell was put before the members. The report of Training and Placement cell for Odd Term 2022-23 was discussed by the Academic Council

- The Academic Council suggested the placement value in T&P report should be presented against the total number of students.

The Academic Council approved the report of Training and Placement Cell for the Odd Term of 2022-23.



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Item 29.12 To discuss new UG/PG programme for A.Y. 2023-24 and certificate courses for the A.Y. 2023-24

Following courses for YCCE students were proposed for AY 2023-24 and put before academic council,

1. Closure of programme

1. M.Tech in Computer Science & Engg.

2. M.Tech in CAD/CAM

RTMNU Expert Committee visited YCCE for verification for the proposal of closure of PG Prog. CAD/CAM & CSE and they have issued NOC for change in nomenclature of the above PG Programmes from A.Y. 2023-24

2. Proposal for change in Nomenclature in following P.G.-M.Tech. programmes from academic session 2023-24 :-

?

SN	Existing Nomenclature	New Nomenclature
01	M.Tech.-CAD/CAM	M.Tech.-Automation & Robotics
02	M.Tech.-Computer Science & Engineering	M.Tech.-Data Sciences

3. Reduction / Increase in intake

Sr.No.	Name of UG Programme	Current Intake	New Intake from 2023-24
1.	Computer Technology	120	60
2.	Computer Science & Engg.	120	180

4. Proposal to start new UG/PG programme w.e.f. from academic session 2023-24 :-

SN	Title of the new Programme	Type UG/PG	Duration
01	M.B.A.	PG	2 years

5. Approval to new SWYAM NPTEL Courses for Credit transfer as per NEP 20 towards EXPERIENTIAL LEARNING, VOCATIONAL EDUCATION & SKILLING



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As per the guidelines of University Grants Commission and NEP 20, Introduction of Courses Based on Indian Heritage and Culture, Universal Human Values, Vedic Mathematics, Yoga, Ayurveda, Sanskrit, Indian Languages, Music, and Classical Dance, etc. has been envisaged. Thus, YCCE is attempting for provision for integration of vocational education & skilling, into academic education. Accordingly following courses have been proposed for the students who currently are in I and II Year. The students if successfully complete these courses, would get the credits transferred from the window of Open Electives at their III Year Level.

Category	Sr. No.	Name of Course	Link of the Course	Duration	Credits
YOGA	1	Yoga for Concentration	https://onlinecourses.swayam2.ac.in/aic23_ge05/preview	16 weeks	04
	2	Yoga for Memory Development	https://onlinecourses.swayam2.ac.in/aic23_ge06/preview	16 weeks	04
	3	Yoga for Voice Culture	https://swayam.gov.in/explorer?searchText=Yoga+for+Voice+Culture	16 weeks	04
	4	Yoga for Creativity	https://onlinecourses.swayam2.ac.in/aic23_ge09/preview	16 weeks	04
	5	Yoga and Positive Psychology for Managing Career and Life	https://onlinecourses.nptel.ac.in/noc23_hs74/preview	8 weeks	02
Music	1	Appreciating Hindustani Music	https://onlinecourses.nptel.ac.in/noc23_hs59/preview	8 weeks	02
Psychology	1	The Science of Happiness and Wellbeing	https://onlinecourses.nptel.ac.in/noc23_hs06/preview	8 weeks	02
	2	Language and Mind	https://onlinecourses.nptel.ac.in/noc23_hs24/preview	8 weeks	02
	3	Bilingualism: A cognitive and psycholinguistic perspective	https://onlinecourses.nptel.ac.in/noc23_hs66/preview	8 weeks	02
Intellectual Property Right	1	Introduction to Intellectual Property	https://onlinecourses.swayam2.ac.in/aic21_ge20/preview	12 weeks	03
	2	IP Management & Technology Transfer	https://onlinecourses.nptel.ac.in/noc23_lw01/preview	8 weeks	02
Ethics	1	Towards an Ethical Digital Society: From Theory to Practice	https://onlinecourses.nptel.ac.in/noc23_hs47/preview	4 weeks	01
	2	Ethics In Engineering Practice	https://onlinecourses.nptel.ac.in/noc23_mg41/preview	8 weeks	02
Technical	1	Basics of Remote sensing, GIS & GNSS technology and their applications	https://onlinecourses.swayam2.ac.in/aic22_ge16/preview	15 weeks	03
	2	Exploring Survey Data on Health Care	https://onlinecourses.nptel.ac.in/noc23_hs67/preview	8 weeks	02



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Academic Council approved the changes in nomenclature of M.Tech courses, reduction of intake & new SWYAM NPTEL courses proposed for credit transfer A.Y. 2023-24. Academic council authorized Chairman Dr. U.P. Waghe to take necessary steps to get the approval & complete other formularies in view of starting MBA programme in YCCE w.e.f. AY 23-24.

Item 29.13 Any other matter with the permission of the chair.

As there was no other point for the discussion, the meeting was adjourned.

The meeting concluded with thanks to the Chair.

Date: 28th February, 2023

(Dr. A.V. Patil)
Dean (Academic Matters)