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
NAAC Accredited with 'A++' Grade
Ph.: 07104-242919, 242623, 242588
Website : www.ycce.edu E-mail : principal@ycce.edu

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	**2023-24**
Number of Programmes UG	13
Number of Programmes PG	08
Number of Programmes (UG+PG)	**21**
Percentage of Programmes	100%

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

Y.C. COLLEGE OF ENGINEERING AUTONOMOUS INSTITUTION SEAL NAGPUR

Principal
Yeshwantrao Chavan
College of Engineering
Wanadongri Hingna Road,
NAGPUR - 441110

INDEX

Sr. No.	Particulars	Page Nos.
1	Circular of University stating implementation of CBCS	03-21
2	Implementation of CBCS / Electives by the institution for 2022-23 & MoM of BoS	22-196

Circular of University stating implementation of CBCS

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 PlanPeriod (2012-2017);

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 documention 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

रजिस्ट्री सं० डी० एल०-33004/99 REGD. NO. D. L.-33004/99

भारत का राजपत्र
The Gazette of India

असाधारण
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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 (वि0अ0आ0) को विश्वविद्यालयों में उच्चतर शिक्षा के मानकों का निर्धारिण 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 (ञ) के साथ पठित धारा **26** की उपधारा **(1)** के खण्ड (च) तथा (छ) द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए विश्वविद्यालय अनुदान आयोग एतद्द्वारा 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 है, 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।

अवधिः— वित्त समिति की अवधि तीन वर्ष होगी।

बैठकः— 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 समाधानः

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 <u>GOVERNING BODY:</u>

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 <u>ACADEMIC COUNCIL:</u>

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]

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डॉ. मंजू सिंह
संयुक्त सचिव
Dr. Manju Singh
Joint Secretary

विश्वविद्यालय अनुदान आयोग
University Grants Commission
बहादुरशाह ज़फर 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)

09 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 2396
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 2023-24

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**

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.: 07104-237920, 234623, 329249, 329250 Fax: 07104-232376, Website: www.ycce.edu

DEPARTMENT OF CIVIL ENGINEERING

NOTICE
{BoS}

Date:- 17th July 2023

Meeting No. 32 of Board of Studies of Civil Engineering Department is scheduled on **Thursday, 20th July, 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. 32.01
Welcome of new members

Agenda No.32.02
Installation of member Secretary

Agenda No. 32.03
Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.

Agenda No. 32.04
To discuss and finalize the Scheme of Examination SoE 2023 of all 13 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 and Post graduate programs in VLSI and Data Science and Automation & Robotics, conducted under the respective boards Board.
To approve SoE23 and all syllabi of B.Tech I Year .

Agenda No.32.05
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. 32.06
To discuss and suggest the minor changes in the syllabi of various courses in B.Tech 2022 & M.Tech 2022 Schemes of Undergraduate and Post graduate programs respectively conducted under the Board.

Agenda No.. 32.07
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.. 32.08
To discuss and approve the list of experiments, wherever there is a change, in the laboratory cou rses of Under-Graduate and Post Graduate programs.

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DEPARTMENT OF CIVIL ENGINEERING

Agenda No.. 32.09
To discuss and suggest the changes in the Academic Regulations governing the Undergraduate a nd Post graduate programs conducted under the Board.

Agenda No.. 32.10
To discuss and propose the new courses/MOOCS received from the faculty for inclusion in the curriculum.

Agenda No.. 32.11
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 2023-24.

Agenda No.. 32.12
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 Odd Term 2023-24.

Agenda No.. 32.13
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 2023-24.

Agenda No.. 32.14
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.. 32.15
To discuss and suggest the changes/additions/deletions/alterations in the existing. Evaluation Process for theory and other courses.

Agenda No.. 32.16
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 2022-23.

Agenda No.. 32.17
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

Nagar Yuwak Shikshan Sanstha's
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DEPARTMENT OF CIVIL ENGINEERING

NOTICE
{BoS}

Date:- 17th July 2023

Meeting No 32 of Board of Studies of Civil Engineering Department is scheduled on **Thursday, 20th July, 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		32	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		32	Ms. Sneha Gowardhan Hirekhan	
14	Mr. Harshal Rameshrao Nikhade		32	Mr. Rajesh Madhukar Bhagat	
15	Mr. Jayant Manohar Raut		32	Dr. Mrs. Boskey V. Bahoria	
16	Mr. Dhiraj Giridharilal Agrawal		33	Mr. Uday Singh Patil	
17	Mr. Pawan Keshaorao Hinge		34	Ms.Monika D.Tiwari	

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 32nd BoS Meeting dated on Thursday 20th July 2023

32nd Meeting of BoS of Civil Engineering was held on Thursday 20th July 2023. 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 Keshaorao 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.ShantanuRamkrishna Khandeshwar	25	Mr. Atul Sambhuji Kurzekar
7	Dr. Sudhir Vasantrao Ambekar	26	Mr. Vivek Dnyandeo Jayale
8	Dr. Abhay Vinayakrao Patil	27	Mr. Harshal Madhukar Warade
9	Dr. Ajay Ramdas Gajbhiye	29	Ms. Pallavi Shalikram Chakole
10	Dr. Rajendra Rupraoji Dighade	29	Mr. Sanket Gajanan Kalamkar
11	Mr.Devendra Rajram Raut	30	Mr. Sagar Wasudeo Dhengare
12	Mr. Bhupesh Purshottam Nandurkar	31	Ms. Monali Rewashankar Wagh
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. Uday Singh Patil
18	Mr. Harshal Rameshrao Nikhade	37	Ms.Monika D.Tiwari
19	Mr. Jayant Manohar Raut		

Following members has been permitted leave of absence

1.Dr. Vilas Ganuji Meshram

2.Ms. Snehal Karunkumar Kamble

3.Er. Jagdish Lanjewar

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DEPARTMENT OF CIVIL ENGINEERING

Minutes of Meetings 32nd BoS Meeting

Agenda No. 32.01
Welcome of new members
Dr S. P. Raut, BoS Chairman, and Dr. S. R. Khandeshwar welcomed all BoS experts viz., Dr. A. D. Ghare, Professor, Department of Civil Engineering, VNIT ,Dr. M. V. Madurwar, Associate Professor, Department of Civil Engineering, VNIT, Nagpur, Dr,. M. D. Goel, Associate Professor, Department of Applied Mechanics, VNIT, Nagpur and Er. S. N. Harinkhede, Alumni for the meeting. Chairman also welcomed Ms. Monika D. Tiwari , new member of BoS and all departmental BoS members.

Agenda No. 32.02
Installation of member Secretary
It has been decided to retain Ms. Charuta S. Waghmare as Member secretary BoS for the session 2023-24.

Agenda No. 32.03
Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.
The minutes of previous meeting no.31 held on Friday, 3rd, February, 2023 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. V. N. Mendhe seconded it. The minutes were then accepted.

Agenda No. 32.04
To discuss and finalize the Scheme of Examination SoE 2023 of Civil 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 conducted under the respective board.
To approve SoE23 and all syllabi of B.Tech I Year .
The Scheme of Examination SoE 2023 of Civil 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 devised by Dean (Academic Matters) as per the GR and the important points of GR have been discussed thoroughly. The total of 176 credits has been distributed under various course category defined under GR.

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.

Agenda No. 32.05
To discuss and suggest the action taken on

- Co/Po attainment of subjects taught in previous semester
  The Co/Po attainment of courses of the session 2022-23 are in process. The process will be completed after the result of B.Tech. First year .

DEPARTMENT OF CIVIL ENGINEERING

- **Result analysis of subjects taught in previous semester**
  The overall and subject wise result analysis of Even Term 2022-23 (IV, VI and VIII semester) 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	76.80
2	VI	80.49
3	VIII	100.00

- Stake holders' feedback on review and design of curriculum

S.N.	Stakeholder	Feedback	Action taken
1	Parent	The syllabus designed for the programme is as per the requirement of the current society. (Received from the Parent who is Civil Engineer and working as Govt. Officer)	-
2	Students	1.New chapters should be added in some subjects for example- new trending instruments used in field of surveying etc. 2."Building construction " should be added in curriculum.	1.Apart from the core course "Surveying", CV2433 - PE-V : Modern Surveying Technique , is being offered as professional elective in which the advance techniques such as GIS,GPS & Remote sensing is covered. 2.CV2311 - PE-I : Advance Surveying, in V semester takes care of Advance instruments as Total Station, 3. Even though the inclusion of the Total Station in Core Subject may be taken care of. 4. For the current session the subject Building Construction Materials, has been floated as a Professional Elective Course of which students may take benefit. [CV2315 - PE-I: Building Construction Materials]. 5. Building Construction Materials course has been included as a core course in the SOE-2022-23.
3	Alumni	1.Project Planning and Management should be added as the core subjects 2.Building materials should be a compulsory subject rather than elective.	1. The course Project Planning and Quality Assurance is added as core course in the SoE 22-23. Department is conducting Value added courses as per the

		3.Building information modelling (BIM) and digital tools: As the industry continues to adopt advanced technologies, integrating topics related to Building Information Modeling (BIM) and digital tools can equip civil engineering students with the skills necessary to effectively utilize these tools for project design, coordination, and management. 4.Instead of a 4-month long internship, doing a month of internship at 4 different streams of Civil Engineering can provide a better exposure of the field. It can also help the student identity their stream of interest and can go for a more satisfied job or post.	requirement of the industry. 2.Building construction and Building materials course is added as core course in SoE 22-23. 3.Laboratory course BIM is included in SoE 22-23. Value added course related to BIM is also conducted by the department. 4.The agenda will be discussed with Dean Academic Matters and Dean (T& P)
4	Faculty	Curriculum is designed considering need of the industry.	SoE 22-23 and SoE 23-24 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**
IV	7/10 **70.00**		3/10 **30.00**		--	--	--	--
VI	10/19 **52.63**		9/19 **47.37**		--	--	--	--

Agenda No. 32.06

To discuss and suggest the minor changes in the syllabi of various courses in B.Tech 2022 & M.Tech 2022 Schemes of Undergraduate and Post graduate programs respectively 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.
Few corrections and amendments were proposed by members for inclusion in the curriculum in SoE 2022 of the Undergraduate.

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DEPARTMENT OF CIVIL ENGINEERING

S.N.	Sem	Course Code	Course Name	Contents	
				Added	**Deleted**
1	VI	CV2362	New Engineering Materials	1.In Unit no. 5, Content on Geo polymers, Geo synthetics and its application in Civil Engineering need to be added; 2. In unit 3: Construction chemicals may be added 3) In unit 6, use of IS :11384"Metals Steels HYSD, TMT, Tendons, Light Gauge Steel, Steel Fastenings, New Alloy Steels, Protective Coatings to Reinforcement." may be added.	In unit 6, steel composites sections may be deleted.
2	VII	CV2429	PE IV-Watershed Management	1.Unit V: Case studies on Arable and Non-Arable lands	1.Unit II: fundamentals, tips, myths 2.Unit V: Conservation Bench terracing, ditches, land levelling, hydraulic measures, retaining wall, alley cropping and trillage, Half-moon Terraces, Geojute, retaining walls, wattling, crib number method, Watershed committees for reviewing and reporting, Research requirements and post project management in watershed 3.UnitVI: Curve number method
3	VI	CV2404 -	Hydrology & Water Resources Engineering	1.Unit1-Infiltration, Infiltration indices 2.Unit 3-Gumbel's method 3.Unit5:Phreatic lines(graphical method)	1.Unit-I: classification of streams, Measurement of discharge of a stream by Area-slope and Area-velocity methods 2. Unit III: Statistical Methods: Statistics in hydrological analysis, probability and probability distribution. 3. Unit IV: Canal Irrigation : types of canal system, stable canal, unstable canal, grading, lined, canal network

No corrections and amendments were proposed by members for inclusion in the curriculum in SoE 2022 of the Postgraduate.

Agenda No. 32.07

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

DEPARTMENT OF CIVIL ENGINEERING

Agenda No. 32.08
To discuss and approve the list of experiments, wherever there is a change, in the laborat ory 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. 32.09
To discuss and suggest the changes in the Academic Regulations governing the Undergrad uate 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. 32.10
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 2023-24, 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. 32.11
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 2023-24.
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.

Agenda No. 32.12
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 Odd Term 2023-24.

DEPARTMENT OF CIVIL ENGINEERING

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.

Agenda No. 32.13

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 2023-24.

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.

Agenda No. 32.14

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	
Courses offered SoE 2020					**EQB**	**Solution**
1	V Sem.	CV2329	PE-I : Advanced Concrete Technology	PE	Yes	Yes
2	V Sem.	CV2302	Advanced Structural Analysis	PC	Yes	Yes
3	V Sem.	CV2321	PE-I : Advanced Surveying	PE	Yes	Yes
4	V Sem.	CV2323	PE-I : Computer Applications in Civil Engineering	PE	Yes	Yes
5	V Sem. & VI Sem.	CV2333	OE-I : Introduction to Environmental Management	PC	Yes	Yes
6	VI Sem.	CV2351	Steel Structures	PC	Yes	Yes
7	VI Sem.	CV2355	Foundation Engineering	PC	Yes	Yes
8	VII Sem.	CV2401	Estimating & Costing	PC	Yes	Yes
9	VII Sem.	CV2403	Wastewater Engineering	PC	Yes	Yes
10	VII Sem.	CV2404	Hydrology and Water Resources Engineering	PC	Yes	Yes
11	VII Sem.	CV2418	PE-III : Urban Transportation Planning	PE	Yes	Yes
12	VII Sem.	CV2435	PE-V : Design of Bridge Structures	PE	Yes	Yes

Preparation of Electronic question Bank UG courses according to B.Tech. SoE 2022 is in process.

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DEPARTMENT OF CIVIL ENGINEERING

Agenda No. 32.15
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. 32.16
To discuss and propose scheme for Minor and Honor course and its syllabus.
1.For the session 2023-24, Department has offered B.Tech.Honor Program(Remote sensing and GIS).The course has been in collaboration with Ceinsys Tech.Ltd.Nagpur. Total 18 students opted for this course.

2.Department has developed new course for Honor(Green Technologies and Sustainability Engineering) and Minor(Smart Cities) .The SoE and syllabus of both the courses has been appreciated by BoS experts.

To Discuss and propose Certificate courses and value-added courses in Odd term 2023-24

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

Sr. no.	Title Of Course	Sem	Course Hours	Dates Of Conduction	No. of participants
1	Value-added course on "Highway Engineering Design by Civil 3D"	VI(A+B+C)	30 Hrs	01, 02, 09, 10, & 15 October 2022	90
2	Value-added course on "Transportation Design by MX Road"	VI(A+B+C)	30 Hrs	01, 02, 08, 09, & 23 October 2022	94
3	Value Added Course on "HIT OFFICE Construction management ERP"	VII (A+B+C)	30 Hrs	17, September 01, 08, 15, 22, October 2022	74
4	Value-added course on Primavera	VII (A+B+C)	30 Hrs	17, September 01, 15 October 05, 12, November 2022	69
5	Value-added course on "Seismic Analysis & Design of G+5 RCC Building Using STAADPRO"	VII (A+B+C)	30 Hrs	18, September 02, 16, October 06, & 08 November 2022	68

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DEPARTMENT OF CIVIL ENGINEERING

Planning of certificate & value added courses conducted by departments
In Odd AY 23-24

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
1	Civil Engg.	Value Added Course on "Building Information Modelling"	VII	30	Online + Offline	August-September 23-24	
2		Value Added Course on WATERGEMS Software	VII	30	Online + Offline	August-September 23-24	
3		Value Added Course on "Structural analysis of G+2 by using ETAB"	V	30	Online + Offline	September-October 23-24	
4		Basic Certification Course on "analysis and Design of Civil Engineering Structures using STADD-Pro"	V	30	Online + Offline	September-October 23-24	
5		Value Added Course on "Drawing threads in AutoCAd Civil 2D & 3D"	III	30	Online + Offline	October-December 23-24	
6		Value Added Course on "3DS MAX"	III	30	Online + Offline	October-December 23-24	

Agenda No. 32.17
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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Yeshwantrao Chavan College of Engineering
(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University
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Ph.: 07104-237919, 234623, 331249, 331250 Fax: 07104-232376, Website: ww.ycce.edu

Department of Computer Technology

NOTICE
32nd Board of Studies Meeting

Date: 20th January 2024

The **32nd** meeting of the Board of Studies in **Computer Technology** is scheduled on **20th January 2024** at **10.30 A.M** in **Department of Computer Technology, YCCE, Nagpur**.

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 finalize the Scheme of Examination SoE 2023 of all 13 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 and Post graduate programs in VLSI and Data Science and Automation & Robotics, conducted under the respective boards Board. To approve SoE23 and all syllabi of B.Tech I Year .

Agenda No. 31.05

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 holder's feedback on review and design of curriculum
iv In Sem, End Sem and Exit feedback on Teaching Lear & curriculum

Agenda No. 31.06

To discuss and suggest the minor changes in the syllabi of various courses in B.Tech 2022 & B.Tech 2022 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. 31.8

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

Agenda No. 31.9

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

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Agenda No. 31.10

To discuss and propose the new courses/ Massive Open Online 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 Odd Term 2023-24.

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 2023-24.

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 Term 2023-24.

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 2023-24.

Agenda No. 31.17

Any other matter with the permission of the Chair.

Dr. Prarthana A. Deshkar
Member Secretary
BoS, Deptt of Computer Technology

Dr. Rakhi D. Wajgi
Chairperson
BoS, Deptt. of Computer Technology

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Yeshwantrao Chavan College of Engineering
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Department of Computer Technology

Date:- 22nd July 2023

31st Meeting of Board of Studies(Saturday 22/07/2023)

BoS Members

Sr. No.	Name of Member	Signature
1.	Dr. Rakhi D. Wajgi	
2.	Dr. Manali M. Kshirsagar	
3.	Dr. NileshSingh 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.Yenurkar	
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	
29.	Prachi Bainalwar	
30.	Sneha Sahare	
31.	Ashwini Gote	
32.	Shweta A. Gode	

*** Leave of absence granted**

BoS Experts

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	Academia	Leave of absence granted
2.	Mr. Ajit Dharmik, Director, 6 Simplex Software Solutions Pvt. Ltd., Nagpur	Industry	
3.	Mr. Vaibhav Deshpande, Assistant Professor, CE Dept. SVPCET, Nagpur	PG Alumni	

Minutes of 31st BoS Meeting conducted on Saturday 22nd July 2023

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Department of Computer Technology

31st Meeting of BoS of Computer Technology was held on Saturday 22nd August 2022.
It was chaired by Dr.R.D.Wajgi, Chairman BoS.

Agenda No. 31.01

Dr. R. D. Wajgi welcomed all BoS experts, Dr. Adane, Ramdeobaba College of Engineering, Nagpur, Mr. Ajit Dharmik, Director 6Simplex pvt. Ltd. Nagpur, Dr. Vaibhav Deshpande, Alumni and Assistant Professor, SVPCE.

Chairperson also welcomed all departmental BoS members.

Agenda No. 31.02

NIL

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 finalize the Multidisciplinary Minor Tracks (MDM) in the Scheme of Examination SoE 2023, framed as per NEP 20 Guidelines, issued by Government of Maharashtra through GR No: NEP-2022/(67/23) /DTE-2 dated 04.07.2023.

1. Multidisciplinary Minor Track 1 in the domain of Cyber Security was proposed and approved by the experts
2. Multidisciplinary Minor Track 2 in the domain of 'Digital IT Support' was proposed and approved by the experts
3. Multidisciplinary Minor Track 3 in the domain of 'Project Management' was proposed and approved by the experts
4. Experts have suggested that Multidisciplinary Minor Track 4 should be based on the 'UI/UX Design' domain

Agenda No. 31.05

- **Co/Po attainment of subjects taught in Odd semester 2023-24**
  Institution is shifting all its processes on a new Information System Software, due to which, we are experiencing slight delay in compilation of the information hence not able to complete the Co/Po attainment process. We have done the attainment of the internal exams but final analysis is still in process.
- **Result analysis of subjects taught in previous semester**
  Institution is shifting all its processes on a new Information System Software, due to which, we are experiencing slight delay in compilation of the information hence not able to present the result analysis.

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

Stakeholder	Suggestions given	Action taken
Alumni Feedback	• Self learning should be there for the new technology courses • More industry based courses is required	• Coursera courses added as a PE II in the SoE 2020 of B.Tech • Honor and Minor programs on Full Stack is introduced from session 2023-24 under the 'Institutional Technical Hub. And the course contents are delivered by the Industry

		experts
Student Feedback	Advance topics are needed in the practical courses	• Complete practical list of the course 'Advance Web Technology' is changed according to suggestions from the industry experts • The advance topics like GitLab, Devops are added in the practical list of course 'Software Engineering'

- **In Sem, End Sem and Exit feedback on Teaching Learning & curriculum (No. of faculties scored feedback less than the set threshold value)**

Sr. NO	III	V	VII
<65%	NIL	1	NIL

Action Taken: The concerned faculty members were called for counselling by a committee consisting of Principal, DAM and HoD and discussed the reasons behind less student feedback. Committee suggested the measures and necessary actions to improve the performance.

Agenda No. 31.06

To discuss and suggest the minor changes in the syllabi of various courses in B.Tech 2020, 2022 & B.Tech 2023 Schemes of Undergraduate and Post graduate programs conducted under the Board (CT and AIDS).

1. Minor changes were suggested in the syllabus of course 'Big data and Hadoop' of the 7th semester course of the program B.Tech in AIDS. Experts have suggested to reframe the Unit I and Unit VI
2. Minor changes were suggested in the syllabus of 'Deep Learning' of the 7th semester course of the program B.Tech in AIDS
3. Experts have suggested to add some language independent tools for the course 'Introduction to Logic Building and Programming' ex : Scratch

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 Postgraduate Programs.

Agenda No. 31.8

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

1. In the list of experiments of the course Software Engineering in the SoE of B.Tech 2022 of undergraduate program, practical based on deployment of software, complete lifecycle of software, is added and approved by the experts
2. List of pure lab course, 'Advance Web Technology', in the SoE B.Tech 2022 of program AIDS is proposed and approved by the experts

3. In the list of experiments of the course Operating Systems in the SoE of B.Tech 2022 of undergraduate program, practical based on OpenMP, thread programming and shell scripting is added and approved by experts.

Agenda No. 31.9
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 members.

Agenda No. 31.10
To discuss and propose the new courses/ Massive Open Online Courses (MOOCS received from the faculty) for inclusion in the curriculum.

Coursera Course is added as a Professional Elective II in the SoE of B.Tech 2020. The name of the course is Programming with Javascript and React Basics.

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 2023-24.

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 2023-24 will be provided 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 Even Term 2023-24.

The panel of paper setters, Moderators and Valuers for the various theory courses at Postgraduate programs that will be examined in End Semester Examination of Even Term 2023-24 will be provided 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 Term 2023-24.

The panel of paper setters, Moderators and Valuers for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination of Even Term 2023-24 will be provided 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.

Preparation of Electronic question Bank for all semesters is ready. Solutions of few courses are ready and few courses partially ready. EQB with Solution of newly introduced courses and PE is ongoing.

Agenda No. 31.15

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

No corrections and amendments were proposed by any members.

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 2023-24**.**

1. Honor and Minor programs for the session 2023-24 are conducted by the 'Institutional Technical Hub'.
2. Honor and Minor programs are, B. Tech Honors in AWS and DevOps and B.Tech Minors in AWS and DevOps.

To Discuss and propose certificate courses and value-added courses in session 2023-24.

SN	Deptt.	TITLE OF COURSE	Sem	COURSE HOURS	MODE OF TRAINING	DATES OF CONDUCTION & TOTAL HOURS IN COURSE
1	CT	VAC on Programming and Logic Building	4th	30	Offline	24 March 2024 to 06 April 2024
2	CT	VAC on Core Competence Building	6th	30	Offline	10 Feb 2024 to 02 March 2024
3	CT	VAC on Entrepreneurship Skill Development	4th , 6th	30	Online + Offline	10 Feb 2024 to 02 March 2024

Agenda No. 31.17

Any other matter with the permission of the Chair.

NO.

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

Dr. Prarthana A. Deshkar

Dr. Rakhi D. Wajgi

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Department of Computer Technology

Member Secretary
BoS, Deptt of Computer Technology

Chairperson
BoS, Deptt. of Computer Technology

Nagar Yuwak Shikshan Sanstha's

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SoE No. CV-202.1

B.TECH SCHEME OF EXAMINATION 2020-21

(Revised Scheme of Examination w.e.f. 2022-23 onward)

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	

Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

SoE No. CV-202.1

B.TECH SCHEME OF EXAMINATION 2020-21

(Revised Scheme of Examination w.e.f. 2022-23 onward)

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

		June 2022	**1.05**
Chairperson	**Dean (Acad. Matters)**	**Date of Release**	**Version**

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SoE No. CV-202.1

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(Revised Scheme of Examination w.e.f. 2022-23 onward)

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 Technicques
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

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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

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						L	T	P	Hrs		MSEs*	TA**	ESE	
Eigth 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**				

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NOTICE
{BoS}

Date:- 15/07/2023

Notice of BOS Meeting

The **thirty-first meeting** of the Board of Studies in **Mechanical Engineering** is scheduled on **Wednesday 19th July 2023 at 11:30 AM.**

The agenda for the meeting is as follows:

Agenda No. 31.01
Welcome of members

Agenda No. 31. 02
Installation of member Secretary (Comment: If there is a change from previous meeting)

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 finalize the Scheme of Examination SoE 2023 of all 13 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 and Post graduate programs in VLSI and Data Science and Automation & Robotics, conducted under the respective boards Board. To approve SoE23 and all syllabi of B.Tech I Year

Agenda No. 31.05
To discuss and suggest the action taken on

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

Agenda No. 31.06
To discuss and suggest the minor changes in the syllabi of various courses in B.Tech 2022 & B.Tech 2022 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.

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 Odd Term/Even Term 2022-23

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/Even Term 2023-24

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/Even Term 2023-24.

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 2023-24.

Agenda No. 31.17
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:- 15/07/2023

31st Meeting of Board of Studies (Wednesday 19/07/2023)

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		**43**	Dr.S.G.Mahakalkar	Member	
21	Prof. R. G. Bodkhe	Member					
22	Prof. D. Y. Shahare	Member					
23	Dr. S. S. Khedkar	Member					

Minutes of 31st BoS Meeting dated on Wednesday 19h July2023

31st Meeting of BoS of Mechanical Engineering was held on **Wednesday 19th July2023**. It was chaired by Dr. J.P.Giri, Chairman The followinglowing members were present.

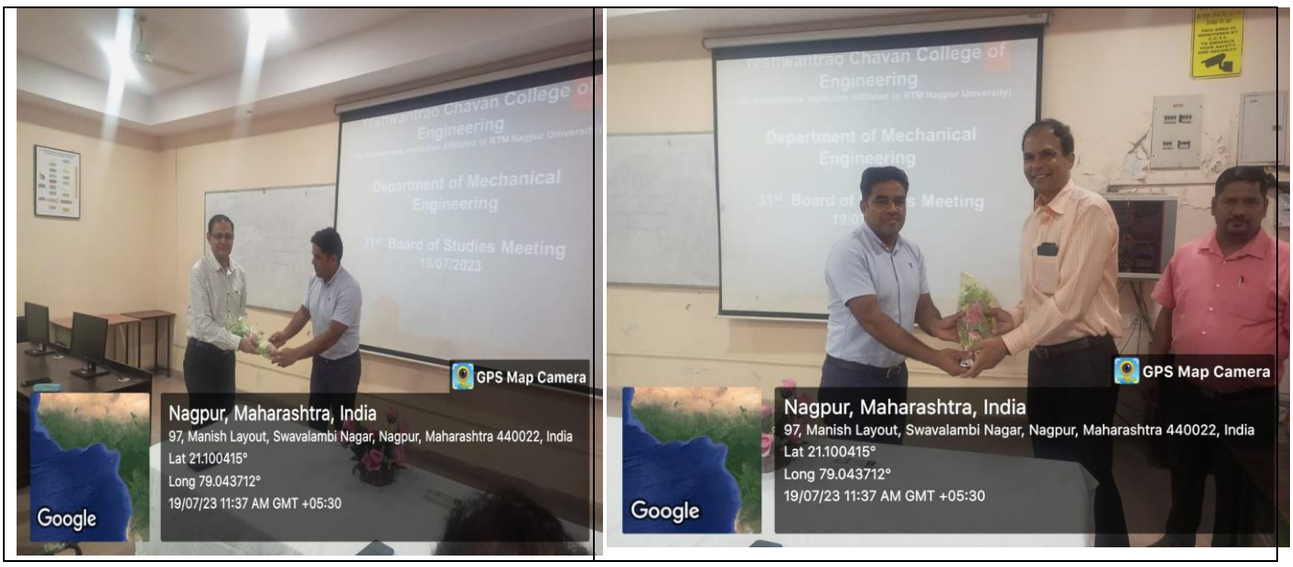
S.N.	Name	S.N.	Name
1	Dr. J. P. Giri	23	Prof. R. V. Adakane
2	Dr. Y. M. Puri	24	Prof. D. N. Kashyap
3	Dr. A. S. Dhobale	25	Prof. A. R. Narkhede
4	Prof. V. M. Korde	26	Prof. S. P. Kamble
5	Prof. A. P. Edlabadkar	27	Prof. Y. Y. Nandurkar
6	Dr. R. B. Chadge	29	Prof. M. M. Dakhore
7	Prof. D. I. Sangotra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

Following members has been permitted leave of absence

1.Mr. Shree Jamdar

2. Mr. Irfan Makki

Minutes of Meetings 31stBoS Meeting



Agenda No. 31.01
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. 31.02
Installation of Member Secretary
No Change.

Agenda No. 31.03
Confirmation of minutes of previous Meeting and action is taken report on decisions/suggestions of the previous meeting.
The minutes of previous meeting no. 30 held on Wednesday 15th Feb 2023 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. 31.04
To discuss and finalize the Scheme of Examination SoE 2023 of all 13 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 and Post graduate programs in VLSI and Data Science and Automation & Robotics, conducted under the respective boards Board. To approve SoE23 and all syllabi of B.Tech I Year

The finalized Scheme of Examination SOE 2023 of the undergraduate programmed as per NEP20 Guidelines issued by issued by Government of Maharashtra through GR No: NEP-2022/(67/23) / DTE-2 dated 04.07.2023 was discussed and approved by the BoS mechanical.

Agenda No. 31.05
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.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO-1	PSO-2
Target	2.89	2.48	2.39	1.99	2.21	2.14	1.74	1.49	1.98	1.79	1.72	1.98	2.47	2.28
Achieved	2.39	2.11	2.11	1.72	1.95	1.86	1.60	1.45	1.76	1.68	1.64	1.79	2.23	2.02
	82.70%	85.08%	88.28%	86.43%	88.24%	86.92%	91.95%	97.32%	88.89%	93.85%	95.35%	90.40%	90.28%	88.60%

- **Result analysis of subjects taught in previous semester.** (Annexure 3)
The overall and subject wise result analysis of Even 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	IV	83.79
2	VI	82.34
3	VIII	100.00

As the results of all the semesters are above 80%, no action is required 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 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.	1.All semester students will be benefitted with site visits.
		2. Industry based courses should be run.	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 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	13/15	14/15	02/15	01/15	-	-	-	-
VI	09/11	10/21	02/11	01/11	-	-	-	-

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

Agenda No. 31.06

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

No corrections and amendments were proposed by any members in the syllabi of various courses in B.Tech 2022 & B.Tech 2022 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.
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 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.

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.

No corrections and amendments were proposed by any member.

Agenda No. 31.10
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. 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/Even Term 2023-24

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 2023-24will 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/Even Term 2023-24

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 2023-24 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/Even Term 2023-24.

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 2023-24 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.
The account of EQB with a solution is available and will be distributed to students very shortly.

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.

Agenda No. 31.16
To discuss and propose a scheme for Minor and Honor course and its syllabus. To Discuss and propose Certificate courses and value-added courses in Even Term 2023-24.

The scheme for the Minor and Honor course and its syllabus was discussed and approved by BoS Mechanical.

Agenda No. 31.17
Any other matter with the permission of the Chair

No suggestions were proposed by any members.

Dr. J.P.Giri	Prof. A.P. Edlabadkar
Chairman	Member Secretary
BoS in Mechanical Engineering	BoS in Mechanical Engineering

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, 329249, 329250 Fax: 07104-232376, Website: www.ycce.edu

Department of Mechanical Engineering

Date: 8/2/2024

Minutes of Meetings 32nd BoS Meeting

32nd Meeting of BoS of Mechanical Engineering was held on Monday 5th Feb 2024 at Department of Mechanical Engineering, YCCE, Nagpur. The meeting was chaired by Dr. J. P. Giri, Chairman, Board of Studies in Mechanical Engineering. The following members were present:

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

Following members has been permitted leave of absence:

1. Mr. Irfan Makki
2. Mr. C.A.Mahatme
3. Miss. D.N.Kashyap

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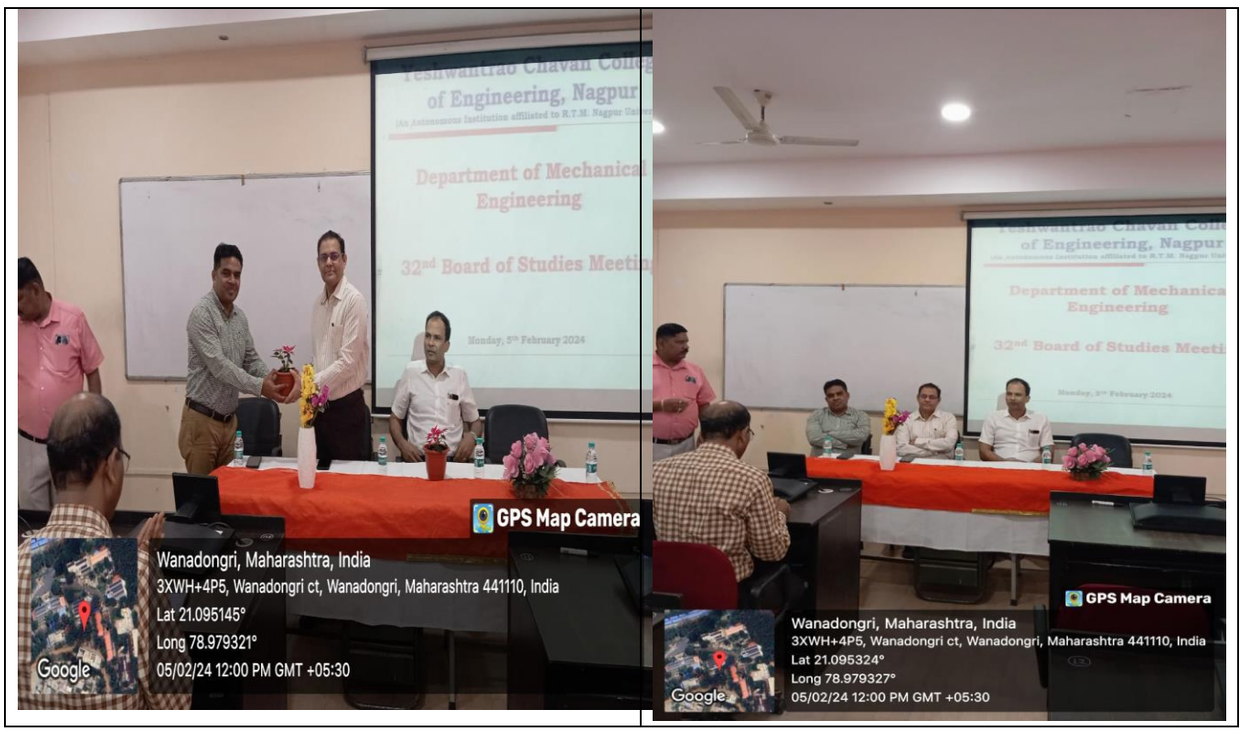
Ph.: 07104-237919, 234623, 329249, 329250 Fax: 07104-232376, Website: www.ycce.edu

Department of Mechanical Engineering

Minutes of Meetings 32nd BoS Meeting



Agenda No. 32.01
Welcome of new members
Dr J.P.Giri welcomed all BoS experts: Dr. Y. M. Puri Professor, Department of Mechanical Engineering, VNIT, Nagpur, Dr. A. S. Dhoble, Associate Professor, Department of Mechanical Engineering, VNIT, Nagpur and Mr. Shree Jamdar, Executive Director, Kinetic Gears Ltd., Nagpur

Agenda No. 32.02
Installation of Member Secretary
Dr. Shrikant Jachak was nominated as New Member Secretary by Chairman BoS, Mechanical Engineering.

Agenda No. 32.03
Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.

The minutes of previous 31st BoS meeting held on Saturday 8th th July 2023 were already circulated to all members. The ATR of the previous meeting has been discussed with BoS members. After confirmation, Chairman asked to accept the minutes of the meeting Dr. S.S. Chaudhari accepted the minutes. Prof. V. M. Korde seconded it. The minutes were Unanimously accepted.

Agenda No. 32.04
A] To discuss and finalize the Scheme of Examination SoE 2023 and syllabi of all 13 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. To approve SoE23 and all syllabi of B.Tech second to final Year.

B] To discuss and finalize the Scheme of Examination SoE 2022 and syllabi of all 12 Undergraduate programmes framed AND to approve SoE22 and all syllabi of B. Tech Third to final Year .

The Eighth Curriculum development workshop in Mechanical Engineering was organized 8th January 2024 in the Earth moving laboratory of the Mechanical Engineering department at 11:30 AM. Dr. Y.M.Puri, VNIT Nagpur, Dr. A.S. Dhoble, VNIT Nagpur and Dr. M.S. Kotambkar, VNIT Nagpur were the subject experts for this workshop.
In the Curriculum development workshop, proposed SoE-2023, as per NEP-2020 was discussed at length and approved by incorporating the suggestions of the experts. National Education Policy 2020 (NEP-2020) which has particular emphasis on the development of the creative potential of each individual student was discussed. Principle of NEP-2020, that education must develop cognitive capacities - both the 'foundational capacities 'of literacy and numeracy and 'higher-order' cognitive capacities, such as critical thinking and problem solving is taken into consideration for the up gradation of the overall syllabus of Mechanical Engineering from Third Semester of B. Tech. to Eighth semester of B. Tech in Mechanical Engineering.
This agenda was proposed for the approval by the Chairman. Dr. S. S. Chaudhari accepted the proposal and Prof. V. M. Korde seconded the agenda. The SoE was unanimously accepted and approved.

Agenda No. 32.05

To discuss and suggest the action taken on

- **Co/Po attainment of subjects taught in Odd semester 2023-24**
  Institution is shifting all its processes on a new Information System Software, due to which, we are experiencing slight delay in compilation of the information hence not able to complete the Co/Po attainment process. We have done the attainment of the internal exams but final analysis is still in process.
- **Result analysis of subjects taught in previous semester**
  Institution is shifting all its processes on a new Information System Software, due to which, we are experiencing slight delay in compilation of the information hence not able to present the result analysis.

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

Sr. No.	Stakeholder	Feedback	Action Taken
1.	Parent	Subjects related to advances in Mechanical engineering should be added.	All the suggestions given by stake holders are incorporated in the curriculum and
2	Alumni	1. Experiential learning in the form of more site/ industrial visit should be	

		arranged.	approved by BoS in Mechanical Engineering.
		2. Industry based courses should be introduced in the scheme.	
3	**Student**	Courses including current practices and innovative application should be started.	
4	**Faculty**	Changes required in existing syllabus were suggested.	

- **In Sem, End Sem and Exit feedback on Teaching Learning & curriculum**
  Feedback analysis report of Odd term 2023-24 has been discussed with BoS Experts. (Feedback below 3.25 (65%))

Sr. NO	**III**	**V**	**VII**
<65%	**NIL**	**NIL**	**NIL**

Agenda No. 32.06

To discuss and suggest the minor changes in the syllabi of various courses in B. Tech 2022 & B. Tech 2023 Schemes of Undergraduate and Post graduate programs conducted under the Board.

The changes proposed in the CDW by the experts were already updated. Hence No corrections and amendments were proposed by any members in the syllabi of various courses in B. Tech 2022 & B. Tech 2023 of the Undergraduate and of Post graduate programs.

Agenda No. 32.07

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.

For the up gradation of the digital library, Google form was circulated among the faculty members of department of Mechanical engineering and literature source was updated. The information regarding K-Nimbus (RTMNU) platform was also discussed. The agenda was accepted unanimously by the members.

Agenda No. 32.08

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

The agenda was already discussed in the curriculum development workshop and hence no other corrections and amendments were proposed by any member.

Agenda No. 32.09

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. Secondly the members opined that this particular agenda is in the purview of the Academic Council.

Agenda No. 32.10
To discuss and propose the new courses/MOOCS received from the faculty for inclusion in the curriculum.
Coursera Course on Supply chain Management is already run by the department. No corrections and amendments were proposed by any member.

Agenda No. 32.11
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 2023-24 .

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 2023-24 will be decided after the notification received from CoE.

Agenda No. 32.12
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 2023-24

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

Agenda No. 32.13
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 2023-24.

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 2023-24 and will be decided after the notification received from CoE.

Agenda No. 32.14
Preparation of Electronic question Bank UG courses according to B.Tech SoE 2022 & 2023. To review solutions to all questions of Electronic Question Banks for all courses. To review the creation and dissemination of content developed by senior faculty in AY 2022-23 and also propose the names of content developers in AY 2023-24.

Prof. V. M. Korde and Prof. M.S.Tufail were assign to prepare question Bank for UG Courses.

Agenda No. 32.15

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. 32.16
To discuss and propose scheme for Minor and Honor course and its syllabus.

Multidisciplinary courses were already decided in the CDW. No suggestions were proposed by any members.

Agenda No. 32.17
Any other matter with the permission of the Chair.

No other matter was discussed by the members.

Dr. J.P.Giri	Dr.S.R.Jachak
Chairman	Member Secretary
BoS in Mechanical Engineering	BoS in Mechanical Engineering

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SoE No. ME-202.1

B.TECH SCHEME OF EXAMINATION 2020-21

(Revised Scheme of Examination w.e.f. 2022-23 onward)

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
Chairperson	Dean (Acad. Matters)	Date of Release	Version

Applicable for AY 2022-23 Onwards

Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

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SoE No. ME-202.1

B.TECH SCHEME OF EXAMINATION 2020-21

(Revised Scheme of Examination w.e.f. 2022-23 onward)

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	

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
Chairperson	**Dean (Acad. Matters)**	**Date of Release**	**Version**

Applicable for AY 2022-23 Onwards

Nagar Yuwak Shikshan Sanstha's

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SoE No. ME-202.1

B.TECH SCHEME OF EXAMINATION 2020-21

(Revised Scheme of Examination w.e.f. 2022-23 onward)

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**				

*** Refure list Open Elective- I & II**

**** Refure list Open Elective- III & IV**

Audit Courses														
1	6	HS	AU2129	YCCE 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**

Chairperson	Dean (Acad. Matters)	June 2022	1.05
		Date of Release	Version

Applicable for AY 2022-23 Onwards

Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

SoE No. ME-202.1

B.TECH SCHEME OF EXAMINATION 2020-21

(Revised Scheme of Examination w.e.f. 2022-23 onward)

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 Recrutment 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 : Comuter Aidded Design and Manufacturing
12	7	PE-III	ME2424	PE III : Lab:- Comuter Aidded 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 : Sysnthesis 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 activitied decided by course teacher, 4 marks on class attendance

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

		June 2022	1.05
Chairperson	**Dean (Acad. Matters)**	**Date of Release**	**Version**

Applicable for AY 2022-23 Onwards

Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

SoE No. ME-202.1

B.TECH SCHEME OF EXAMINATION 2020-21

(Revised Scheme of Examination w.e.f. 2022-23 onward)

Mechanical Engineering

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Eigth 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 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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Hingna Road, Wanadongri, Nagpur - 441 110
Ph.: 07104-267919, 264626, 329269, 329260 Fax: 07104-262676, Website: www.ycce.edu

Department of Electrical Engineering

Date: 24/07/23

Minutes of 32st BoS Meeting dated on Saturday 22nd July 2023

32st Meeting of BoS of Electrical Engineering was held on Saturday 22nd July 2023.
It was chaired by Dr.S.G.Kadwane, Chairman BoS. The following members were present.

S.N.	Name	S.N.	Name
1	Dr.S.G.Kadwane	18	G.C.Gondhalekar
2	Dr.V.S.Kale	19	P.S.Shete
3	Er.Pravin Palkar	20	B.S.Sudame
4	Dr.R.M.Moharil	21	S.L.Tiwari(Tripathi)
5	Dr.P.M.Meshram	22	U.V.Waghmare
6	Dr.S.P.Adhau		
7	R.N.Nagpure		
8	Dr.S.S.Gokhale		
9	P.S.Patil		
10	Dr.S.P.Gawande		
11	S.B.Rewatkar(Kewte)		
12	T.D.Tembhekar(Sakhare)		
13	Xma R.Pote		
14	V.R .Doifode		
15	J.M.Kumbhare(Dhakate)		
16	Dr.Sarika.D.Patil		
17	Dr.S.R.Gaigowal		

Name	Name
Dr.S.S.Ambekar	N.S.Padole
Dr.Ritesh Keshri	A.S.Lilhare
Er.Rahul Nagpure	N.T.Sahu(Shrirao)
Dr.B.Y.Bagde	
Akshay Kadu	

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Department of Electrical Engineering

Minutes of 32st BoS Meeting

Agenda No. 32.01
Welcome of new members
Dr S.G.Kadwane welcomed all BoS experts viz., Dr.V.S.Kale,Department of Electrical Engineering, VNIT, Nagpur, Er. Pravin Palkar, Director,Palkar Industries,Nagpur. Departmental BoS members were also welcomed by the Chairman.

Agenda No. 32.02
Installation of member Secretary
It has been decided to retain Mrs. Xma R.Pote as Member Secretary BoS for the session 2023-24.

Agenda No. 32.03
Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.
The minutes of previous meeting no. 31 held on Saturday 28th January 2023 were already circulated to all members. The ATR of previous meeting have been discussed with BoS members. (Annexure 32.03). 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. 32.04

To discuss and finalize the Scheme of Examination SoE 2023 of all 13 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 and Post graduate programs in VLSI and Data Science and Automation & Robotics, conducted under the respective boards Board. To approve SoE23 and all syllabi of B.Tech I Year .

- NEP 20 Guidelines, issued by Government of Maharashtra through GR No: NEP-2022/(67/23) / DTE-2 dated 04.07.2023**(Annexure 32.04)**

Agenda No. 32.05
To discuss and suggest the action taken on

- **Co/Po attainment of subjects taught in previous semester.** (Annexure 32.04)
  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.

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Department of Electrical Engineering

- **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

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

S.N.	Stakeholder	Feedback	Action Taken
1.	Parent	More focus towards weak students is required.	1.Faculty advisors are allotted to students for one to one communication. 2.Different activities are given to students to improve understanding and writing practice.
2	Alumni	1. Course related to recent technology or innovations to be included.	1. The subject of Hybrid Electric Vehicles ,Design of Photovoltaic system 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 on Electrical Wiring and PCB design , Diesel Generator were 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 Micro grid 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.

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	In Sem
VI	12/15	03/15	NIL	NIL

Agenda No. 32.06

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.

- No changes in syllabus were suggested by the faculty members

Agenda No. 32.07

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 Under-Graduate and Post Graduate programs

Agenda No. 32.08

To discuss and approve the list of experiments, wherever there is a change, in the labora ory 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. 32.09

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. 32.10

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

No suggestions were proposed by any members

Agenda No. 32.11

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 2023-24

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

Agenda No. 32.12
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 2023-24.
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 2023-24 will be decided after the notification received from CoE.

Agenda No. 32.13
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 2023-24.

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 2023-24 will be decided after the notification received from CoE.

Agenda No. 32.14
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

- Electronic Question Bank for SoE 2020 is ready and SoE 2022 is in process
- Solutions to Electronic Question Banks is in process.

Agenda No. 32.15
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. 32.16
To discuss and propose scheme for Minor and Honor course and its syllabus.
To Discuss and propose Certificate courses and value-added courses in 2023-24.

- The scheme for Minor and Honor was presented before the BoS Members and confirmed.

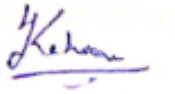
SN	Dept.	TITLE OF COURSE	Sem	COURSE HOURS	MODE OF TRAINING	DATES OF CONDUCTION & TOTAL HOURS IN COURSE	Number of Students expected to attend the CERT / VAC	Remarks
1	EL	Diesel Generator	3	30	Offline	August-September 2023	55	-
2	EL	Industrial safety and protective devices	3	30	Offline	August-September 2023	55	-

PLANNING OF CERTIFICATE & VALUE ADDED COURSES Planned BY DEPARTMENTS IN EVEN AY 23-24

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	30	Offline	February to March 2024	40	
2	EL	Estimation and costing of Electrical Equipment	4	30	Offline	April-May 2024	35	
3	EL	Testing and Maintenance of Electrical equipments	4	30	Offline	May 2024	35	

Agenda No. 32.17
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

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Department of Electrical Engineering

{BoS}

Date:20 January 2024

33th Meeting of Board of Studies(Thursday 20/01/2024)

BoS Members

S.N.	Name	Signature	S.N.	Name	Signature
1	Dr.S.G.Kadwane		20	Dr.S.R.Gaigowal	
2	Dr.R.M.Moharil		21	Prof.B.S.Sudame	
3	Dr.P.M.Meshram		22	Prof.S.L.Tiwari(Tripathi)	
4	Prof.R.N.Nagpure		23	Dr.Sarika.D.Patil	
5	Dr.S.S.Gokhale		24	Prof.P.B.Joshi	
6	Dr.B.Y.Bagde		25	Prof.U.V.Waghmare	
7	Prof.S.B.Rewatkar(Kewte)		26	Prof.R.S.Khonde	
8	Dr.S.P.Adhau		27	Prof.S.K.Mohod(Bhoyar)	
9	Prof.P.S.Patil		28	Prof.Akshay.D.Kadu	
10	Prof.T.D.Tembhekar(Sakhare)		29	Prof.Nivedita S.Padole	
11	Prof.N.T.Sahu(Shrirao)				
12	Prof.X.R.Pote				
13	Dr.A.P.Munshi				
14	Dr.S.P.Gawande				
15	Prof.A.S.Lilhare				
16	Prof.V.R .Doifode				
17	Prof.J.M.Kumbhare(Dhakate)				
18	Prof.P.S.Shete				
19	Prof.G.C.Gondhalekar				

BoS Experts

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

Minutes of 33rd BoS Meeting dated on Saturday 20th January 2024

33rd Meeting of BoS of Electrical Engineering was held on Saturday 20th January 2024

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	Prof.B.S.Sudame
2	Dr.R.M.Moharil	21	Prof.S.L.Tiwari(Tripathi)
3	Dr.P.M.Meshram	22	Prof.P.B.Joshi
4	Prof.R.N.Nagpure	23	Prof.U.V.Waghmare
5	Dr.S.S.Gokhale	24	Prof.R.S.Khonde
6	Dr.B.Y.Bagde	25	Prof.Nivedita S.Padole
7	Prof.S.B.Rewatkar(Kewte)	26	Dr.Ritesh Keshri(External)
8	Dr.S.P.Adhau		
9	Prof.X.R.Pote		
10	Dr.A.P.Munshi		
11	Dr.S.P.Gawande		
12	Prof.A.S.Lilhare		
13	Prof.V.R .Doifode		
14	Prof.J.M.Kumbhare(Dhakate)		
15	Prof.P.S.Shete		
16	Dr.S.R.Gaigowal		

Following members has been permitted leave of absence

1. Dr.S.S.Ambekar
2. Dr.V.S.Kale
3. Er.Pravin Palkar
4. Akshay.D.Kadu
5. T.D.Tembhekar(Sakhare)
6. P.S.Patil
7. Dr.Sarika.D.Patil
8. N.T.Sahu(Shrirao)

Minutes of Meetings 33rd BoS Meeting

Agenda No. 33.01

Welcome of new members

Dr S.G.Kadwane welcomed BoS expert ,Dr. Ritesh Keshri Assistant Professor, Department of Electrical Engineering, VNIT, Nagpur, Departmental BoS members were also welcomed by the Chairman.

Agenda No. 33.02

Installation of member Secretary

It has been decided to retain Mrs. Xma Pote as Member secretary BoS for the session 2023-24.

Agenda No. 33.03

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

The minutes of previous meeting no.32 held on Saturday 22 July 2023 were already circulated to all members. The ATR of previous meeting have been discussed with BoS members. (Annexure A). After confirmation, Chairman asked to accept the minutes of meeting.

Agenda No. 33.04

A] To discuss and finalize the Scheme of Examination SoE 2023 and syllabi of all 13 Undergraduate programmes, framed as per NEP 20 Guidelines, issued by Government of Maharashtra through GR No: NEP2022/(67/23) / DTE-2 dated 04.07. To approve SoE23

B] To discuss and finalize the Scheme of Examination SoE 2022 and syllabi of all 12 Undergraduate programmes framed and to approve SoE22 and all syllabi of B.Tech Third to final Year

- Scheme of Examination SoE 2022 with syllabus (Annexure B) and Scheme of Examination SoE 2023 (Annexure C) were presented and confirmed by BoS members with minor suggested corrections

Agenda No. 33.05

To discuss and suggest the action taken on

- **Co/Po attainment of subjects taught in Odd semester 2023-24**
  Institution is shifting all its processes on a new Information System Software, due to which, we are experiencing slight delay in compilation of the information hence not able to complete the Co/Po attainment process. We have done the attainment of the internal exams but final analysis is still in process.
- **Result analysis of subjects taught in previous semester**
  Institution is shifting all its processes on a new Information System Software, due to which, we are experiencing slight delay in compilation of the information hence not able to present the result analysis.

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

S.N.	Stakeholder	Feedback	Action Taken
1.	Parent	Information regarding guidance for higher studies competitive exams and placement was demanded	Information regarding GATE guidance and YCAP ,CRT was elaborated by HoD.
2	Alumni	Industry based courses should be run.	Offered from new session
3	Student	1Courses including current practices and innovative application should be started.	Courses like Industrial safety, Electrical Energy Audit and Project Planning have been included in the curriculum
4	Faculty	Some topics to be rearranged in the subject 23EL1102 Basic Electrical Engineering	The suggested changes will be communicated in Minutes of meeting report to DAM Office.

- **In Sem, End Sem and Exit feedback on Teaching Learning & curriculum.**
  Feedback analysis report of Odd term 2023-24 has been discussed with BoS Experts. (Feedback below 3.25 (65%))

Sr. NO	**III**	**V**	**VII**
<65%	**NIL**	**1**	**NIL**

Action Taken: The concerned faculty members were called for counselling by a committee consisting of Principal, DAM and HoD and discussed the reasons behind less student feedback. Committee suggested the measures and necessary actions to improve the performance.

Agenda No. 33.06

To discuss and suggest the minor changes in the syllabi of various courses in B.Tech 2022 & B.Tech 2023 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 B.Tech 2022 & B.Tech 2023 of Undergraduate and Post graduate programs. The modifications were suggested in following subject was

- 23EL1102 Basic Electrical Engineering (By Dr.A.P.Munshi and Prof.Xma Pote)
- 23EL1101 Basic Electronics and Electrical Engineering (By Prof.S.S.Kewte)
  Annexure D

The BoS experts approved to make the suggested changes and incorporate the modifications.

Agenda No. 33.07

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. 33.08
To discuss and approve the list of experiments, wherever there is a change, in the laborat ory 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 B.Tech 2022 & B.Tech 2023 scheme 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. 33.09
To discuss and suggest the changes in the Academic Regulations governing the Undergrad uate 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. 33.10
To discuss and propose the new courses/MOOCS received from the faculty for inclusion in the curriculum.

For the academic session Even 2023-24, it has been decided to allot professional elective offered through Coursera for VI semester students. For this, "Energy Production, Distribution and Safety" 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. After successful completion of each module and laboratory work, student will receive certificate which have to submit for the grade allotment.

Agenda No. 33.11
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 2023-24
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 2023-24 will be decided after the notification received from CoE.

Agenda No. 33.12
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 2023-24.
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 2023-24will be decided after the notification received from CoE.

Agenda No. 33.13
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 2023-24.

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 2023-24 will be decided after the notification received from CoE.

Agenda No. 33.14
Preparation of Electronic question Bank UG courses according to B.Tech SoE 2022 & 2023. To review solutions to all questions of Electronic Question Banks for all courses.
To review the creation and dissemination of content developed by senior faculty in AY 2022-23 and propose the names of content developers in AY 2023-24.

Content development:
AY 2022-23
Dr.R.M.Moharil: EL2432 :Fundamentals of Smart Grid

AY 2023-24
Dr.S.P.Adhau - EL2413 :Electrical Machine Design
R.N.Nagpure - 22EL304 :Network Analysis
Dr.S.S.Gokhale- EL2304 : Electrical Drives

Agenda No. 33.15
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. 33.16
To discuss and propose scheme for Minor and Honor course and its syllabus.
B.Tech.Honor Program in Renewable Energy System has been offered in Session 22-23
B.Tech.Honor Program in PLC and Industrial Automation has been offered in Session 23-24

Agenda No. 33.17
Any other matter with the permission of the Chair.
It has been strongly recommended by external expert not to include professional elective in 8th semester for SoE 23 as students will be busy with Internship.

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

Xma R.Pote
BoS Member Secretary
Department of Electrical Engineering

Dr.S.G.Kadwane
Head and Chairman BoS
Department of Electrical Engineering

LIST OF ANNEXURES

1) Annexure - A: Action Taken Report on Previous BoS
2) Annexure - B: Scheme of Examination SoE 2022 with syllabus
3) Annexure - C: Scheme of Examination SoE 2023
4) Annexure - D: Minor changes in the syllabi of various courses in B.Tech 2022 & B.Tech 2023

Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

SoE No. EL-202.1

B.TECH SCHEME OF EXAMINATION 2020-21

(Revised Scheme of Examination w.e.f. 2022-23 onward)

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
Chairperson	Dean (Acad. Matters)	Date of Release	Version

Applicable for AY 2022-23 Onwards

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(Revised Scheme of Examination w.e.f. 2022-23 onward)

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

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B.TECH SCHEME OF EXAMINATION 2020-21

(Revised Scheme of Examination w.e.f. 2022-23 onward)

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	

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**
Chairperson	**Dean (Acad. Matters)**	**Date of Release**	**Version**

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(Revised Scheme of Examination w.e.f. 2022-23 onward)

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 Recrutment 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**
Chairperson	**Dean (Acad. Matters)**	**Date of Release**	**Version**

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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	
Eigth 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**

		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)
Hingna Road, Wanadongri, Nagpur - 441 110
Ph.: 07104-237919, 234623, 330249, 330300 Fax: 07104-232376, Website: www.ycce.edu

Department of Electronics Engineering

Boards of Studies in Electronics Engineering

Minutes of the Meeting No. 33

Meeting No. 33, **Date: 25th July 2023**

Meeting no. 33 of the Board of Studies in Electronics Engineering was held on 21th July 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**
2. **Dr.S.B.Badjate**
3. **Mr.Unmesh Oke**
4. **Mr.R.A.Deshmukh**
5. **Dr. R. D. Thakare**
6. **Dr.Pradnya P. Zode**
7. Dr. P. P. Zode
8. Dr.U.S.Ghodeswar
9. Dr.Mrs. P. P. Palsodkar
10. Dr.Mrs.R. S. Balpande
11. Dr.Mrs. M.N. Kalbande
12. Dr.Mr.P.M. Palsodkar
13. Dr.Ms.A.D.Tijare
14. Ms. P.A. Jadhav
15. Mr.A.B.Thatere
16. Mr. A.A.Peshettiwar
17. Dr.Mrs.Y.A.Gaidhani
18. Ms.P.R.Chaudhari
19. Dr. Mrs.T.G.Panse
20. Dr.P.A.Maturkar
21. Prof.M.S.Pawar
22. Dr.Y.A.Suryawanshi
23. Mrs.S.A.Dhondse
24. Mrs. Swati Mohod
25. Mrs. Swati Nitanavre
26. Mr.R.P.Kamdi

Leave of absence was granted to

1. **Dr.P.R.Deshmukh**
2. Dr.P.T.Karule
3. Dr.S.V.Rathkanthiwar
4. Dr.A.S.Khobragade
5. Mr.A.V.Gokhale
6. Mr.V.D. Alagdeve
7. Mr.K.G.Pande

The following agenda points were deliberated in the meeting

<table>
<tr><td>33.01</td><td>Welcome of members
Dr. R.D. Thakare welcomed all the BoS members in the department.</td></tr>
<tr><td>33.02</td><td>Installation of member Secretary
No Change</td></tr>
<tr><td>33.03</td><td>To confirm the minutes of 32st Meeting of BoS.
The minutes of the 32st Meeting of BoS in Electronics Engineering were placed on the table and confirmed unanimously.</td></tr>
<tr><td>33.04</td><td>To discuss and finalize the Scheme of Examination SoE 2023 of all 13 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 and Post graduate programs in VLSI and Data Science and Automation & Robotics, conducted under the respective boards Board. To approve SoE23 and all syllabi of B.Tech I Year.
SoEs according to NEP for Undergraduate programmes in Electronics Engineering, CSE(IoT) and VLSI design Technology were presented and approved.
SoE Postgraduate program in VLSI design was presented and approved.
Syllabus for 1st, 2nd, 3rd and 4th semester for all branches was shown and approved.</td></tr>
<tr><td>33.05</td><td>To discuss and suggest the action taken on
i) CO/PO attainment of subjects taught in 6th and 8th semester is as follows
The attainment is in process.
<table>
<tr><th rowspan="2">Weightage</th><th rowspan="2">Attainment Parameters</th><th colspan="2">PO1</th><th colspan="2">PO2</th><th colspan="2">PO3</th><th colspan="2">PO4</th><th colspan="2">PO5</th><th colspan="2">PO6</th><th colspan="2">PO7</th></tr>
<tr><th>T</th><th>A</th><th>T</th><th>A</th><th>T</th><th>A</th><th>T</th><th>A</th><th>T</th><th>A</th><th>T</th><th>A</th><th>T</th><th>A</th></tr>
<tr><td rowspan="2">80%</td><td rowspan="2">TH+PR</td><td>2.48</td><td>1.88</td><td>2.32</td><td>1.78</td><td>2.14</td><td>1.62</td><td>2.17</td><td>1.79</td><td>2.32</td><td>1.94</td><td>1.73</td><td>1.63</td><td>1.71</td><td>1.61</td></tr>
<tr><td colspan="2">75.70%</td><td colspan="2">76.79%</td><td colspan="2">75.48%</td><td colspan="2">82.46%</td><td colspan="2">83.42%</td><td colspan="2">93.77%</td><td colspan="2">93.92%</td></tr>
<tr><td rowspan="2">20%</td><td rowspan="2">Indirect (Surveys)</td><td>3.00</td><td>2.46</td><td>3.00</td><td>2.46</td><td>3.00</td><td>2.48</td><td>3.00</td><td>2.48</td><td>3.00</td><td>2.33</td><td>3.00</td><td>2.73</td><td>3.00</td><td>2.73</td></tr>
<tr><td colspan="2">82.00%</td><td colspan="2">82.00%</td><td colspan="2">82.67%</td><td colspan="2">82.67%</td><td colspan="2">77.67%</td><td colspan="2">91.00%</td><td colspan="2">91.00%</td></tr>
<tr><td rowspan="2"></td><td rowspan="2">Total</td><td>2.58</td><td>1.99</td><td>2.46</td><td>1.92</td><td>2.32</td><td>1.79</td><td>2.33</td><td>1.93</td><td>2.46</td><td>2.02</td><td>1.99</td><td>1.85</td><td>1.97</td><td>1.83</td></tr>
<tr><td colspan="2">77.16%</td><td colspan="2">78.06%</td><td colspan="2">77.34%</td><td colspan="2">82.51%</td><td colspan="2">82.01%</td><td colspan="2">92.93%</td><td colspan="2">93.03%</td></tr>
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<table>
<tr><th colspan="2">PO8</th><th colspan="2">PO9</th><th colspan="2">PO10</th><th colspan="2">PO11</th><th colspan="2">PO12</th><th colspan="2">PSO1</th><th colspan="2">PSO2</th></tr>
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1.75	1.45	1.80	1.44	2.26	2.08	2.26	2.15	1.86	1.46	1.83	1.57	2.53	1.92
82.59%		**79.54%**		**92.06%**		**95.21%**		**78.28%**		**85.49%**		**75.86%**	
3.00	2.52	3.00	2.54	3.00	2.57	3.00	2.52	3.00	2.57				
84.00%		**84.67%**		**85.67%**		**84.00%**		**85.67%**					
2.00	1.66	2.04	1.66	2.41	2.18	2.41	2.23	2.09	1.68	1.83	1.57	2.53	1.92
83.02%		**81.05%**		**90.46%**		**92.42%**		**80.40%**		**85.49%**		**75.86%**	

ii) Result analysis of subjects taught in previous semester

8th Sem 2021-22 B.E.(EE)		
EE2451	Major Project	98.62
EE2452	Extracurricular Activity Evaluation	100
6th sem B.Tech(EE) 2022-23		
GE2312	Fundamental of Economics	100
EE2351	Control system engineering	90.84
EE2352	Transmission lines and waveguides	93.13
EE2353	Digital communication	94.78
EE2354	Lab: Digital communication	100
EE2361	PE II: Internet of things	100
EE2363	PE II: Digital CMOS circuits	100
EE2365	PE II: Digital image processing	97.06
EE2367	PE II: Object oriented programming	93.75
EE2364	Lab: PE II Digital CMOS circuits(Elective II)	96.97
EE2362	Lab: PE II: Internet of things(Elective II)	100
EE2366	Lab: PE II: Digital image processing(Elective II)	100
EE2368	Lab: PE II: Object oriented programming(Elective II)	100
4th sem 2022-23 B.Tech(EE)		
GE2204	Advance Mathematical Techniques	93.43
EE2251	Electronic Circuits	89.47
EE2252	Lab: Electronic Circuits	99.28
EE2253	Microcontroller and its Applications	93.28
EE2254	Lab: Microcontroller and its Applications	99.28
EE2255	Analog Communication	90.15
EE2256	Lab.: Analog Communication	99.28
EE2257	Electromagnetic Fields	82.58
EE2258	Lab: Simulation Lab/Workshp Lab	99.28

4th sem 2022-23 B.Tech(IIOT)		
IIOT2251	Control system Engineering	98.53
IIOT2253	Mechatronics	98.51
IIOT2255	Microprocessor and interfacing	98.53
IIOT2257	Analog and Digital Communication	94.12
IIOT2252	Lab: Mechatronics	100
IIOT2254	Lab: Control system Engineering	100
IIOT2256	Lab: Microprocessor and interfacing	100

IIOT2258	Lab: Analog and Digital Communication	100
IIOT2259	Design Tool Lab 1	100
IIOT2260	Lab : Electronics Workshop	100

iii) Stake holders feedback on review and design of curriculum

Sr.No.	Stack Holders	Feedback	Action taken
1	**Employers**	According to the industry requirements, students should have knowledge about work culture in Industry.	• Guest lecture was organized for students by industry person.
2	**Alumni**	The latest technological aware ness should be given to students.	• VAC/CC on recent technologies in different areas were conducted like VLSI Design, Python programming, its applications and data science, Graphics programming etc.
3	**Parent**	More information is needed regarding student exchange program with VJTI Mumbai, COEP Pune and IIIT Nagpur.	• HoD has explained the process and criteria.
		Parents enquired about foreign higher studies.	• The parents were informed by Dr. S.V. Rathakanthiwar.
4	**Students**	Students demanded for Python theory	• Python theory is added in new SoE 23

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%
	IN SEM	IN SEM
IV	4/11	7/11
	36.36%	63.63%
VI	10/12	2/12
	83.33%	16.67%

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

- Minor changes in the syllabi of **IIOT2304 Data Analytics**
- Minor changes in the syllabi of **22IoT407 Microcontroller & its Applications**

33.07 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**

33.08 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 change**

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

- **No change**

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

- **No change**

33.11	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 2023-24. • **The panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs for End Semester Examination of Odd/EVEN Term 2023-24 was constituted.**
33.12	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 2023-24 • **The panel of paper setters, Moderators and Valuers for the various theory courses at Postgraduate programs for End Semester Examination of Odd/EVEN Term 2023-24 was constituted.**
33.13	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 2023-24. • **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 2023-24 was constituted.**
33.14	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 Banks for all courses are ready.**
33.15	To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses. • **No change.**

33.16	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 2023-24.
	• **Scheme for Minor an Honor course and its syllabus was proposed and approved for the following programmes**
	  • **Sensor Technology**
	  • **VLSI Design Technology**
	• **NPTEL based Honor Program for Cryptography, courses are as**
	  • **Machine Learning and Deep leaning: Fundamental and applications**
	  • **Cloud computing**
	VACs or Certificate courses to be conducted in 2023-24 as
	• **Graphics programming in "C".**
	• **VLSI Design.**
	• **Python Programming, its application & Data Science.**

33.17	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: **25 July 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	**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. Kuldeep Pande	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. Unmesh Oke**	Member
32	Postgraduate meritorious alumnus nominated by the Principal	**Mr.R.A.Deshmukh**	Member

NOTICE
{BoS}

Date:- 17th January 2024

Meeting No 34th of Board of Studies of Electronics Engineering Department is scheduled on Saturday, 20th **January 2024 at 10:00 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

Agenda No. 34.01
Welcome of new members

Agenda No. 34.02
Installation of member Secretary

Agenda No. 34.03
Confirmation of minutes of 33rd Meeting of BoS and action taken report on decisions/suggestions of the previous meeting.

Agenda No. 34.04
A] To discuss and finalize the Scheme of Examination SoE 2023 and syllabi of all 13 Undergraduate programs, framed as per NEP 20 Guidelines, issued by Government of Maharashtra through GR No: NEP-2022/ (67/23) / DTE-2 dated 04.07. To approve SoE23 and all syllabi of B. Tech second to final Year.
B] To discuss and finalize the Scheme of Examination SoE 2022 and syllabi of all 12 Undergraduate programs framed AND to approve SoE22 and all syllabi of B.Tech Third to final Year .

Agenda No. 34.05
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 Lear & curriculum.

Agenda No. 34.06
To discuss and suggest minor changes in the syllabi of various courses in B.Tech 2022 & B.Tech 2023 Schemes of Undergraduate and Post graduate programs conducted under the Board.

Agenda No. 34.07
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. 34.08
To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under-Graduate and Post Graduate programs.

Agenda No. 34.09
To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Postgraduate programs conducted under the Board.

Agenda No. 34.10
To discuss and propose the new courses/MOOCS received from the faculty for inclusion in the curriculum.

Agenda No. 34.11
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 2023-24.

Agenda No. 34.12
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 2023-24

Agenda No. 34.13
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 2023-24.

Agenda No. 34.14
Preparation of Electronic question Bank UG courses according to B.Tech SoE 2022 & 2023. To review solutions to all questions of Electronic Question Banks for all courses. To review the creation and dissemination of content developed by senior faculty in AY 2022-23 and propose the names of content developers in AY 2023-24.

Agenda No. 34.15
To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses.

Agenda No. 34.16
To discuss and propose scheme for Minor and Honor course and its syllabus.

Agenda No. 34.17
Any other matter with the permission of the Chair.

Dr.Pradnya Zode
BoS Member Secretary
Department of Electronics Engineering

Dr.R.D.Thakare
Head and Chairman
Department of Electronics Engineering

Minutes of 34th BoS Meeting dated on Saturday, 20th **January 2024**

34th Meeting of BoS of Electronics Engineering was held on Saturday, 20th **January 2024**.

It was chaired by Dr.R.D.Thakare, Chairman BoS. Following members were present.

S.N.	Name	S.N.	Name
1	**Dr.N.K.Chaudhary**	13	Mr. A.A.Peshettiwar
2	**Dr.S.B.Badjate**	14	Dr.Mrs.Y.A.Gaidhani
3	**Dr. R. D. Thakare**	15	Dr. Mrs.T.G.Panse
4	Dr.Pradnya P. Zode	16	Dr.P.A.Maturkar
5	Dr. P. P. Zode	17	Prof.M.S.Pawar
6	Dr.U.S.Ghodeswar	18	Dr.Y.A.Suryawanshi
7	Dr.Mrs. P. P. Palsodkar	19	Mrs.S.A.Dhondse
8	Dr.Mrs.R. S. Balpande	20	Mrs. Swati Nitanavre
9	Dr.Mrs. M.N. Kalbande	21	Mr.R.P.Kamdi
10	Dr.Mr.P.M. Palsodkar	22	Dr.P.T.Karule
11	Dr.Ms.A.D.Tijare	23	Mr.A.V.Gokhale
12	Ms. P.A. Jadhav	24	Mr.K.G.Pande

Following members has been permitted leave of absence

1. **Dr.P.R.Deshmukh**
2. **Mr.R.A.Deshmukh**
3. **Mr.Amar Akre**
4. Dr.S.V.Rathkanthiwar
5. Dr.A.S.Khobragade
6. Mr.V.D. Alagdeve
7. Mr.A.B.Thatere
8. Ms.P.R.Chaudhari
9. Mrs. Swati Mohod

Minutes of Meetings 34th BoS Meeting

Agenda No. 34.01

Welcome of new members

Dr. R.D. Thakare welcomed all the BoS members in the department.

Agenda No. 34.02

Installation of member Secretary

No Change

Agenda No. 34.03

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

The minutes of the 33rd Meeting of BoS in Electronics Engineering were placed on the table and confirmed unanimously.

Agenda No. 34.04

A] To discuss and finalize the Scheme of Examination SoE 2023 and syllabi of all 13 Undergraduate programs, framed as per NEP 20 Guidelines, issued by Government of Maharashtra through GR No: NEP-2022/ (67/23) / DTE-2 dated 04.07. To approve SoE23 and all syllabi of B. Tech second to final Year.

B] To discuss and finalize the Scheme of Examination SoE 2022 and syllabi of all 12 Undergraduate programs framed AND to approve SoE22 and all syllabi of B.Tech Third to final Year .

SoEs(22) along with SoEs according to NEP for Undergraduate programs in Electronics Engineering, CSE(IoT) and VLSI design Technology were presented and approved.

Syllabus for all semesters for all branches was shown and approved.

Agenda No. 34.05

To discuss and suggest the action taken on

- **Co/Po attainment of subjects taught in Odd semester 2023-24**
  Institution is shifting all its processes on a new Information System Software, due to which, we are experiencing slight delay in compilation of the information hence not able to complete the Co/Po attainment process. We have done the attainment of the internal exams but final analysis is still in process.
- **Result analysis of subjects taught in previous semester**
  Institution is shifting all its processes on a new Information System Software, due to which, we are experiencing slight delay in compilation of the information hence not able to present the result analysis.

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

7 th SEM- EE

Sr No.	Subject	*Total No of students*	External Pass	External Pass %
1	Digital System Design [EE2401]	*130.0*	126	96.92%
2	Lab.: Digital System Design [EE2402]	*130.0*	130	100%
3	PE III :Power Electronics [EE2412]	*41.0*	39	95.12%
4	PE III: Switching Theory & Finite Automata [EE2411]	*45.0*	44	97.78%
5	PE III: Wireless Sensor Network [EE2413]	*44.0*	44	100%

6	PE IV : Lab. Analog VLSI Design [EE2426]	*25.0*	25	100%
7	PE IV : Lab. Operating Systems [EE2428]	*38.0*	38	100%
8	PE IV : Lab. RF and Microwave [EE2424]	*30.0*	30	100%
9	PE IV : Lab. Wireless Communication [EE2422]	*37.0*	37	100%
10	PE IV: Analog VLSI Design [EE2425]	*25.0*	25	100%
11	PE IV: Operating Systems [EE2427]	*38.0*	38	100%
12	PE IV: RF and Microwave [EE2423]	*30.0*	29	96.67%
13	PE IV: Wireless Communication [EE2421]	*37.0*	37	100%
14	PE V: Industrial Automation [EE2431]	*35.0*	35	100%
15	PE V: Nano Electronics [EE2432]	*34.0*	32	94.12%
16	PE V: Optical Communication [EE2433]	*35.0*	35	100%
17	PE V: RF Circuit Design [EE2434]	*26.0*	26	100%
18	PE-VI: Biomedical Instrumentation [EE2443]	*37.0*	37	100%
19	PE-VI: Computer Organization [EE2444]	*31.0*	31	100%
20	PE-VI: Micro Electro Mechanical Systems (MEMS) [EE2442]	*35.0*	35	100%
21	Mini Project [EE2409]	*130.0*	130	100%
22	Campus Recrutment Training (CRT) [EE2410]	*130.0*	130	100%
23	PE VI : Introduction to Remote Sensing and Image Analysis [EE2445]	*27.0*	26	96.3%

5th SEM- EE

Sr No.	Subject	Total No of students	External Pass	External Pass %
1	Fundamentals of Management [GE2311]	124.0	122	98.39%
2	Digital Signal Processing [EE2301]	124.0	99	79.84%
3	Lab: Digital Signal Processing [EE2302]	124.0	124	100%
4	Analog Integrated Circuit & its Application [EE2303]	124.0	108	87.1%
5	Lab: Analog Integrated Circuit & its Application [EE2304]	124.0	124	100%
6	Industry Visit and its report [EE2310]	124.0	124	100%
7	PE I: Computer Communication Network [EE2311]	29.0	23	79.31%
8	PE I: Lab. Computer Communication Network [EE2312]	29.0	29	100%
9	PE I: Embedded System [EE2313]	34.0	31	91.18%
10	PE I: Lab. Embedded System [EE2314]	34.0	34	100%
11	PE I: Algorithm & Data Structure [EE2315]	30.0	30	100%
12	PE I: Lab. Algorithm & Data Structure [EE2316]	30.0	30	100%
13	PE I: Applied Machine Learning [EE2317]	31.0	29	93.55%
14	PE I: Lab. Applied Machine Learning [EE2318]	31.0	31	100%
15	OE I: Database System Essential [CSE2331]	10.0	9	90%
16	OE I: Introduction to DBMS [CT2325]	13.0	13	100%
17	OE-I Introduction to Salesforce [CT2329]	13.0	13	100%
18	OE-I : Building Services Engineering [CV2331]	1.0	1	100%
19	OE-I : Construction Techniques [CV2332]	2.0	2	100%
20	OEI:Renewable Energy Generation System [EL2311]	1.0	1	100%
21	OEI:Testing and Maintenance of Electrical Machines [EL2313]	1.0	1	100%
22	OE I : Numerical Solution of Partial Differential Equations [GE2313]	1.0	1	100%
23	OE I: Combinatorics [GE2314]	1.0	1	100%
24	OE I: Electronic Materials and Applications [GE2315]	1.0	1	100%
25	OE I: Introduction of German Language [GE2317]	8.0	8	100%
26	OE I: Introduction to Spanish Language [GE2319]	8.0	8	100%
27	OE I: Industry 4.0 [IT2321]	13.0	13	100%
28	OE I: Core JAVA [IT2322]	14.0	14	100%
29	OE I : Operations Research Techniques [ME2331]	1.0	1	100%
30	OE I: Robotics and Subtractive Manufacturing [ME2335]	1.0	0	0%
31	OE II: Introduction to OS Concepts [CSE2344]	9.0	9	100%
32	OE II: Introduction to Cloud Computing [CSE2343]	15.0	13	86.67%
33	OE II: Internet Technology [CT2333]	14.0	14	100%
34	OE II: Current Trends and Technologies [CT2335]	14.0	14	100%

35	OE II : Elements of Earthquake Engineering [CV2341]	1.0	1	100%
36	OE II : Introduction to Finite Element Method [CV2342]	1.0	1	100%
37	OE II:Electrical Energy Audit and Safety [EL2321]	1.0	1	100%
38	OE II: Power System Engineering [EL2323]	1.0	1	100%
39	OE-II: Introduction to French Language [GE2320]	8.0	8	100%
40	OE-II: Green Chemistry and Sustainability [GE2321]	2.0	2	100%
41	OE-II: Introduction to Japanese Language [GE2322]	6.0	6	100%
42	OE II: Innovation & Entrepreneurship [GE2323]	1.0	1	100%
43	OE-II: Probability Theory and Statistical Inference [GE2324]	1.0	1	100%
44	OE II: Information Security [IT2332]	11.0	10	90.91%
45	OE II: Concepts in Web Programming [IT2333]	14.0	14	100%
46	OE II : Reliability Engineering [ME2342]	1.0	1	100%
47	OE II : Project Evaluation & Management [ME2344]	1.0	1	100%
48	OE I: Introduction to Data Science [AIDS2321]	13.0	13	100%
49	OE I: Multimedia Design [CSD2332]	11.0	10	90.91%
50	OE I: Essentials of IT [CSE2333]	10.0	9	90%
51	OE I: Fuzzy Set theory, Arithmetic and Logic [GE2326]	1.0	1	100%
52	OE II: Foundations of AI [AIDS2331]	12.0	12	100%
53	OE II: Virtual Reality [CSD2342]	9.0	9	100%
54	OE II: Laser Technology and Applications [GE2328]	2.0	2	100%

V th SEM -IIOT

Sr No.	Subject	Total No of students	External Pass	External Pass %
1	IoT Communication Network [IIOT2301]	68.0	65	95.59%
2	Microcontroller & its Applications [IIOT2302]	68.0	66	97.06%
3	Lab. : Microcontroller & its Applications [IIOT2303]	68.0	68	100%
4	Data Analytics [IIOT2304]	68.0	68	100%
5	Lab.: Data Analytics [IIOT2305]	68.0	68	100%
6	Object Oriented Programming [IIOT2306]	68.0	63	92.65%
7	Lab.: Object Oriented Programming [IIOT2307]	68.0	68	100%
8	CNC and Robotics [IIOT2308]	68.0	68	100%
9	PE-I: Industry 4.0 and Smart Systems [IIOT2312]	33.0	33	100%
10	PE-I: Advanced Microprocessor [IIOT2313]	35.0	31	88.57%
11	Industrial Visit [IIOT2310]	68.0	68	100%

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

Sr.No.	Stack Holders	Feedback	Action taken
1	**Employers**	Identify key trends, emerging technologies, and the most popular skills.	• Guest lecture was organized for students by industry person for trends, emerging technologies, and the most preferred skills.
2	**Alumni**	•Hands-on approach enhances their problem-solving skills and prepares them for the challenges they may face in their career. •Invite industry experts to deliver guest lectures or conduct workshops.	• VAC/CC on recent technologies in different areas was conducted like VLSI Design, Python programming, its applications and data science, Graphics programming etc. • Guest lecture was organized for students by industry person.
3	**Parent**	Industry aligned course should be added	• Industry aligned course is added in SoE
4	**Students**	Hands on training should be given	• All VAC courses were conducted hands on.

- **In Sem, End Sem and Exit feedback on Teaching Lear & curriculum.**
  Feedback analysis report of Odd term 2023-24 has been discussed with BoS Experts. (Feedback below 3.25 (65%))

Sr. NO	III	V	VII
<65%	NIL	NIL	NIL

Agenda No. 34.06

To discuss and suggest minor changes in the syllabi of various courses in B.Tech 2022 & B.Tech 2023 Schemes of Undergraduate and Post graduate programs conducted under the Board.

No Change

Agenda No. 34.07

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

Agenda No. 34.08

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 change

Agenda No. 34.09

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

No change

Agenda No. 34.10

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

No change

Agenda No. 34.11

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 2023-24.

The panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs for End Semester Examination of EVEN Term 2023-24 was constituted.

Agenda No. 34.12

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 2023-24

The panel of paper setters, Moderators and Valuers for the various theory courses at Postgraduate programs for End Semester Examination of EVEN Term 2023-24 was constituted.

Agenda No. 34.13

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 2023-24.

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 2023-24 was constituted.

Agenda No. 34.14

Preparation of Electronic question Bank UG courses according to B.Tech SoE 2022 & 2023. To review solutions to all questions of Electronic Question Banks for all courses. To review the creation and dissemination of content developed by senior faculty in AY 2022-23 and propose the names of content developers in AY 2023-24.

Electronic Question Banks for all courses are ready.

Agenda No. 34.15

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

No change.

Agenda No. 34.16

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 2023-24.

Scheme for Minor an Honor course and its syllabus was proposed and approved for the following programs.

- VLSI Design Technology
- Sensor Technology
- Internet of Things (IoT)

Agenda No. 34.17

Any other matter with the permission of the Chair.

Course on FPGA Design for Embedded Systems Specialization from Coursera is allotted to 20 students based on SGPA of 6^{th} semester.

The meeting ended with thank to chair.

Dr.Pradnya Zode
BoS Member Secretary
Department of Electronics Engineering

Dr.R.D.Thakare
Head and Chairman
Department of Electronics Engineering

Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

SoE No. EE-202.1

B.TECH SCHEME OF EXAMINATION 2020-21

(Revised Scheme of Examination w.e.f. 2022-23 onward)

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 Semster														
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**

Chairperson	Dean (Acad. Matters)	June 2022	1.05
		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)

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				

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

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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SoE No. EE-202.1

B.TECH SCHEME OF EXAMINATION 2020-21

(Revised Scheme of Examination w.e.f. 2022-23 onward)

Electronics 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 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 Processsing
	6	PE II	EE2366	**Lab:**PE II:Digital Image Processsing
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	

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
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SoE No. EE-202.1

B.TECH SCHEME OF EXAMINATION 2020-21

(Revised Scheme of Examination w.e.f. 2022-23 onward)

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 Recrutment 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

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**
Chairperson	**Dean (Acad. Matters)**	**Date of Release**	**Version**

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SoE No. EE-202.1

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(Revised Scheme of Examination w.e.f. 2022-23 onward)

Electronics Engineering

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Eigth 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**
Chairperson	**Dean (Acad. Matters)**	**Date of Release**	**Version**	

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Hingna Road, Wanadongri, Nagpur - 441 110
Ph.: 07104-242919, 242623, Fax: 07104-242376, Website: www.ycce.edu
E-mail : principal@ycce.edu, info@ycce.edu

Department of Electronics & Telecommunication Engineering

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.

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.

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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%

Approved By: BoS Electronics & Telecommunication Engg.

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	• 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	• 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	• 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

		Must include proper training in MATLAB & Simulink	Through Value added and Certification course initiated for the students from 3rd sem itself they get appropriate training on MATLAB & Simulink
		Provide the software classes	YCAP is initiated from 3rd 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**	Programming languages, Entrepreneurship related subjects should be added.	• Subject like Object Oriented Programming ,Algorithm and data structure, Python etc. were included in curriculum • Already department conducted many workshops through enterpreneurship cell for students. Also we have facility of Enterprenurship cell for students including management subjects.
		Lab classes should be given more importance so that we learn practical knowledge and projects development.	• In every lab course we have mini project and most of the Major Projects are Industry aligned to improve practical knowledge of the students

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.

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.

Nagar YuwakShikshan Sanstha's
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(Accredited 'A' Grade by NAAC with a score of 3.25)
Hingna Road, Wanadongri, Nagpur - 441 110
Ph.: 07104-242919, 242623, Fax: 07104-242376, Website: www.ycce.edu
E-mail : principal@ycce.edu, info@ycce.edu

Department of Electronics & Telecommunication Engineering

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

Approved By: BoS Electronics & Telecommunication Engg.

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Department of Electronics & Telecommunication Engineering

YCCE/ET/FORMAT/BOS/MOM/29

Minutes of the 29th BOS Meeting

Date: 20th January 2024

The 29th meeting of the Board of Studies in Electronics & Telecommunication Engineering was held on Saturday, 20th January 2024 at 10:30 am in the departmental Library ET, YCCE, and 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 college of Engineering, Nagpur	Absent
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	Absent	15	M.S.Ghute	Present
2	Dr.P.L.Zade	Present	16	S.S.Chiwande	Present
3	Dr.M.D. Chawhan	Present	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	Present	23	V.B.Niranjane	Present
10	Dr. N.D.Rehpade	Absent	24	A.A.Madankar	Absent
11	A.V.Choudhari	Absent	25	D.K.Thote	Present
12	N.A.Pande	Absent	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.

Leave of absence was granted to –

Sr. No.	Name
1	Dr.S.L.Badjate ,VC Nominee, Principal S. B .Jain college of Engineering, Nagpur
2	Dr. M. M. Mushrif ET,YCCE
3	Dr. N.D.Rehpade,ET,YCCE
4	A.V.Choudhari,ET,YCCE
5	N.A.Pande,ET,YCCE
6	Y. S. Kale, ET,YCCE
7	A.A.Madankar, ET,YCCE

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

29.01 Welcome of new members.
BoS Chairman Dr. M. S. Narlawar welcomed all BoS members.

29.02 Installation of member Secretary.
No changes

29.03 Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.
The minutes of the 28th BOS meeting held on, **22nd July 2023** in Electronics and Telecommunication Engineering Department were placed on the table and were confirmed unanimously.

29.04
A] To discuss and finalize the Scheme of Examination SoE 2023 and syllabi 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. To approve SoE23 and all syllabi of B.Tech second to final Year.
The Scheme of Examination SoE 2023 and syllabi 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 and approved by BoS experts.

BoS experts appreciated the efforts taken by the department to formulate the SoE as per the NEP 2020 guidelines defined by GoM.
The suggestions of BoS experts have been forwarded to Dean Academic Matters for further approval.

B] To discuss and finalize the Scheme of Examination SoE 2022 and syllabi of Electronics & Telecommunication Engineering Undergraduate programmes ,framed and to approve SoE22 and all syllabi of B.Tech Third to final Year .

The Scheme of Examination SoE 2022 and syllabi of Electronics & Telecommunication Engineering Undergraduate programmes, framed and SoE22 and all syllabi of B.Tech Third to final Year has been discussed and approved by BoS experts.

29.05 To discuss and suggest the action taken on

- **Co/Po attainment of subjects taught in Odd semester 2023-24**
  Institution is shifting all its processes on a new Information System Software, due to which, we are experiencing slight delay in compilation of the information hence not able to complete the Co/Po attainment process. We have done the attainment of the internal exams but final analysis is still in process.
- **Result analysis of subjects taught in previous semester**
  Institution is shifting all its processes on a new Information System Software, due to which, we are experiencing slight delay in compilation of the information hence not able to present the result analysis.

iii) Stake holders feedback on review and design of curriculum

S.N.	Stakeholder	Feedback	Action Taken
1	**Parents**	Number of subjects to be reduced for 3rd, 7th semester	Since 8th sem is completely based on industry internship so those subjects adjusted in remaining semesters hence number of subjects are more.
		Since number of subjects are more , syllabus to be diluted	Proposal for diluting the syllabi is proposed in BoS & CDW
		Students should get time for exam preparation	Preparation leave of 1 week is there before end semester exams. Academic calendar reflects the same. As far as MSE is concerned, preparation leave can't be given since syllabus is less.
		Prepare students for exam pattern	Students are given important questions and previous year question papers are also shared in their respective subject Google classroom
		Please keep 1 paper per day if possible.	In ESE, there is 1 paper per day but in MSE there are 2 papers on 1 or 2 days since only 5/6 working days are available for exam and number of subjects for 3rd semester are 7.
2	**Alumni**	Core subject must be focus on industry allied so that more Core	• For the year 2024 batch Core based companies like

		Companies should be visited to college for placements	Bluberry Semiconductor, Device Electronics, Makxenia, Zoho Corporation Ltd visited for placement and selected total more than 30 students for internship as well as placement.
		Courses related to the upcoming technologies as per company need should be added in the curriculum.	• Added recent technology courses like Machine Learning and Data Base Management in SoE 2022 & 2023
		More Focus should be teaching on subject according to industry needs and provide more industrial exposure in current Technologies	• Number of Industrial visits is organized • Mini Projects are given in all Lab subjects • Number of Work-shops with h • Value added courses are also organized every year
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	**Students**	Programming languages, Entrepreneurship related subjects should be added.	• Subject like Object Oriented Programming ,Algorithm and data structure, Python etc. were included in curriculum • Already department conducted many workshops through enterpreneurship cell for students. Also we have facility of Enterprenurship cell for students including management subjects.
		Lab classes should be given more importance so that we learn practical knowledge and projects development.	• In every lab course we have mini project and most of the Major Projects are Industry aligned to improve practical knowledge of the students

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

Feedback analysis report of Odd term 2023-24 has been discussed with BoS Experts. (Feedback below 3.25 (65%))

Sr. NO	III	V	VII
<65%	NIL	1	1

Action Taken: The concerned faculty members were called for counselling by a committee consisting of Principal, DAM and HoD and discussed the reasons behind less student feedback. Committee suggested the measures and necessary actions to improve the performance.

29.06 To discuss and suggest the minor changes in the syllabi of various courses in 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 2022 Schemes of the Undergraduate and Post graduate programs conducted under the Board.

29.07 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.

29.08 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.

29.09 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.

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

29.11 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 2023-24

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 2023-24 will be decided after the notification received from CoE.

29.12 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 2023-24

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 2023-24 will be decided after the notification received from CoE.

29.13 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 2023-24

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 2023-24 will be decided after the notification received from CoE.

29.14 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. To review the creation and dissemination of content developed by senior faculty in AY 2022-23 and also propose the names of content developers in AY 2023-24.

Preparation of Electronic question Bank with solution of UG courses according to B.Tech. SoE 2022 is in process.

Creation and dissemination of content developed in AY 2022-23

SN	Name of Senior Faculty	Course code and course Name	No. of units completed
1	Dr. M.M.Mushrif	ET 2301 Signal & Systems	06 units
2	Prof. R.P.Deshmukh	ET 2254 Analog Communication	03 units

Creation and dissemination of content developed in AY 2023-24

SN	Name of Senior Faculty	Course code and course Name	No. of units completed
1	Dr. P.L.Zade	ET 2401 RF & Microwave	In process
2	Dr.M.S.Narlawar	22ET1201 Digital Electronics & Logic Design	

29.15 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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Department of Electronics & Telecommunication Engineering

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

No changes were proposed for Honor course syllabi.

29.17 Any other matter with the permission of the Chair.

Following suggestions given by the Experts

i. Rather than uniformly distributing the students in all electives, more number of students should be allocated to the electives in demand.
ii. If option 1 is not practically possible then 3-4 electives out of six in the basket should be chosen as per the interest of students
iii. The elective in demand may be run in duplicate.
iv. The position of VEC and VSC in SoE should be flexible.
v. The subject like Fundamentals Management and Economics (HS) should be shifted from third semester to seventh semester.
vi. Instead of Marathi language (AEC-2) any other language should be introduced as Marathi is already learnt by most of the students.

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

Approved By: BoS Electronics & Telecommunication Engg.

Nagar Yuwak Shikshan Sanstha's

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SoE No. ET-202.1

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**
Chairperson	**Dean (Acad. Matters)**	**Date of Release**	**Version**

Applicable for AY 2022-23 Onwards

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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	
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**

		June 2022	1.05
Chairperson	Dean (Acad. Matters)	Date of Release	Version

Applicable for AY 2022-23 Onwards

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SoE No. ET-202.1

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	

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**
Chairperson	**Dean (Acad. Matters)**	**Date of Release**	**Version**

Applicable for AY 2022-23 Onwards

Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

SoE No. ET-202.1

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 Recrutment 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

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

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

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Chairperson	**Dean (Acad. Matters)**	**Date of Release**	**Version**

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Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

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SoE No. ET-202.1

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	
Eigth 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**

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

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Ph.: 07104-237919, 234623, 331249, 331250 Fax: 07104-232376, Website: ww.ycce.edu

Department of Computer Technology

NOTICE
31st Board of Studies Meeting

Date: 17th July 2023

The **31th** meeting of the Board of Studies in **Computer Technology** is scheduled on **22nd July 2023** at **11.00 A.M** 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 finalize the Scheme of Examination SoE 2023 of all CT and AIDS 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 and Post graduate programs in Data Science. To approve SoE23 and all syllabi of B.Tech I Year related to CT and AIDS discipline.

Agenda No. 31.05

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 holder's feedback on review and design of curriculum
iv In Sem, End Sem and Exit feedback on Teaching Lear & curriculum

Agenda No. 31.06

To discuss and suggest the minor changes in the syllabi of various courses in B.Tech 2022 & B.Tech 2022 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. 31.8

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

Agenda No. 31.9

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/ Massive Open Online 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 Odd Term 2023-24.

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 2023-24.

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 Term 2023-24.

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 2023-24.

Agenda No. 31.17

Any other matter with the permission of the Chair.

Dr. Prarthana A. Deshkar — **Member Secretary**
BoS, Deptt of Computer Technology

Dr. Rakhi D. Wajgi — **Chairperson**
BoS, Deptt. of Computer Technology

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Yeshwantrao Chavan College of Engineering
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Ph.: 07104-237919, 234623, 331249, 331250 Fax: 07104-232376, Website: ww.ycce.edu
Department of Computer Technology

Date:- 22nd July 2023

31st Meeting of Board of Studies(Saturday 22/07/2023)

BoS Members

Sr. No.	Name of Member	Signature
1.	Dr. Rakhi D. Wajgi	
2.	Dr. Manali M. Kshirsagar	*
3.	Dr. NileshSingh 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.Yenurkar	
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	
29.	Prachi Bainalwar	
30.	Sneha Sahare	
31.	Ashwini Gote	
32.	Shweta A. Gode	

*** Leave of absence granted**

BoS Experts

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	Academia	Leave of absence granted
2.	Mr. Ajit Dharmik, Director, 6 Simplex Software Solutions Pvt. Ltd., Nagpur	Industry	Present
3.	Mr. Vaibhav Deshpande, Assistant Professor, CE Dept. SVPCET, Nagpur	PG Alumni	present

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Department of Computer Technology

Minutes of 31st BoS Meeting conducted on Saturday 22nd July 2023

31st Meeting of BoS of Computer Technology was held on Saturday 22nd July 2023. It was chaired by Dr.R.D.Wajgi, Chairman BoS.

Agenda No. 31.01

Dr. R. D. Wajgi welcomed all BoS experts, Mr. Ajit Dharmik, Director 6Simplex pvt. Ltd. Nagpur, Dr. Vaibhav Deshpande, Alumnia and Assistant Professor, SVPCE.

Chairperson also welcomed all departmental BoS members.

Agenda No. 31.02

Installation of member Secretary

Dr. P. A. Deshkar is appointed as new BoS member secretary from the session 2023-24.

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 Friday 3rd February 2023 were already circulated to all members. The ATR of previous meeting have been discussed with BoS members. (Annexure A). After confirmation, Chairman asked to accept the minutes of meeting. Mr. Nikhil Mangrulkar accepted the minutes. Prof. Roshni Khedgaonkar seconded it. The minutes were then accepted.

Agenda No. 31.04

To discuss and finalize the Scheme of Examination SoE 2023 of CT and AIDS 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 and Post graduate programs MTech in Data Science, conducted under CT Board. To approve SoE23 and all syllabi of CT and AIDS related courses in B.Tech I Year.

- Suggestions in the SoE 2023 of Computer Technology Program
    a. One course 'Internet of Things' from professional elective I basket (PE I) should be swapped with 'Cloud Computing' from professional elective II basket (PE2)
    b. In the MDM baskets, instead of the course 'Operating System Concepts', course on 'Parallel Programming' should be added.
    c. Catchy titles for the courses can be used so as to get idea of courses like 'Introduction to Programming',
- Suggestions in the SoE 2023 of Artificial Intelligence and Data Science Program
    a. No Change
- Suggestions in the SoE 2023 of M.Tech. Data Science
    a. Nomenclature for pure lab courses should be 'Data Science Lab1' and 'Data Science Lab2'

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Department of Computer Technology

Agenda No. 31.05

To discuss and suggest the action taken on

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

Stakeholder	Suggestions given	Action taken
Alumni	• New technology courses should be there is SoE • More industry based courses is required	• PowerBI, Microstrategy is added • VAC on Cloud is planned for session 2023-24
Faculty	• Data Structures to be split into two courses DS and ADS • Unit 5 and 6 can be made more specific related to Memory organization and interrupt and i/o for CAO course. Only Introduction to pipelining and data hazards to included • Contents of Unit 2 and 3 of INLP are to be made in sequence	Changes are incorporated for session 2023-24
Student	Trending course on ML to be included	• ML using Tensorflow by Google is included from session 2023-24 as PE
Industry	Java and .net Full stack course to be added by Global Logic Hitachi	Java FDS and .Net FSD is included as elective in association with Global Logic Hitachi

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

S.N.	Semester	Pass %
1	IV	77.85
2	VI	87.59
3	VIII	100.00
4	IV(AIDS)	82.19

- **In Sem, End Sem and Exit feedback on Teaching Learning & 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**
IV	9/17	15/17	08/17	02/17	NIL	NIL	NIL	NIL
VI	08/11	10/11	03/11	01/11	01/11	NIL	NIL	NIL
IV(AIDS)	02/08	3/08	2/8	01/08	01/08	NIL	NIL	NIL

Agenda No. 31.06

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

Minor Changes were proposed and approved by the members in the course, 'Computer Architecture and Organization' of the B.Tech 2022 SoE of Artificial Intelligence and Data Science program.

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 Postgraduate Programs.

Agenda No. 31.8

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

In the list of experiments of the course Software Engineering in the SoE of B.Tech 2022 of undergraduate program, practical based on deployment of software, complete lifecycle of software, should be added.

Agenda No. 31.9

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 members.

Agenda No. 31.10

To discuss and propose the new courses/ Massive Open Online Courses (MOOCS received from the faculty) for inclusion in the curriculum.

- **New Industry aligned Professional electives Java full stack, .net full stack are included at VII semester offered by Global Logic Hitachi under train the trainer**
- **New Industry aligned electives Mobile OS (for AIDS) and Machine Learning using Tensorflow (for CT) by Google are introduced at V sem level**
- **Introduction to Logic Building and Programming is introduced at 1st year level for SoE23 for both CT and AIDS under Professional Core**

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 2023-24.

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 provided 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 2023-24.

The panel of paper setters, Moderators and Valuers for the various theory courses at Postgraduate programs that will be examined in End Semester Examination of Odd Term 2023-24 will be provided 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 Term 2023-24.

The panel of paper setters, Moderators and Valuers for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination of Odd Term 2023-24 will be provided 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.

Preparation of Electronic Question Bank for all semesters is ready. Solutions of 02courses are in process. EQB with Solution of newly introduced courses and PE is ongoing.

Agenda No. 31.15

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

No corrections and amendments were proposed by any members.

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 2023-24**.**

- The SoE of two honors program, 'Honors in Data Science' and 'Honors in Machine Learning' is modified and approved by the BoS members. Project activity is added at 7th semester level in both the SoEs. Also the course on 'research methodology and technical paper writing' is added in both the SoEs.
- From session 2023-24, department is going to float the Minor Program in 'Artificial Intelligence and Machine Learning'. The SoE of this new program is proposed in the meeting and is approved by the BoS experts.

To Discuss and propose certificate courses and value-added courses in session 2023-24.

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SN	Deptt.	TITLE OF COURSE	Sem	COURSE HOURS	MODE OF TRAINING	DATES OF CONDUCTION & TOTAL HOURS IN COURSE
1	CT	Data Storage and access through Cloud Technology	V	30	Online	From 6th August 2023 (every Saturday)

Agenda No. 31.17

Any other matter with the permission of the Chair.

NO.

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

Dr. Prarthana A. Deshkar
Member Secretary
BoS, Deptt of Computer Technology

Dr. Rakhi D. Wajgi
Chairperson
BoS, Deptt. of Computer Technology

LIST OF ANNEXTURES

Annexure A: Action taken report of 30th BoS Meeting

Nagar Yuwak Shikshan Sanstha's
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Department of Computer Technology

NOTICE
32nd Board of Studies Meeting

Date: 20th January 2024

The **32nd** meeting of the Board of Studies in **Computer Technology** is scheduled on **20th January 2024** at **10.30 A.M** in **Department of Computer Technology, YCCE, Nagpur**.

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 finalize the Scheme of Examination SoE 2023 of all 13 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 and Post graduate programs in VLSI and Data Science and Automation & Robotics, conducted under the respective boards Board. To approve SoE23 and all syllabi of B.Tech I Year .

Agenda No. 31.05

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 holder's feedback on review and design of curriculum
iv In Sem, End Sem and Exit feedback on Teaching Lear & curriculum

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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.

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Agenda No. 31.17

Any other matter with the permission of the Chair.

Dr. Prarthana A. Deshkar
Member Secretary
BoS, Deptt of Computer Technology

Dr. Rakhi D. Wajgi
Chairperson
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Department of Computer Technology

Date:- 22nd July 2023

31st Meeting of Board of Studies(Saturday 22/07/2023)

BoS Members

Sr. No.	Name of Member	Signature
1.	Dr. Rakhi D. Wajgi	
2.	Dr. Manali M. Kshirsagar	
3.	Dr. NileshSingh 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.Yenurkar	
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	
29.	Prachi Bainalwar	
30.	Sneha Sahare	
31.	Ashwini Gote	
32.	Shweta A. Gode	

*** Leave of absence granted**

BoS Experts

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	Academia	Leave of absence granted
2.	Mr. Ajit Dharmik, Director, 6 Simplex Software Solutions Pvt. Ltd., Nagpur	Industry	
3.	Mr. Vaibhav Deshpande, Assistant Professor, CE Dept. SVPCET, Nagpur	PG Alumni	

Minutes of 31st BoS Meeting conducted on Saturday 22nd July 2023

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, 331249, 331250 Fax: 07104-232376, Website: ww.ycce.edu

Department of Computer Technology

31st Meeting of BoS of Computer Technology was held on Saturday 22nd August 2022.
It was chaired by Dr.R.D.Wajgi, Chairman BoS.

Agenda No. 31.01

Dr. R. D. Wajgi welcomed all BoS experts, Dr. Adane, Ramdeobaba College of Engineering, Nagpur, Mr. Ajit Dharmik, Director 6Simplex pvt. Ltd. Nagpur, Dr. Vaibhav Deshpande, Alumni and Assistant Professor, SVPCE.

Chairperson also welcomed all departmental BoS members.

Agenda No. 31.02

NIL

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 finalize the Multidisciplinary Minor Tracks (MDM) in the Scheme of Examination SoE 2023, framed as per NEP 20 Guidelines, issued by Government of Maharashtra through GR No: NEP-2022/(67/23) /DTE-2 dated 04.07.2023.

1. Multidisciplinary Minor Track 1 in the domain of Cyber Security was proposed and approved by the experts
2. Multidisciplinary Minor Track 2 in the domain of 'Digital IT Support' was proposed and approved by the experts
3. Multidisciplinary Minor Track 3 in the domain of 'Project Management' was proposed and approved by the experts
4. Experts have suggested that Multidisciplinary Minor Track 4 should be based on the 'UI/UX Design' domain

Agenda No. 31.05

- **Co/Po attainment of subjects taught in Odd semester 2023-24**
  Institution is shifting all its processes on a new Information System Software, due to which, we are experiencing slight delay in compilation of the information hence not able to complete the Co/Po attainment process. We have done the attainment of the internal exams but final analysis is still in process.
- **Result analysis of subjects taught in previous semester**
  Institution is shifting all its processes on a new Information System Software, due to which, we are experiencing slight delay in compilation of the information hence not able to present the result analysis.

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

Stakeholder	Suggestions given	Action taken
Alumni Feedback	• Self learning should be there for the new technology courses • More industry based courses is required	• Coursera courses added as a PE II in the SoE 2020 of B.Tech • Honor and Minor programs on Full Stack is introduced from session 2023-24 under the 'Institutional Technical Hub. And the course contents are delivered by the Industry

		experts
Student Feedback	Advance topics are needed in the practical courses	• Complete practical list of the course 'Advance Web Technology' is changed according to suggestions from the industry experts • The advance topics like GitLab, Devops are added in the practical list of course 'Software Engineering'

- **In Sem, End Sem and Exit feedback on Teaching Learning & curriculum (No. of faculties scored feedback less than the set threshold value)**

Sr. NO	III	V	VII
<65%	NIL	1	NIL

Action Taken: The concerned faculty members were called for counselling by a committee consisting of Principal, DAM and HoD and discussed the reasons behind less student feedback. Committee suggested the measures and necessary actions to improve the performance.

Agenda No. 31.06

To discuss and suggest the minor changes in the syllabi of various courses in B.Tech 2020, 2022 & B.Tech 2023 Schemes of Undergraduate and Post graduate programs conducted under the Board (CT and AIDS).

1. Minor changes were suggested in the syllabus of course 'Big data and Hadoop' of the 7th semester course of the program B.Tech in AIDS. Experts have suggested to reframe the Unit I and Unit VI
2. Minor changes were suggested in the syllabus of 'Deep Learning' of the 7th semester course of the program B.Tech in AIDS
3. Experts have suggested to add some language independent tools for the course 'Introduction to Logic Building and Programming' ex : Scratch

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 Postgraduate Programs.

Agenda No. 31.8

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

1. In the list of experiments of the course Software Engineering in the SoE of B.Tech 2022 of undergraduate program, practical based on deployment of software, complete lifecycle of software, is added and approved by the experts
2. List of pure lab course, 'Advance Web Technology', in the SoE B.Tech 2022 of program AIDS is proposed and approved by the experts

3. In the list of experiments of the course Operating Systems in the SoE of B.Tech 2022 of undergraduate program, practical based on OpenMP, thread programming and shell scripting is added and approved by experts.

Agenda No. 31.9
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 members.

Agenda No. 31.10
To discuss and propose the new courses/ Massive Open Online Courses (MOOCS received from the faculty) for inclusion in the curriculum.

Coursera Course is added as a Professional Elective II in the SoE of B.Tech 2020. The name of the course is Programming with Javascript and React Basics.

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 2023-24.

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 2023-24 will be provided 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 Even Term 2023-24.

The panel of paper setters, Moderators and Valuers for the various theory courses at Postgraduate programs that will be examined in End Semester Examination of Even Term 2023-24 will be provided 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 Term 2023-24.

The panel of paper setters, Moderators and Valuers for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination of Even Term 2023-24 will be provided 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.

Preparation of Electronic question Bank for all semesters is ready. Solutions of few courses are ready and few courses partially ready. EQB with Solution of newly introduced courses and PE is ongoing.

Agenda No. 31.15

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

No corrections and amendments were proposed by any members.

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 2023-24**.**

1. Honor and Minor programs for the session 2023-24 are conducted by the 'Institutional Technical Hub'.
2. Honor and Minor programs are, B. Tech Honors in AWS and DevOps and B.Tech Minors in AWS and DevOps.

To Discuss and propose certificate courses and value-added courses in session 2023-24.

SN	Deptt.	TITLE OF COURSE	Sem	COURSE HOURS	MODE OF TRAINING	DATES OF CONDUCTION & TOTAL HOURS IN COURSE
1	CT	VAC on Programming and Logic Building	4th	30	Offline	24 March 2024 to 06 April 2024
2	CT	VAC on Core Competence Building	6th	30	Offline	10 Feb 2024 to 02 March 2024
3	CT	VAC on Entrepreneurship Skill Development	4th , 6th	30	Online + Offline	10 Feb 2024 to 02 March 2024

Agenda No. 31.17

Any other matter with the permission of the Chair.

NO.

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

Dr. Prarthana A. Deshkar

Dr. Rakhi D. Wajgi

Nagar Yuwak Shikshan Sanstha's

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SoE No. CT-202.1

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 Semster														
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 activitied decided by course teacher, 4 marks on class attendance

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

		June 2022	**1.05**
Chairperson	**Dean (Acad. Matters)**	**Date of Release**	**Version**

Applicable for AY 2022-23 Onwards

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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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(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: Essestials 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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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 Recrutment 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 Retrival 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 Recognization
	7	PE-IV	CT2422	PE IV: Lab: Pattern Recognization
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

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Computer Technology

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						L	T	P	Hrs		MSEs*	TA**	ESE	
Eigth 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**

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Ph.: 07104-237919, 234623, 329259, 329250 Fax: 07104-232376, Website: www.ycce.edu

Department of Information Technology

YCCE/IT/FORMAT/BOS/MOM/30 04/02/2023

Minutes of BOS Meeting

The **thirty First meeting** of the Board of Studies in **Information Technology** was held on Saturday**, 22th July 2023** at 12.00 noon onwards

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. Latesh Malik,, Prof. CSE GCOE, Nagpur	External Expert
2	Mr. Abhishek Nachankar, Member PG Alumni	External Expert

BoS Members

Sr. No.	Name
1.	Dr. R. C. Dharmik, Chairman
2.	Dr. U. H. Gawande
3.	Dr. K. K. Bhoyar
4.	Dr. N. R. Wankhade , Member Secretary
5.	Mr. M. K. Hadap
6.	Mr. B. U. Bawankar
7.	Mr. A. D. Gaikwad
8.	Ms. P. G. Jaiswal
9.	Mrs. S. S. Gugulothu
10.	Mr. S. S. Chavhan
11.	Ms. Kavita H. Gudadhe
12.	Ms. Warsha P. Sirskar
13.	Ms. Swapna M. Kamble
14.	Ms. ApurvaA. Bodkhe
15.	Ms. Rutuja B. Chirwatkar
16.	Ms. DivyaM. Kantode
17.	Ms. Vishakha D. Akhare
18.	Ms. Chandrayani N. Rokde
19.	Mr. Piyush G. Dhule

20.	Ms. Swapna D. Lokhande
21.	Ms. Pooja G. Dhawane
22.	Ms. Priti V. Matre
23.	Ms. Rita R. Bhawalkar
24.	Mr. Jagdish Yadav
25.	Mrs. Pooja Pande
26.	Mrs. Rashmi Bhatt
27.	Ms. Kiran Gavhale
28.	Mrs. Bhgyashri Mankar
29.	Mr. Abhay Yeole

Leave of Absence is granted to the following Members:

1	Dr. P. S. Deshpande, Professor & Head, Deptt. of CSE, VNIT Nagpur
2	Dr. U. A. Deshpande Professor, CSE VNIT, Nagpur
3	Mr. Sandesh Supekar, Manager, TCS Pune
4	Dr. Swati G. Kale

Following are the minutes of the meeting:

Agenda No. 31.01
Welcome of new members

BoS Chairman Welcome the following external and internal members:

Mrs. Pooja Pande
Mrs. Rashmi Bhatt
Mrs. Bhgyashri Mankar
Mr. Abhay Yeole

Agenda No. 31.02
Installation of member Secretary

NIL

Agenda No. 31.03
Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.

Minutes of 30th BoS meeting were read by Member secretary and approved by the BoS unanimously.

Agenda No. 31.04

To discuss and finalize the Scheme of Examination SoE 2023 of Information Technology and Computer Science and Design programs , framed as per NEP 20 Guidelines, issued by Government of Maharashtra through GR No: NEP-2022/(67/23) /DTE-2 dated 04.07.2023.

Draft SOE 2023 of Information Technology and Computer Science and Design programs , framed as per NEP 20 Guidelines, issued by Government of Maharashtra through GR No: NEP-2022/(67/23) /DTE-2 dated 04.07.2023 and approved by BOS.

Agenda No. 31.05

To discuss and suggest the action taken on

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

  POs, PSOs Attainment for Session 2022-2023(EVEN) is in process.

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

Semester	Percentage
4th Sem IT	90.25%
6th Sem IT	98.44%
8th Sem IT	100 %
4th Sem CSD	80.30%

- Stake holders' feedback on review and design of curriculum

S.N.	Stakeholder	Feedback	Action Taken
1.	Parent	Focus should be given on technical courses in YCAP	The suggestion is communicated to the T&P Cell
2	Industry	Include current demand courses	Two professional electives in 5th and 7th Sem is included from Global Logic, Nagpur. Java Full stack Development .Net Full stack Development

3	Alumni	Students must have awareness about Cyber Laws	Audit course on Cyber Laws is introduced
4	Faculty	Improve analytical and practical skill	Added project-based learning in SE, Data Mining, ML, NLP

-

- 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%		No. of faculty with feedback less than 60%	
	In-sem	End-sem	In-sem	End-sem	In-sem	End-sem	In-sem	End-sem
IT- IV Sec-A	01/05	-	04/05	-	-	-	-	-
IT- IV Sec-B	-	-	04/05	-	01/05	-	-	-
IT- VI Sec-A	-	-	05/07	-	01/07	-	01/07	-
IT- VI Sec-B	01/07	-	05/07	-	-	-	01/07	-
CSD-IV	01/05	-	03/05	-	01/05	-	-	-

-

Agenda No. 31.06

To discuss and suggest the minor changes in the syllabi of various courses in B.Tech 2022 & B.Tech 2022 Schemes of Undergraduate programs conducted under the Board. (Comment: Consider the remarks given by the faculty in course completion reports of previous terms, consider the remarks given by students, teachers, employers, alumni mentioned in their feedback if any under the head of design and review of curriculum)

Minor changes in the syllabus of following courses are accepted by the expert members:

SEM	Course	Suggestions
5 IT	.Net Full stack	Merged unit I, II and III and restructured the

	Development	syllabus
5 CSD	**Virtual Reality (OE)**	Content are modified so that syllabus is comfortable for other branches students
5 CSD	Cyber Laws **and Professional Ethics**	More contents related to Cyber Laws are added

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.

Books/ Reference Books/ Literature Sources published in the syllabi of courses is reviewed and approved.

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. (Comment: The laboratory courses may be described in greater details for easy understanding by students.)

list of experiments of following courses is reviewed and approved.

1. Java Full stack Development
2. .Net Full stack Development

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. -NA

Agenda No. 31.10

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

MOOC courses on Artificial Intelligence of 8th semester IT and CSD of SOE 2023 is added as per the guidelines provided by the NEP2020

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/Even Term 2023-24

The panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs for End Semester Examination of ODD Term 2023-24 is constituted.

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/Even Term 2023-24 (Comment: Question papers of all the courses of PG programs are set and evaluated by the course instructor from Odd Term 2023-24. The grades of the students will also be decided by the Course Instructors.)- NA

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/Even Term 2023-24.

The panel of internal and external examiners for the various laboratory courses at UG level for End Semester Examination of ODD Term 2023-24 is constituted.

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

STATUS OF QUESTION BANKS WITH SOLUTION SET AVAILABLE FOR SESSION 2023-24 ARE AS UNDER:

SN	Subject	Sem.	Name of faculty member	Status
1	Data Structure and Program Design-I	III	Prof. Sushil Chavan	Ready
2	Computer Architecture and Organization	III	Prof. Kiran Gawhale	Ready
3	Digital Circuits and Microprocessors	III	Prof. Shraddha Goguluthu	Ready
4	Object Oriented Programming	III	Prof. Pooja Dhawane	Ready
5	Data Structure and Program Design-II	IV	Prof. Bhushan Bawankar	Ready
6	Theory of Computation	IV	Prof. Bhushan Bawankar	Ready
7	Operating Systems	IV	Prof. Rutuja Chirwatkar	Ready
8	Computer Networks	IV	Prof. Amol Gaikwad	Ready
9	Software Engineering	V	Prof. Amol Gaikwad	Ready
10	Database Management System	V	Prof. Piyush Dhule	Ready
11	Customer Relationshiop Management	V	Prof. Amol Gaikwad	Ready
12	OE- I Core Java	V	Prof. Pooja Dhawane	Ready

13	OE -I Industry 4.0	V	Prof. Divya Kantode	Proposed
14	OE- I Introduction to Data Science	V	Prof. Prerna Jawdand	Proposed
16	OE- II Information Security	V	Prof. Chandrayani Rokde	Proposed
18	Design & Analysis of Algorithm	VI	Prof. Jagdish Yadav	Ready
19	Principles of Compiler Design	VI	Prof. Apurva Bodkhe	Ready
20	Machine Learning	VI	Dr. U. H. Gawande	Ready
21	Business Intellegience	VI	Prof. Priyanka Jaiswal	Ready
22	Internet of Things	VI	Prof. Shraddha Goguluthu	Ready
23	Data Mining	VII	Prof. Priyanka Jaiswal	Ready
25	Principles of Artificial Intelligence	VII	Dr. U. H. Gawande	Ready
26	Data Analysis and Statistics	VII	Prof. Diksha Gabhane	Ready
27	Digital Image Processing	VII	Dr. U. H. Gawande	Ready
28	Cloud Computing	VII	Dr. R. C. Dharmik	Ready
30	Mobile Communication	VII	Prof. M. Hadap	Ready
32	Big Data Analytics	VII	Prof. Vishakha Akhare	Proposed
33	Parallel Computing	VII	Prof. Chandrayani Rokde	Ready
34	Neural Network and Fuzzy Ligic	VII	Dr. U. H. Gawande	Ready
36	Deep Learning	VII	Prof. Nisha Wankhede	Proposed
38	Distributed Systems	VII	Prof. Sushil chavan	Ready
43	Natural Language Processing	VII	Prof. Swati Kale	Proposed
44	Real Time Systems	VII	Prof. Priti Matre	Ready

Agenda No. 31.15

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

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 2023-24.
Following SOE for Minor and Honor Program and its syllabus of the Undergraduate program discussed and approved.

1. Cyber Security (Honor)
2. Blockchain (Honor)
3. Cloud Computing (Minor)

Agenda No. 31.17

Any other matter with the permission of the Chair.

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Ph.: 07104-237919, 234623, 329259, 329250 Fax: 07104-232376, Website: www.ycce.edu

Department of Information Technology

Dr. Nisha Wankhade
BoS Member Secretary
Department of Information Technology

Dr. R. C. Dharmik
Head and Chairman
Department of Information Technology

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Department of Information Technology

YCCE/IT/FORMAT/BOS/MOM/32 19/01/2024

Minutes of BOS Meeting

The **thirty second meeting** of the Board of Studies in **Information Technology** was held on Friday**, 19th Jan 2024** at 10.30a.m. onwards

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. P. S. Deshpande, Professor & Head, Deptt. of CSE, VNIT Nagpur	External Expert
2	Dr. Latesh Malik,, Prof. CSE GCOE, Nagpur	External Expert

BoS Members

Sr. No.	Name
1.	Dr. R. C. Dharmik, Chairman
2.	Dr. K. K. Bhoyar
3.	Dr. U. H. Gawande
4.	Dr. N. R. Wankhade , Member Secretary
5.	Dr. Swati G. Kale
6.	Mr. M. K. Hadap
7.	Mr. B. U. Bawankar
8.	Mr. A. D. Gaikwad
9.	Ms. P. G. Jaiswal
10.	Mrs. S. S. Gugulothu
11.	Mr. S. S. Chavhan
12.	Ms. Kavita H. Gudadhe
13.	Ms. Warsha P. Sirskar
14.	Ms. Swapna M. Kamble
15.	Ms. Snehal Tiparkar
16.	Ms. Rutuja B. Chirwatkar
17.	Ms. DivyaM. Kantode

18.	Ms. Vishakha D. Akhare
19.	Ms. Chandrayani N. Rokde
20.	Mr. Piyush G. Dhule
21.	Ms. Swapna D. Lokhande
22.	Ms. Pooja G. Dhawane
23.	Ms. Priti V. Matre
24.	Ms. Rita R. Bhawalkar
25.	Mr. Jagdish Yadav
26.	Mrs. Pooja Pande
27.	Mrs. Rashmi Bhatt
28.	Ms. Kiran Gavhale
29.	Mrs. Bhgyashri Mankar
30.	Mr. Abhay Yeole
31.	Mrs. Sumedha Chokhandre

Leave of Absence is granted to the following Members:

1	Dr. U. A. Deshpande Professor, CSE VNIT, Nagpur
2	Mr. Abhishek Nachankar, Member PG Alumni
3	Mr. Sandesh Supekar, Manager, TCS Pune

Following are the minutes of the meeting:

Agenda No. 32.01
Welcome of new members

BoS Chairman Welcome the following external and internal members:

Dr. K.K.Bhoyar
Ms. Snehal Tiparkar
Ms. Kiran Gawhale
Mrs. Sumedha Chokhandre

Agenda No. 32.02
Installation of member Secretary
NIL

Agenda No. 32.03
Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.

Minutes of 31st BoS meeting were read by Member secretary and approved by the BoS unanimously.

Agenda No. 32.04

A] To discuss and finalize the Scheme of Examination SoE 2023 and syllabi of 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. To approve SoE23 and all syllabi of B.Tech second to final Year .

SOE 2023 of Information Technology and Computer Science and Design programs , framed as per NEP 20 Guidelines, issued by Government of Maharashtra through GR No: NEP-2022/(67/23) /DTE-2 dated 04.07.2023 and approved by BOS.

B] To discuss and finalize the Scheme of Examination SoE 2022 and syllabi of Undergraduate programs framed AND to approve SoE22 and all syllabi of B.Tech Third to final Year .

SOE 2022 and syllabi of UG program was discussed and approved by BOS.

Agenda No. 32.05

To discuss and suggest the action taken on

- **Co/Po attainment of subjects taught in Odd semester 2023-24**
  Institution is shifting all its processes on a new Information System Software, due to which, we are experiencing slight delay in compilation of the information hence not able to complete the Co/Po attainment process. We have done the attainment of the internal exams but final analysis is still in process.
- **Result analysis of subjects taught in previous semester**
  Institution is shifting all its processes on a new Information System Software, due to which, we are experiencing slight delay in compilation of the information hence not able to present the result analysis.

- Stake holders' feedback on review and design of curriculum

S.N.	Stakeholder	Feedback	Action Taken
2	Industry	Involve industry professionals in curriculum delivery, guest lectures, workshops, and internships.	1. Content delivery of 6th sem PE: Machine learning is being taken by Dr. Prasanna Deshpande, Delivery head, TCS, Mihan, Nagpur.

3	Alumni	Encourage students to stay updated with industry trends and best practices.	1. Two courses is added in NEP23 scheme based on web Programming 2. Value added course on Bootstrap is scheduled for 6th sem students. Experts from Sunflower Systems, Gujrat
4	Faculty	Minor changes are suggested in courses named cyber laws, DBMS, and Open Source tool for Graphics	Suggested changes are incorporated in respective courses.

- **In Sem, End Sem and Exit feedback on Teaching Learning & curriculum**
  Feedback analysis report of Odd term 2023-24 has been discussed with BoS Experts. (Feedback below 3.25 (65%))

Sr. NO	**III**	**V**	**VII**
<65%	**NIL**	**2**	**NIL**

Action Taken: The concerned faculty members were called for counselling by a committee consisting of Principal, DAM and HoD and discussed the reasons behind less student feedback. Committee suggested the measures and necessary actions to improve the performance.

Agenda No. 32.06

To discuss and suggest the minor changes in the syllabi of various courses in B.Tech 2022 & B.Tech 2023 Schemes of Undergraduate programs conducted under the Board.

Minor changes in the syllabus of following courses are accepted by the expert members:

SEM	Course	Suggestions
5th	Database Management Systems	Unit2 should be on NoSQL(MONGODB)
4th	Cyber laws	Redesign the content based on Cyber Crime and Security
4th	Audit course on Open Source tool for Graphics	Effectively cover three open source graphics tool instead of six, rearrange the syllabus accordingly

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Department of Information Technology

Agenda No. 32.07

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.

Books/ Reference Books/ Literature Sources published in the syllabi of courses is reviewed and approved.

Agenda No. 32.08

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

list of experiments of all courses is reviewed and approved.

Agenda No. 32.09

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

Agenda No. 32.10

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

MOOC courses on Software Testing and Automation of 6th semester IT of SOE 2020 is added.

Agenda No. 32.11

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 2023-24

The panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs for End Semester Examination of ODD Term 2023-24 is constituted.

Agenda No. 32.12

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 2023-24 - NA

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Agenda No. 32.13

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 2023-24.

The panel of internal and external examiners for the various laboratory courses at UG level for End Semester Examination of ODD Term 2023-24 is constituted.

Agenda No. 32.14

Preparation of Electronic question Bank UG courses according to B.Tech SoE 2022 & 2023. To review solutions to all questions of Electronic Question Banks for all courses. To review the creation and dissemination of content developed by senior faculty in AY 2022-23 and also propose the names of content developers in AY 2023-24.

Content is developed for the course TOC(by Dr. R.C.Dharmik) and NNFL(by Dr. U. H. Gawande)

Content development of OOP and CAO is in processes.

STATUS OF QUESTION BANKS WITH SOLUTION SET AVAILABLE FOR SESSION 2023-24 ARE AS UNDER:

SN	Subject	Sem.	Name of faculty member	Status
1	Data Structure and Program Design-I	III	Prof. Sushil Chavan	Ready
2	Computer Architecture and Organization	III	Prof. Kiran Gawhale	Ready
3	Digital Circuits and Microprocessors	III	Prof. Shraddha Goguluthu	Ready
4	Object Oriented Programming	III	Prof. Pooja Dhawane	Ready
5	Data Structure and Program Design-II	IV	Prof. Bhushan Bawankar	Ready
6	Theory of Computation	IV	Prof. Bhushan Bawankar	Ready
7	Operating Systems	IV	Prof. Rutuja Chirwatkar	Ready
8	Computer Networks	IV	Prof. Amol Gaikwad	Ready
9	Software Engineering	V	Prof. Amol Gaikwad	Ready
10	Database Management System	V	Prof. Piyush Dhule	Ready
11	Customer Relationshiop Management	V	Prof. Amol Gaikwad	Ready
12	OE- I Core Java	V	Prof. Pooja Dhawane	Ready
13	OE -I Industry 4.0	V	Prof. Divya Kantode	Proposed
14	OE- I Introduction to Data Science	V	Prof. Prerna Jawdand	Proposed
16	OE- II Information Security	V	Prof. Chandrayani Rokde	Proposed
18	Design & Analysis of Algorithm	VI	Prof. Jagdish Yadav	Ready
19	Principles of Compiler Design	VI	Prof. Apurva Bodkhe	Ready
20	Machine Learning	VI	Dr. U. H. Gawande	Ready

21	Business Intellegience	VI	Prof. Priyanka Jaiswal	Ready
22	Internet of Things	VI	Prof. Shraddha Goguluthu	Ready
23	Data Mining	VII	Prof. Priyanka Jaiswal	Ready
25	Principles of Artificial Intelligence	VII	Dr. U. H. Gawande	Ready
26	Data Analysis and Statistics	VII	Prof. Diksha Gabhane	Ready
27	Digital Image Processing	VII	Dr. U. H. Gawande	Ready
28	Cloud Computing	VII	Dr. R. C. Dharmik	Ready
30	Mobile Communication	VII	Prof. M. Hadap	Ready
32	Big Data Analytics	VII	Prof. Vishakha Akhare	Proposed
33	Parallel Computing	VII	Prof. Chandrayani Rokde	Ready
34	Neural Network and Fuzzy Ligic	VII	Dr. U. H. Gawande	Ready
36	Deep Learning	VII	Prof. Nisha Wankhede	Proposed
38	Distributed Systems	VII	Prof. Sushil chavan	Ready
43	Natural Language Processing	VII	Prof. Swati Kale	Proposed
44	Real Time Systems	VII	Prof. Priti Matre	Ready

Agenda No. 32.15

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

Agenda No. 32.16

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 2023-24. - NA

Agenda No. 32.17

Any other matter with the permission of the Chair.

Dr. Nisha Wankhade
BoS Member Secretary
Department of Information Technology

Dr. R. C. Dharmik
Head and Chairman
Department of Information Technology

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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 Semster										
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 activitied decided by course teacher, 4 marks on class attendance

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

		June 2022	**1.05**
Chairperson	**Dean (Acad. Matters)**	**Date of Release**	**Version**

Applicable for AY 2022-23 Onwards

Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

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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**				
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: Introdcution 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	

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**
Chairperson	**Dean (Acad. Matters)**	**Date of Release**	**Version**

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Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

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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**				
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	

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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(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 Recrutment 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 Standardand 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

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

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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**
Chairperson	**Dean (Acad. Matters)**	**Date of Release**	**Version**

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Department of Computer Science & Engineering

YCCE/CSE/FORMAT/BOS/MOM/5 21/07/2023

Minutes of BOS Meeting

Fifth Meeting of the Board of Studies in **Computer Science & Engineering** was held on Friday**,** 21/07/2023 at 1 pm. in offline mode at Computer Science & Engineering 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. D.S Adane	RTMNU Nominee	
2	Dr. P.S.Deshpande	External Expert	
3	Dr. U. A. Deshpande	External Expert	
4	Mr.Swapnil Deshmukh	External Expert	

BoS Members:

Sr. No.	Name of Member	Sign	Sr. No.	Name of Member	Sign
1	Dr. Lalit Damahe		16	Mrs. N.P. Giradkar	
2	Dr. K.K.Bhoyar		17	Ms. Roshni Bhave	
3	Mrs. R.A.Fadnavis		18	Mrs. Shraddha G.Vaidya	
4	Mr. Fazil Sheikh		19	Mr. Sachin Janbandhu	
5	Ms. Priyanka Pitale		20	Mr. Milind Tote	
6	Mrs. P.P. Wagale		21	Mr. Sagar Lachure	
7	Mrs. Amita Meshram				
8	Mr. Jiven N. Dehankar				
9	Mr. Rushikesh M. Shete				
10	Mrs Bharati Karare				
11	Mrs. V.N. Bagade				
12	Mrs. A.T. Paul				
13	Mrs. Kavita A. Kathane				
14	Mrs. S. B. Meshram				
15	Ms. Renuka Kadu				

Leave of Absence was granted to following members:

Sr. No.	Name of Member
1.	Dr. D.S Adane, RTMNU Nominee

2.	Dr. P.S.Deshpande, External Expert
3.	Dr. U. A. Deshpande, External Expert
4.	Mr.Swapnil Deshmukh, External Expert

Following are the minutes of the meeting:

Item No. 5.01

Welcome of members

BoS Chairman Dr. Lalit Damahe introduced new faculty members joined in the deaprtment.

Item No. 5.02

Installation of member Secretary

- no change

Item No. 5.03

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

ATR available in Annexure -I

Item No. 5.04

1. **To discuss and finalize the Scheme of Examination SoE 2023 of CSE and CSE AIML, framed as per NEP 20 Guidelines, issued by Government of Maharashtra through GR No: NEP-2022/(67/23) / DTE-2 dated 04.07.2023 conducted under the respective boards Board.**

   SoE NEP 2023-24 of CSE and CSE- AIML has been shown to BoS members and approved.

2. **To approve SoE23 and all syllabi of B.Tech I Year.**
   NEP SoE 2023 and Syllabus of subjects taught to first year of CSE and CSE AIML were shown to BoS Members and approved.

Item No. 5.05

To discuss and suggest theaction 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.InSem,EndSem and Exitfeedback on Teaching Learning &curriculum

i) **CO/PO attainment of subjects taught in previous semester**

End semester results data was not available

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. Experts appreciated the efforts taken by the faculty for good results.

S.N	Semester	Pass %
1	IV CSE	96.28
2	IV CSE (AIML)	93.92
3	VI CSE	97.60

As the results of VIsemester are above 80%, No action required to be taken

iii) Stake holders feedback on review and design of curriculum –

S.N.	Stakeholder	Feedback	Action Taken
1	Faculty	CSE2343: Introduction to Cloud Computing- Replication and Billing should include in Syllabus	Proposed in BoS meeting and Approved
		22CSE303:Object-Oriented Programming- Exclude the topics – Introduction to AWT, Working with Windows, Graphics and Text	Proposed in BoS meeting and Approved
		CSE2423 Machine Learning Techniques- Logistic regression to be included	Proposed in BoS meeting and Approved

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

All feedback has been discussed with BoS Experts. As feedback on teaching learning is above 70%, BoS experts appreciated and asked to maintain the same.

CSE- Feedback Analysis 2022-2023(In Sem.)

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%		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	3/9	-	6/9	-	-	-	-	-
VI	8/9	-	-	-	1/9	-	-	-

CSE (AIML) - Feedback Analysis 2022-2023(In Sem.)

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%		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	2/5	-	3/5	-	-	-	-	-

Item No. 5.06

To discuss and suggest the minor changes in the syllabi of various courses in B.Tech 2022 & B.Tech 2022 Schemes of Undergraduate program conducted under the Board.

SoE and Syllabus of 3rd semester courses of B.Tech SoE2022 , 5th semester courses in SoE2021-22 and 7th semester courses in Autonomous 2020-21 Schemes of Undergraduate were discussed and encorporated the suggested minor changes in the syllabi of various courses conducted under the Board. Minor changes in the syllabus of following III, V and VI Semester CSE subject are accepted by the expert members:

semster	Course	Suggestions
III	22CSE303– Object Oriented Programming	Exclude the topics – Introduction to AWT, Working with Windows, Graphics and Text
V	CSE2343- Introduction to Cloud Computing	• Unit 2 should include Replication and Billing
VII	CSE-2423Machine Learning Techniques	• Logistic regression to be included

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Department of Computer Science & Engineering

Item No. 5.07

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- Nil

Item No. 5.08

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

Semester	Course	Suggestions
V	CSE2318- PE I-Lab: Mobile operating system	Add Scenerio Based practicals

Item No. 5.9

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

Item No. 5.10

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

new course in professional electives added . The list of same is given below :

Semster	**Course**
VII	CSE2415 - PE III: BlockChain Technology
VII	CSE2429 –PE- IV:Java FullStack Development
VII	CSE2431- PE- IV: .Net FullStack Development
VII	CSE2445 - PE V: Big Data Analytics

Item No. 5.11

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 2023-24.

The panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs for End Semester Examination(Y11) of ODD Term 2023-24 was constituted.

Item No. 5.12

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 2023-24 - NA

Item No. 5.13

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 2023-24.

The panel of internal and external examiners for the various laboratory courses at UG level for End Semester Examination(Y12) of ODD Term 2023-24 was constituted.

Item No. 5.14

Preparation of Electronic question Bank UG courses according to B.Tech SoE 2020 ,2021 & 2022. To review solutions to all questions of Electronic Question Banks for all courses

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
7.		CSE2253: Data Structure 2
8.	V	CSE2301:Database Management Systems
9.		CSE2303:Design & Analysis of Algorithms
10.		CSE2311:Business Intelligence
11.		CSE2313:Web Technologies
12.		CSE2317:Mobile operating System
13.	III (CSE AIML)	AIML2202 : Formal Language & Automata Theory
14.		AIML2204 :Data Structures
15.		AIML2204 :Computer Architecture & Organization
16.	IV (CSE AIML)	AIML2252: Operating Systems
17.		AIML2254: Software Engineering
18.		AIML2256: Design & Analysis of Algorithms
19.		AIML2258 : Database Management Systems

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List of Courses for which EQB is to be prepared in odd semster23-24-

SN	Semester	Course Name
1.	VII	CSE2401: Artificial Intelligence
2.		CSE2403: Cryptography and Network Security
3.		CSE2411: Software Project Management
4.		CSE2413: Information Retrieval System
5.		CSE2413: Natural Language Processing
6.		CSE2423: Machine Learning Techniques
7.		CSE2429: Java FullStack
8.		CSE2431: .Net FullStack
9.		CSE2441: Cloud Computing
10.		CSE2442: Distributed System
11.		CSE2445: Big Data Analytics

12.	V CSE-AIML	AIML2302: Foundation of Artificial Intelligence
13.		AIML2304: Machine Learning Essentials
14.	III CSE	22CSE301: Discrete Mathematics and Graph theory
15.		22CSE307: Web Technology
16.	III CSE-AIML	AML2201: Discrete Mathematics and Graph theory
17.		AML2207:Software Engineering

Item No. 5.15

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

Item No. 5.16

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

Discussed the scheme and syllabus of Honour and Minor courses to be run from academic year 2023-24 ODD Sem.

1. Honor in Augumented & Virtual Reality
2. Minor in Computer Science & Engineering

2. To Discuss and propose Certificate courses and value-added courses in Odd 2023-24.

List of Value Added Courses

Following is the list of Value-added courses conducted in even semester 2022-23.

Sr. No.	Name of theVAC	Date	Duration ofcourse	Number of students enrolled	Resource Person
1	VAC on Salesforce Developer	Even Sem2023 (25th mar,1st, 8th, 15th , 22nd , 29th April 2023)	30 hours	100	Prof. J.N. Dehankar, YCCE, Nagpur
2	VAC on Hands-on Animation using Adobe Animate CC	Even Sem 2023 (29th april, 5, 13, 21, 27,28 may 2023)	30 hours	110	Prof. Pravin Shrivastava Arena Animations, Nagpur

VAC Planned 2023-24

Sr. No.	Name of the VAC	Date	Duration ofcourse	Number ofstudents enrolled	Resource Person
1	VAC on Introduction to Ethical Hacking	Odd semester	30 hr		Prof. Shraddha Vaidya YCCE, Nagpur
2	VAC on Introduction to NodeJS and Angular JS	Odd semester	30 hr		Prof. Sachin Janbandhu YCCE, Nagpur

Item No. 5.17
Any other matter with the permission of the Chair- Nil

The meeting concluded by vote of thanks by chairperson, BoS of Computer Science and Engineering

Dr. L.B. Damahe
Chairman

Prof. Rupa Fadnavis
Member Secretary

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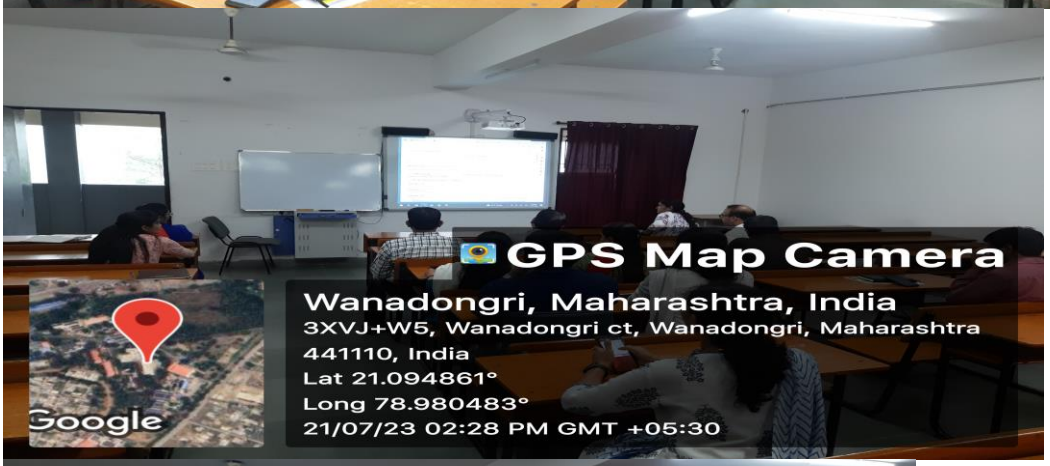

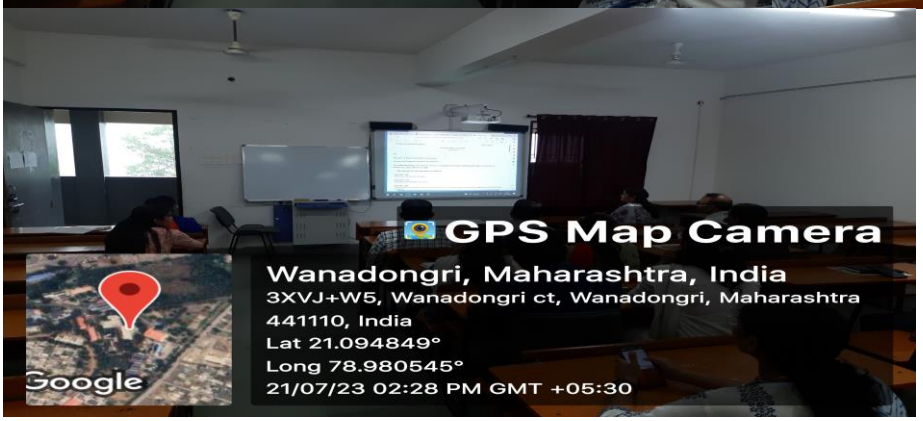

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Annexure –I

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

Sr. No	Course	semster	Suggestions	Action Taken
1	CSE2302– Lab: Database Management Systems	V	Add Practicals based on Multiple Queries	Added practicals as per suggestion
2	AIML2259- Database Management System	IV		
3	CSE2551:Computer Network	VI	Minor Changes in Practical List	Updated list as per suggestions
4	CSE2361-Lab: PE-II Digital Image Processing	VI	Implement 1-2 Practicals in Python Add practicals based on applications on CCTV data	Project based learning activity was taken to implement suggestions
5	CSE2363-Lab: Internet Of Things	VI	Add practicals on creating Sensors based applications like gas sensors, ph sensors ,etc.	Practicals were encorporated
6	CSE2365-Lab:Neural Network and Application	VI	-Add Refence book for Practical- "Deep learning with python" by Francois Chollet	Added book in reference

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Hingna Road, Wanadongri, Nagpur - 441 110

NAAC Accrediated with 'A^{++}' Grade

Ph: 07104-295083,295085

Website: www.ycce.edu, Email: principal@ycce.edu

Department of Computer Science and Engineering

YCCE/CSE/FORMAT/BOS/MOM/6 15/01/2024

Minutes of BOS Meeting

Sixth Meeting of the Board of Studies in **Computer Science & Engineering** was held on Monday, 15/01/2024 at 11 am. in offline mode at Computer Science & Engineering 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. P.S.Deshpande	External Expert	

BoS Members:

Sr. No.	Name of Member	Sign	Sr. No.	Name of Member	Sign
1	Dr. Lalit Damahe		17	Ms. Renuka Kadu	
2	Dr. N.V.Thakur		18	Mrs. N.P. Giradkar	
3	Mrs. R.A.Fadnavis		19	Ms. Roshni Bhave	
4	Mr. Fazil Sheikh		20	Mr. Sachin J. Janbandhu	
5	Mr. Milind Tote		21	Mrs. Shraddha G.Vaidya	
6	Ms. Priyanka Pitale		22	Mrs. Tejaswini A Puranik	
7	Mrs. P.P. Wagale		23	Mrs. Aayushi Jain	
8	Mrs. Amita Meshram		22	Mrs. Priyanka Kandekar	
9	Mr. Jivan N. Dehankar				
10	Mr. Rushikesh M. Shete				
11	Mrs Bharati Karare				
12	Mrs. V.N. Bagade				
13	Mrs. C.A.Tripathi				
14	Mrs. A.T. Paul				
15	Mrs. Kavita A. Kathane				
16	Mrs. S. B. Meshram				

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Leave of Absence was granted to following members:

Sr. No.	Name of Member
1.	Dr. U. A. Deshpande, External Expert
2.	Dr. D.A Adane,RTMNU nominee
3	Mr.Swapnil Deshmukh, External Expert
4.	Dr.N.V.Thakur

Following are the minutes of the meeting:

Item No. 6.01

Welcome of new members

BoS Chairman Dr. Lalit Damahe introduced new faculty members joined in the deapartment.

Item No. 6.02

Installation of member Secretary

- no change

Item No. 6.03

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

ATR available in Annexure -I

Item No. 6.04

To discuss and suggest theaction 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.InSem,EndSem and Exitfeedback on Teaching Learning &curriculum

i) CO/PO attainment of subjects taught in previous semester .

- **Co/Po attainment of subjects taught in Odd semester 2023-24**
  Institution is shifting all its processes on a new Information System Software, due to which, we are experiencing slight delay in compilation of the information hence not able to complete the Co/Po attainment process. We have done the attainment of the internal exams but final analysis is still in process.
- **Result analysis of subjects taught in previous semester**
  Institution is shifting all its processes on a new Information System Software, due to which, we are experiencing slight delay in compilation of the information hence not able to present the result analysis.

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. Experts appreciated the efforts taken by the faculty for good results.

S.N	Semester	Pass %
1	V CSE and CSE-AIML	Result Awaited
2	III CSE and CSE-AIML	Result Awaited
3	VII CSE	Result Awaited

iii) Stake holders feedback on review and design of curriculum –

S.N.	Stakeholder	Feedback	ActionTaken
1.	Parent	Motivate for Competitive Programming	Competitive programming is being added in the subjects- DataStructure, Object Oriented Programming, Professional Electives courses introduced in syllabus - Java FullStack, .Net FullStack
2	Faculty	In 7th semester CSE- professional elective course : Natural Language Processing- topics :Dependency Parsing, Distributional Semantics should be included in Syllabus	Proposed in BoS meeting and Approved

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

Feedback analysis report of Odd term 2023-24 has been discussed with BoS Experts. (Feedback below 3.25 (65%))

Sr. NO	III	V	VII
<65%	3	1	NIL

Action Taken: The concerned faculty members were called for counselling by a committee consisting of Principal, DAM and HoD and discussed the reasons behind less student feedback. Committee suggested the measures and necessary actions to improve the performance.

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Item No. 6.05

To discuss and finalize the Scheme of Examination SoE 2023 of CSE and CSE AIML, framed as per NEP 20 Guidelines, issued by Government of Maharashtra through GR No: NEP-2022/(67/23) / DTE-2 dated 04.07.2023 conducted under the respective boards Board.

SoE NEP 2023-24 of CSE and CSE- AIML has been shown to BoS members and approved. Suggestion was : Multidisciplinary minor course should be given to other branch students

1. **To approve SoE23 and all syllabi of B.Tech I Year.**
   NEP SoE 2023 and Syllabus of first year CSE and CSE AIML were shown to BoS Members and approved.

2. **To discuss and finalize the Scheme of Examination SoE 2022 framed AND to approve SoE22 and all syllabi upto B.Tech II Year.**
   NEP SoE 2022 and Syllabus of Second year CSE and CSE AIML were shown to BoS Members and approved.
   IN CSE- AIML- NEP SOE22: It is suggested to include compiler course as an professional elective course

Item No. 6.06

To discuss and suggest the minor changes in the syllabi of various courses in 7th semester courses in Autonomous 2020-21 Schemes of Undergraduate program conducted under the Board.

Minor changes in the syllabus of following VII Semester CSE subject are suggested by the expert members:

CSE- soe 20-21

semster	Course	Suggestions
VII	CSE2445- PE V: Big Data Analytics	Spark architecture , SparQL, Cassandra can be included in syllabus
VII	CSE-2423 Machine Learning Techniques	Optimization Techniques and Linear Programming should be included

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Minor changes in the syllabus of following VII Semester CSE and CSE-AIML subject are asuggested by the expert members:

Item No. 6.07
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

Semster	Course	Suggestions
VII	CSE-2423 Machine Learning Techniques	Pattern Recognition,4th edition, Sergios Theodoridis
VII	CSE2445- PE V: Big Data Analytics	Reference book to be added – seven databases in seven weeks

Item No. 6.08
To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under-Graduate programs-Nil

Item No. 6.9
To discuss and suggest the changes in the Academic Regulations governing the Undergraduate programs conducted under the Board.- Nil

Item No. 6.10
To discuss and propose the new courses/MOOCS received from the faculty for inclusion in the curriculum.

Courseera Course can be given as one of the option in professional elective courses . The details of same is given below :Coursera

Semster	**Course**
VI Sem CSE (20-21SoE)	TH- Programming with Javascript(Meta) - 42hours PR- React Basics (Meta) 26 hours

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Item No. 6.11

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 2023-24.

The panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs for End Semester Examination(Y11) of EVEN Term 2023-24 was constituted.

Item No. 6.12

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 2023-24- NA

Item No. 6.13

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 EVEN Term 2023-24

The panel of internal and external examiners for the various laboratory courses at UG level for End Semester Examination(Y12) of **EVEN Term 2023-24** was constituted.

Item No. 6.14

Preparation of Electronic question Bank for core UG courses.

List of Courses for which EQB is prepared :

SN	Semester	Course Name
1.	III	22CSE302: Computer Architecture and Organization
2.		22CSE303: Object Oriented Programming
3.		22CSE305: Data structure –I
4.	IV	CSE2255:Introduction to Data Analysis
5.		CSE2251: Operating System
6.		CSE2257: Theory Of Computation
7.		CSE2253: Data Structure 2
8.	V	CSE2301:Database Management Systems
9.		CSE2303:Design & Analysis of Algorithms
10.		CSE2311:Business Intelligence
11.		CSE2313:Web Technologies
12.		CSE2317:Mobile operating System
13.	III (CSE	22AML302 : Formal Language & Automata

	AIML)	Theory
14.		22AML304 :Data Structures
15.		22AML306 :Computer Architecture & Organization
16.	IV (CSE AIML)	AIML2252: Operating Systems
17.		AIML2254: Software Engineering
18.		AIML2256: Design & Analysis of Algorithms
19.		AIML2258 : Database Management Systems
20.	V- AIML	AIML2302:Foundation of Artificial Intelligence
21.		AIML2304:Machine Learning Essentials
22.	VII CSE	CSE2401: Artificial Intelligence
23.		CSE2403: Cryptography and Network Security
24.		CSE2411: Software Project Management
25.		CSE2413: Information Retrieval System
26.		CSE2413: Natural Language Processing
27.		CSE2423: Machine Learning Techniques
28.		CSE2429: Java FullStack
29.		CSE2431: .Net FullStack
30.		CSE2441: Cloud Computing

List of Courses for which EQB is to be prepared-

1.	VI CSE- AIML	AIML2351:Advanced Artificial Intelligence
2.		AIML2353:Computer Networks
3.		AIML2355:Digital Image Processing
4.		AIML2361: PE II: Blockchain Technology
5.		AIML2363: PE II: Internet of Things
6.		AIML2365: PE II: Cloud computing

Item No. 6.15

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

Item No. 6.16

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

2. To Discuss and propose Certificate courses and value-added courses in 2023-24.

List of Value Added Courses

Following is the list of Value-added courses conducted in 2023-24.

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Sr. No.	Name of the VAC	Date	Duration of course	Number of students enrolled	Resource Person
1	VAC on Introduction Ethical Hacking	Odd Sem 2023 (16/9/23 to 22/10/23)	30 hr	93	Mr. Rudram Wandalkar, Forensic Solutions
2	VAC on Introduction Digital Marketing	Odd Sem 2023 (4^{th},5^{th},18^{th},19^{th} Nov 2023 to 3^{rd},9^{th},10^{th},16^{th} Dec 2023	30 hr	172	Mrs. Shweta Pathak

Item No. 6.17

Any other matter with the permission of the Chair- Nil

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 ComputerScience&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	
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 Semster														
1	4	BS	GE2207	Discrete Mathematics & Graph Therory	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 activitied decided by course teacher, 4 marks on class attendance

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

		June 2022	1.01
Chairperson	Dean (Acad. Matters)	Date of Release	Version

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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	
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	

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

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Computer Science & Engineering

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						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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SoE No. CSE-202.1

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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 Retrival 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
Chairperson	Dean (Acad. Matters)	Date of Release	Version

Applicable for AY 2022-23 Onwards

Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

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	
Eigth 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 activitied 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

(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

SoE No. 23STR-101

M.TECH. SCHEME OF EXAMINATION 2023

M.Tech. in Structural Engineering

SN	Sem	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage		ESE Duration Hours
					L	T	P	Hrs		TA**	ESE	
I SEMESTER												
1	1	23STR101	Theory of Elasticity & Elastic Stability	T	**3**	0	0	3	3	20	80	3
2	1	23STR102	Structural Dynamics	T	**3**	0	0	3	3	20	80	3
3	1	23STR103	**Lab. :** Structural Dynamics	P	**0**	0	2	2	1	60	40	-
4	1	23STR104	Matrix Analysis of Structures	T	**3**	0	0	3	3	20	80	3
5	1	23STR105	**Lab. :** Matrix Analysis of Structures	P	**0**	0	2	2	1	60	40	-
6	1	23STR106	Design of Substructures & Foundations	T	**3**	0	0	3	3	20	80	3
7	1	23STR107	Earthquake & Wind Effects on Structures	T	**3**	0	0	3	3	20	80	3
8	1	23STR108	Advanced Concrete Structures	T	**3**	0	0	3	3	20	80	3
9	1	23STR109	**Lab. :** RCC Design Studio	P	**0**	0	2	2	1	60	40	-
Total					**18**	**0**	**6**	**24**	**21**			
II SEMESTER												
1	2	23STR201	Finite Element Method	T	3	0	0	3	3	20	80	3
2	2	23STR202	**Lab. :** Finite Element Method	**P**	0	0	2	2	1	60	40	-
3	2	23STR203	Prestressed Concrete	T	3	0	0	3	3	20	80	3
4	2	23STR204	Advanced Steel Structures	T	3	0	0	3	3	20	80	4
5	2	23STR205	**Lab. :** Steel Design Studio	**P**	0	0	2	2	1	60	40	-
6	2		**Professional Elective-I**	T	3	0	0	3	3	20	80	3
7	2		**Professional Elective-II**	T	3	0	0	3	3	20	80	3
8	2		**Professional Elective-III**	T	3	0	0	3	3	20	80	3
Total					**18**	**0**	**4**	**22**	**20**			

Professional Elective - I

1	2	23STR211	**PE I :** New Engineering Materials									
2	2	23STR212	**PE I :** Theory of Plates & Shells									
3	2	23STR213	**PE I :** Smart Structures & Applications									

Professional Elective - II

1	2	23STR231	**PE II :** RC Tall Buildings									
2	2	23STR232	**PE II :** Composite Structures									
3	2	23STR233	**PE II :** RC Bridge Design									

Professional Elective - III

1	2	23STR241	**PE III :** Plastic Analysis & Design of Steel Structures									
2	2	23STR242	**PE III :** Seismic Analysis & Design of Structures									
3	2	23STR243	**PE III :** Design of Industrial Structures									
III SEMESTER												
1	3	23STR301	Project Phase-I	**P**	0	0	16	16	8	60	40	-
Total					**0**	**0**	**16**	**16**	**8**			
IV SEMESTER												
1	4	23STR401	Project Phase-II	**P**	0	0	24	24	12	60	40	-
Total					**0**	**0**	**24**	**24**	**12**			

GRAND TOTAL			**61**

		June, 2023	**1.00**	**Applicable for AY 2023-24 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)

SoE No. 23ENV-101

M.TECH. SCHEME OF EXAMINATION 2023

M.Tech. in Environmental Engineering

SN	Sem	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage		ESE Duration Hours
					L	T	P	Hrs		TA**	ESE	
I SEMESTER												
1	1	23ENV101	Energy Conversion & Environment	T	3	0	0	3	3	20	80	3
2	1	23ENV102	Water Supply & Waste Water Collection System	T	3	0	0	3	3	20	80	3
3	1	23ENV103	**Lab :** Water Supply & Waste Water Collection System	P	0	0	2	2	1	60	40	-
4	1	23ENV104	Municipal Water Treatment	T	3	0	0	3	3	20	80	3
5	1	23ENV105	Municipal Solid Waste Management	T	3	0	0	3	3	20	80	3
6	1	23ENV106	Municipal Waste Water Treatment	T	3	0	0	3	3	20	80	3
7	1	23ENV107	**Lab :** Water & Waste Water Analysis	P	0	0	2	2	1	60	40	-
Total					**15**	**0**	**4**	**19**	**17**			
II SEMESTER												
1	2	23ENV201	Industrial Waste Water Treatment & Reuse	T	3	0	0	3	3	20	80	3
2	2	23ENV202	Environmental Management	T	3	0	0	3	3	20	80	3
3	2	23ENV203	Air Quality Management	T	3	0	0	3	3	20	80	3
4	2	23ENV204	Rural Water Supply and Sanitation	T	3	0	0	3	3	20	80	3
5	2		**Professional Elective-I**	T	3	0	0	3	3	20	80	3
6	2		**Professional Elective-II**	T	3	0	0	3	3	20	80	3
7	2	23ENV205	Seminar	P	0	0	2	2	1	60	40	-
Total					**18**	**0**	**2**	**20**	**19**			

Professional Elective - I

1	2	23ENV211	**PE I :** Hazardous Waste Management									
2	2	23ENV212	**PE I :** Water Resource Management									
3	2	23ENV213	**PE I :** Environmental Biotechnology									
4	2	23ENV214	**PE I :** Advanced Water Treatment									

Professional Elective - II

1	2	23ENV231	**PE II :** Environmental Legislations									
2	2	23ENV232	**PE II :** Applied Structure									
3	2	23ENV233	**PE II :** Water Reuse and Recycling									
III SEMESTER												
1	3	23ENV301	Project Phase-I	**P**	0	0	16	16	8	60	40	-
Total					**0**	**0**	**16**	**16**	**8**			
IV SEMESTER												
1	4	23ENV401	Project Phase-II	**P**	0	0	24	24	12	60	40	-
Total					**0**	**0**	**24**	**24**	**12**			
GRAND TOTAL									**56**			

		June, 2023	1.00
Chairperson	**Dean (Acad. Matters)**	**Date of Release**	**Version**

Applicable for AY 2023-24 Onwards

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 2023

Department of Mechanical Engineering

M.Tech in Automation & Robotics

SoE No. 23AR-101

Sl. No.	Sem	Course Code	Course Title	T/P	Contact Hours				Credits	% Weightage		ESE Duration Hrs.
					L	T	P	Hrs.		TA	ESE	
I SEMESTER												
1	1	23AR101	Robot Kinematics and Dynamics	T	3	0	0	3	3	20	80	3
2	1	23AR102	Lab: Robot Kinematics and Dynamics	**P**	0	0	2	2	1	60	40	
3	1	23AR103	Industrial Automation	T	3	0	0	3	3	20	80	3
4	1	23AR104	Automatic Control System	T	3	0	0	3	3	20	80	3
5	1	23AR105	Computer Aided Design	T	3	0	0	3	3	20	80	3
6	1	23AR106	Lab: Computer Aided Design	**P**	0	0	2	2	1	60	40	
7	1		**Professional Elective-I**	T	3	0	0	3	3	20	80	3
8	1		**Professional Elective- II**	T	3	0	0	3	3	20	80	3
Total					**18**	**0**	**4**	**22**	**20**			
List of Professional Electives-I												
1	1	23AR111	PE-I : Actuators and Drives									
2	1	23AR112	PE-I : Machine Learning									
3	1	23AR113	PE-I : Digital Image Processing and Machine vision									
List of Professional Elective- II												
1	1	23AR121	PE-II : Industry 4.0									
2	1	23AR122	PE-II : Sensor's Applications in Manufacturing									
3	1	23AR123	PE-II : Microprocessors and Micro- Controllers									
II SEMESTER												
1	2	23AR201	Robotics: Advanced Concepts and Analysis	T	3	0	0	3	3	20	80	3
2	2	23AR202	Lab: Robotics: Advanced Concepts and Analysis	**P**	0	0	2	2	1	60	40	
3	2	23AR203	Mechatronics System: Design And Analysis	T	3	0	0	3	3	20	80	3
4	2	23AR204	Lab: Mechatronics System: Design and Analysis	**P**	0	0	2	2	1	60	40	
5	2	23AR205	Aerial Robotics	T	3	0	0	3	3	20	80	3
6	2	23AR206	Minor Project	P	0	0	2	2	2	100		
7	2		**Professional Elective-III**	T	3	0	0	3	3	20	80	3
8	2		**Professional Elective-IV**	T	3	0	0	3	3	20	80	3
TOTAL					**15**	**0**	**6**	**21**	**19**			
List of Professional Electives-III												
1	2	23AR211	PE-III : Artificial Intelligence in Automation									
2	2	23AR212	PE-III : Modeling and Simulation of Mechatronic systems									
3	2	23AR213	PE-III : Advanced Manufacturing Techniques and Applications									
List of Professional Elective- IV												
1	2	23AR221	PE-IV : Industrial IOT									
2	2	23AR222	PE-IV : Additive Manufacturing									
3	2	23AR223	PE-IV : Product Design and Development									
III SEMESTER												
1	3	23AR301	Project Phase -I	P	0	0	16	16	8	100		
					0	**0**	**16**	**16**	**8**			
IV SEMESTER												
1	4	23AR401	Project Phase-II	P	0	0	24	24	12	60	40	
					0	**0**	**24**	**24**	**12**			
Grand Total of Credits					**33**	**0**	**50**	**83**	**59**			

		June,2023	**1.00**
Chairperson	**Dean (Acad. Matters)**	**Date of Release**	**Version**

Applicable for AY 2023-24 OnwarAR

Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

SoE No. 23IPS-101

M.TECH. SCHEME OF EXAMINATION 2023

Department of Electrical Engineering

M.Tech in Integrated Power Systems (IPS)

SN	Sem	Sub Code	Subject	T/P	Contact Hours				Credits	% Weightage		ESE Duration Hours
					L	T	P	Hrs		TA	ESE	
I SEMESTER												
1	1	23IPS101	Advanced Power Electronics	T	3	0	0	3	3	20	80	3
2	1	23IPS102	**Lab:** Advanced Power Electronics	P	0	0	4	4	2	60	40	
3	1	23IPS103	Analog & Digital Protection	T	3	0	0	3	3	20	80	3
4	1	23IPS104	**Lab:** Analog & Digital Protection	P	0	0	4	4	2	60	40	
5	1	23IPS105	Digital Control System	T	3	0	0	3	3	20	80	3
6	1	23IPS106	HVDC Power Transmission	T	3	0	0	3	3	20	80	3
7	1	23IPS107	Power System Modelling	T	3	0	0	3	3	20	80	3
8	1		**Professional Elective- I**	T	3	0	0	3	3	20	80	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

1	23IPS111	PE I: Electrical Drives and Controls
1	23IPS112	PE I: Lab: Electrical Drives and Controls
1	23IPS113	PE I: Renewable Energy System
1	23IPS114	PE I: Lab: Renewable Energy System

II SEMESTER												
1	2	23IPS201	Power System planning	T	3	0	0	3	3	20	80	3
2	2	23IPS202	Application of Power Electronics to Power System	T	3	0	0	3	3	20	80	3
3	2	23IPS203	Power Quality	T	3	0	0	3	3	20	80	3
4	2		**Professional Elective II**	T	3	0	0	3	3	20	80	3
5	2		**Professional Elective - III**	T	3	0	0	3	3	20	80	3
6	2		**Professional Elective - IV**	T	3	0	0	3	3	20	80	3
7	2	23IPS204	**Lab.:** Power System Simulation	P	0	0	4	4	2	60	40	
8	2	23IPS205	**Lab.:** Power System Design	P	0	0	4	4	2	60	40	
Total					**18**	**0**	**8**	**26**	**22**			

List of Professional Electives-II

2	23IPS211	PE II: Advanced Digital Signal Processing
2	23IPS212	PE II: EHV Power Transmission
2	23IPS213	PE II: Restructuring of Power System
2	23IPS214	PE II: Wide Area Monitoring and Control
2	23IPS215	PE II: Microgrid

List of Professional Electives-III

2	23IPS231	PE III : Power System Stability
2	23IPS232	PE III : Electrical Distribution Systems
2	23IPS233	PE III : Power System Operation and Control
2	23IPS234	PE III : Transients in Power Systems
2	23IPS235	PE III : Solar System Design

List of Professional Electives-IV

2	23IPS241	PE IV: Distributed Automation
2	23IPS242	PE IV: Power Electronics for Renewable Energy Systems
2	23IPS243	PE IV: Control System Design

III SEMESTER												
1	3	23IPS301	Project Phase -I	P	0	0	16	0	8	60	40	
Total					**0**	**0**	**16**	**0**	**8**			

IV SEMESTER												
1	4	23IPS401	Project Phase-II	P	0	0	24	24	12	60	40	
Total					**0**	**0**	**24**	**24**	**12**			
Grand Total of Credits									**66**			

		June,2023	1.00
Chairperson	**Dean (Acad. Matters)**	**Date of Release**	**Version**

Applicable for AY 2023-24 Onwards

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 2023

Department of Electronics Engineering

M.Tech in Electronics & Communication (VLSI Design)

SoE No. 23VD-101

Sl. No.	Sem	Course Code	Course Title	T/P	Contact Hours				Credits	% Weightage		ESE Duration Hrs.
					L	T	P	Hrs.		TA	ESE	
I SEMESTER												
1	1	23VD101	VLSI Signal Processing	T	3	0	0	3	3	20	80	3
2	1	23VD102	Digital IC Design	T	3	0	0	3	3	20	80	3
3	1	23VD103	VLSI Technology	T	3	0	0	3	3	20	80	3
4	1	23VD104	Embedded System & RTOS	T	3	0	0	3	3	20	80	3
5	1	23VD105	Advanced Digital System Design	T	3	0	0	3	3	20	80	3
6	1	23VD106	Sythesis & Optimisation of VLSI Circuits	T	3	0	0	3	3	20	80	3
7	1	23VD107	Embedded System & RTOS Laboratory	**P**	0	0	2	2	1	60	40	
8	1	23VD108	Digital IC Design Laboratory	**P**	0	0	2	2	1	60	40	
9	1	23VD109	Advanced Digital System Design Laboratory	**P**	0	0	2	2	1	60	40	
Total					**18**	**0**	**6**	**24**	**21**			
II SEMESTER												
1	2	23VD201	RF Circuit design	T	3	0	0	3	3	20	80	3
2	2	23VD202	Analog IC Design	T	3	0	0	3	3	20	80	3
3	2	23VD203	System Verilog for Verification	T	3	0	0	3	3	20	80	3
4	2		**Professional Elective-I**	T	3	0	0	3	3	20	80	3
5	2		**Professional Elective-II**	T	3	0	0	3	3	20	80	3
6	2		**Professional Elective-III**	T	3	0	0	3	3	20	80	3
7	2	23VD204	RF Circuit design Laboratory	**P**	0	0	2	2	1	60	40	
8	2	23VD205	Analog IC Design Laboratory	**P**	0	0	2	2	1	60	40	
TOTAL					**18**	**0**	**4**	**22**	**20**			

List of Professional Electives-I

1	2	23VD211	PE-I : Low Power CMOS VLSI Design									
2	2	23VD212	PE-I : ASIC Design									

List of Professional Elective- II

1	2	23VD221	PE-II : Verification & Testing of VLSI Circuit									
2	2	23VD222	PE-II : Mixed Signal VLSI Design									

List of Professional Elective- III

1	2	23VD231	PE-III : MEMS Design and Fabrication									
2	2	23VD232	PE-III : Nano Scale MOS Transistors									

III SEMESTER												
1	3	23VD301	Project Phase -I	P	0	0	16	16	8	100		
					0	**0**	**16**	**16**	**8**			
IV SEMESTER												
1	4	23VD401	Project Phase-II	P	0	0	24	24	12	60	40	
					0	**0**	**24**	**24**	**12**			
Grand Total of Credits					**36**	**0**	**50**	**86**	**61**			

		June,2023	**1.00**
Chairperson	**Dean (Acad. Matters)**	**Date of Release**	**Version**

Applicable for AY 2023-24 OnwarAR

Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

SoE No. 23COM-101

M.TECH. SCHEME OF EXAMINATION 2023

Department of Electronics & Telecommunication Engineering

M. Tech. in Communication Engineering

SN	Sem	Sub Code	Subject	T/P	Contact Hours				Credits	% Weightage		ESE Duration Hours
					L	T	P	Hrs		TA	ESE	
I SEMESTER												
1	1	23COM101	Probability & Stochastic Processes	T	3	0	0	3	3	20	80	3 Hours
2	1	23COM102	Passive RF Circuits & Systems	T	3	0	0	3	3	20	80	3 Hours
3	1	23COM103	**Lab:** Passive RF Circuits & Systems	P	0	0	2	2	1	60	40	
4	1	23COM104	Advanced Digital Communication	T	3	0	0	3	3	20	80	3 Hours
5	1	23COM105	**Lab:** Advanced Digital Communication	P	0	0	2	2	1	60	40	
6	1	23COM106	Adaptive Signal Processing	T	3	0	0	3	3	20	80	3 Hours
7	1	23COM107	**Lab:** Adaptive Signal Processing	P	0	0	2	2	1	60	40	
8	1		**Professional Elective- I**	**T**	3	0	0	3	3	20	80	3 Hours
9	1		**Professional Elective- II**	**T**	3	0	0	3	3	20	80	3 Hours
Total					**18**	**0**	**6**	**24**	**21**			

List of Professional Electives-I		
1	23COM111	PE I: Optical Communication &
1	23COM112	PE I: RISC & CISC Processor

List of Professional Electives-II		
1	23COM121	PE II: Active RF Devices and Circuits
1	23COM123	PE II: Soft Computing

II SEMESTER												
1	2	23COM201	Antenna Design	T	3	0	0	3	3	20	80	3 Hours
2	2	23COM202	**Lab:** Antenna Design	P	0	0	2	2	1	60	40	
3	2	23COM203	VLSI Signal Processing	T	3	0	0	3	3	20	80	3 Hours
4	2	23COM204	Digital Image and Video processing	T	3	0	0	3	3	20	80	3 Hours
5	2	23COM205	**Lab:** Digital Image and Video processing	P	0	0	2	2	1	60	40	
6	2	23COM206	Wireless Communication Network	T	3	0	0	3	3	20	80	3 Hours
7	2		**Professional Elective -III**	T	3	0	0	3	3	20	80	3 Hours
8	2		**Professional Elective -IV**	T	3	0	0	3	3	20	80	3 Hours
9	2	23COM207	Seminar	P	0	0	2	2	1	60	40	
Total					**18**	**0**	**6**	**24**	**21**			

List of Professional Electives-III		
2	23COM211	PE III: Millimeter wave communication
2	23COM212	PE III: Real Time Operating System

List of Professional Electives-IV		
2	23COM231	PE IV: Selected Topics in
2	23COM232	PE IV: Micro Electro Mechanical

III SEMESTER												
3	3	23COM301	Project Phase-I	P	0	0	16	16	8	60	40	
Total					**0**	**0**	**16**	**16**	**8**			
IV SEMESTER												
1	4	23COM401	Project Phase-II	P	0	0	24	24	12	60	40	
Total					**0**	**0**	**24**	**24**	**12**			
Grand Total of Credits					**36**	**0**	**52**	**88**	62			

		June, 2023	**1.00**
Chairperson	**Dean (Acad. Matters)**	**Date of Release**	**Version**

Applicable for AY 2023-24 Onwards

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 2023

Department of Computer Technology

M.Tech in Data Science

SoE No. 23DS-101

Sl. No.	Sem	Course Code	Course Title	T/P	Contact Hours				Credits	% Weightage		ESE Duration Hrs.
					L	T	P	Hrs.		TA	ESE	
I SEMESTER												
1	1	23DS101	Probability and Statistics	T	3	0	0	3	3	20	80	3
2	1	23DS102	Mathematics for Data Science	T	3	0	0	3	3	20	80	3
3	1	23DS103	Data Mining and Warehousing	T	3	0	0	3	3	20	80	3
4	1	23DS104	Data Preparation and Mining **Lab**	P	0	0	2	2	1	60	40	
5	1	23DS105	Python for Data Science **Lab**	P	0	0	2	2	2	60	40	
6	1	23DS106	Data Visualization and Analytics **Lab**	P	0	0	2	2	2	60	40	
7	1	23DS107	Seminar-I	P	0	0	2	2	1	100		1
8	1		**Professional Elective-I**	T	3	0	0	3	3	20	80	3
9	1		**Professional Elective- II**	T	3	0	0	3	3	20	80	3
Total					**15**	**0**	**8**	**23**	**21**			
List of Professional Electives-I												
1	1	23DS111	PE I: Image Computing									
2	1	23DS112	PE I: Distributed Systems									
3	1	23DS113	PE I: Graph Mining									
List of Professional Elective- II												
1	1	23DS121	PE II: Natural Language Processing									
2	1	23DS122	PE II: Time Series and Forecasting									
3	1	23DS123	PE II: Classical Optimization									
II SEMESTER												
1	2	23DS201	Fundamentals of Machine Learning and Deep Learning	T	3	0	0	3	3	20	80	3
2	2	23DS202	Fundamentals of Machine Learning and Deep Learning Lab	P	0	0	2	2	1	60	40	
3	2	23DS203	Big Data Analytics	T	3	0	0	3	3	20	80	3
4	2	23DS204	Big Data Analytics Lab	P	0	0	2	2	1	60	40	
5	2	23DS205	Data Modeling	T	3	0	0	3	3	20	80	3
6	2	23DS206	Seminar-II	P	0	0	2	2	1	100		1
7	2	23DS207	Open Source Tools for Data Analysis Lab	P	0	0	2	2	2	60	40	
8	2	23DS208	Prompt Engineering for Data Analysis Lab	P	0	0	2	2	2	60	40	
9	2		**Professional Elective-III**	T	3	0	0	3	3	20	80	3
10	2		**Professional Elective-IV**	T	3	0	0	3	3	20	80	3
TOTAL					**15**	**0**	**10**	**25**	**22**			
List of Professional Electives-III												
1	2	23DS211	PE III: Computer Vision									
2	2	23DS212	PE III: Cloud Fundamentals for Data Science									
3	2	23DS213	PE III: Social Network Analysis									
List of Professional Elective- IV												
1	2	23DS221	PE IV: Text Analytics									
2	2	23DS222	PE IV: Information Retrival and Recommendation									
3	2	23DS223	PE IV: Non Classical Optimization									
III SEMESTER												
1	3	23DS301	Project Phase -I	P	0	0	16	16	10	100		
					0	**0**	**16**	**16**	**10**			
IV SEMESTER												
1	4	23DS401	Project Phase-II	P	0	0	24	24	12	60	40	
					0	**0**	**24**	**24**	**12**			
Grand Total of Credits					**30**	**0**	**58**	**88**	**65**			

		June,2023	**1.00**	**Applicable for AY 2023-24 Onwards**
Chairperson	**Dean (Acad. Matters)**	**Date of Release**	**Version**	