



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

2020-21

## Summary

### 1.1.2 Percentage of Programmes where syllabus revision was carried out during the last five years

- Minutes of Academic Council/BOS meeting
- Details of program syllabus revision in last 5 years



(Dr. U.P. Waghe)

Principal, Y.C.C.E.

Principal

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

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## Minutes of 23<sup>rd</sup> Emergent meeting of Academic Council held on 03<sup>rd</sup> June 2020

The 23<sup>rd</sup> emergent meeting of Academic Council was held on 03<sup>rd</sup> June 2020 at 03.00 pm through video conferencing mode using Zoom Online Platform. The following members attended the meeting.

1	Dr. U.P. Waghe, Principal & Chairman	14	Dr. R.C. Dharmik, HoD, Information Technology
2	Dr. Rajesh Pande, Principal, Shri Ramdeobaba College of Engineering and Management, Nagpur	15	Dr. Mrs. Manjusha P. Gandhi, HoD Mathematics and Humanities
3	Prof. Dr. N.C. Sivaprakash I,I,Sc., Bangalore	16	Dr. J.R. Ghulghule, HoD Physics
4	Dr. Hemant Hajare, ITM College of Engineering, Nagpur	17	Dr. Mrs. P.U. Waghe, HoD, Chemistry
5	Mr. Sameer Bendre, Chief People Officer, Persistent System Ltd., Nagpur	18	Dr. P.K. Dakhole, Registrar, YCCE
6	Mr. Priyardarshan Kshirsagar, Senior General Manager, PLO PL, EVB Unit Tata Motors Ltd., Pune	19	Dr. Arvind Bhagatpatil, Dean (P & D)
7	Dr. N.G. Bawane, Principal, Jhulelal Institute of Technology, Nagpur	20	Prof. D.R. Raut, COE, YCCE,
8	Dr. S. R. Khandeshwar, HoD, Civil Engineering	21	Dr. A.M. Pande, Professor in Civil Engg, YCCE and Director (R&D)
9	Dr. S. S. Chaudhary, HoD, Mechanical Engineering	22	Dr. A.V. Patil, Professor, Civil Engineering, YCCE
10	Dr. Mrs. S. P. Adhau , HoD 's representative , Electrical Engineering	23	Dr. R.D. Thakare, Professor, Electrical Engineering, YCCE
11	Dr. P.T. Karule, HoD Electronics Engineering	24	Prof. Aniket P. Munshi, Electrical Engineering ,YCCE
12	Dr. M.S. Narlawar, HoD, Electronics & Telecommunication Engineering	25	Dr. A.V. Bapat, Dean (Acad. Mat.) & Member Secretary
13	Dr. Mrs. G.M. Dhopavkar, HoD Computer Technology		



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## Item 23.01: Welcome of New members

*The Chairman of the Academic Council, Dr. U.P. Waghe welcomed the members of the Academic Council.*

## Item 23.02 To confirm the Minutes of 22<sup>nd</sup> Meeting of the Academic Council

*The Academic Council unanimously approved the minutes of 22<sup>nd</sup> meeting of Academic Council held on 14<sup>th</sup> March 2020.*

## Item 23.03 To discuss and approve the minutes of Examination committee regarding conduct of Examinations in view of COVID19 Pandemic

*The minutes of the 10<sup>th</sup> Examination committee was presented before Academic council*

*The Academic Council discussed the issue related to COVID 19 and its impact on conduct of Examination in general and End Semester Examinations in particular.*

*The academic council accepted the minutes of Examination committee*

*In view of possible directions/guidelines that are likely to be issued in future by Govt. of Maharashtra and RTM NU, Nagpur, Academic council authorized Chairman academic council to take appropriate decision in this regard.*

## Item 23.04 To discuss and approve change in weightage of Continuous Assessment and End semester examination from 40:60 to 60:40 and allot 20% weightage for class/lecture Quizzes

*The Academic Council discussed the issue and was unanimous on increasing weightage on continuous assessment.*

*The academic council approved the weightage of continuous assessment to 60% and End Semester Examination to 40%.*

*The new weightage will be*

*MSEs 30% Teacher assessment 10% class/ lecture quizzes 20% and ESE 40%.*

*The academic council also approved that minimum 20% marks shall be obtained by the students in End Sem examination as a requisite to Pass in that course.*



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- Item 23.05 Discuss and approve revision in Titles of Honors and Minor courses**  
*The Academic Council approved the revision of titles of Honors and Minor courses. Academic council directed to ratify the same from respective BoS.*
- Item 23.06 Discuss and approve use of minimum 20% NPTEL courses having good mapping with existing courses, as per directives from AICTE/Govt of Maharashtra**  
*The Academic Council discussed the issue, It has approved to implement the directives issued by AICTE/Govt. of Maharashtra. It has directed to ensure that the Video lectures of the NPTEL courses that are offered are available.*
- Item 23.07 Any other matter with the permission of the Chair**  
*Dr. Rajesh Pande suggested that in case online examination is to be conducted then it should be AI proctored examination.*  
*Mr. Sameer Bendre suggested that conducting online examination should be last priority as conducting ESE using pen and paper method is better way.*  
*Dr. N. G. Bawane suggested that the college should inform to RTM NU regarding actual conduct of examination from time to time.*  
*Dr. N C Shivaprakash, who actively participates in the meeting, suggested to check guidelines of BATU. It was suggested that college should be prepared for conduct of both types of examination online and pen and paper method using all norms required for COVID19 including social distancing.*

As there was no other point for the discussion, the meeting was adjourned.

The meeting concluded with thanks to the Chair.

Date: 04<sup>th</sup> June 2020

  
(Dr. A.V. Bapat)  
Member Secretary

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## Minutes of 24<sup>th</sup> meeting of Academic Council held on 7<sup>th</sup> November, 2020

The 24<sup>th</sup> meeting of Academic Council was held on 7<sup>th</sup> November, 2020 at 11.00 am through video conferencing mode using google meet Online Platform. The following members attended the meeting.

1	Dr. U.P. Waghe, Principal & Chairman	14	Dr. R.C. Dharmik, HoD, Information Technology
2	Dr. Rajesh Pande, Principal, Shri Ramdeobaba College of Engineering and Management, Nagpur	15	Dr. Mrs. Manjusha P. Gandhi, HoD Mathematics and Humanities
3	Prof. Dr. N.C. Sivaprakash I,I,Sc., Bangalore	16	Dr. J.R. Ghulghule, HoD Physics
4	Dr. Hemant Hajare, ITM College of Engineering, Nagpur	17	Dr. Mrs. P.U. Waghe, HoD, Chemistry
5	Mr. Sameer Bendre, Chief People Officer, Persistent System Ltd., Nagpur	18	Dr. P.K. Dakhole, Registrar, YCCE
6	Mr. Priyadarshan Kshirsagar, Senior General Manager, PLO PL, EVB Unit Tata Motors Ltd., Pune	19	Dr. Arvind Bhagatpatil, Dean (P & D)
7	Dr. N.G. Bawane, Principal, Jhulelal Institute of Technology, Nagpur	20	Prof. D.R. Raut, COE, YCCE,
8	Dr. V.G. Meshram HoD, Civil Engineering	21	Dr. A.M. Pande, Professor in Civil Engg, YCCE and Director (R&D)
9	Dr. S. S. Chaudhary, HoD, Mechanical Engineering	22	Dr. A.V. Patil, Professor, Civil Engineering, YCCE
10	Dr. Mrs. S. P. Adhau , HoD 's representative , Electrical Engineering	23	Dr. R.D. Thakare, Professor, Electrical Engineering, YCCE
11	Dr. P.T. Karule, HoD Electronics Engineering	24	Prof. Aniket P. Munshi, Electrical Engineering ,YCCE
12	Dr. M.S. Narlawar, HoD, Electronics & Telecommunication Engineering	25	Dr. A.V. Bapat, Dean (Acad. Mat.) & Member Secretary
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## Item 24.01: Welcome of New members

*The Chairman of the Academic Council, Dr. U.P. Waghe welcomed the members of the Academic Council.*

## Item 24.02 To confirm the Minutes of 23<sup>rd</sup> Emerging Meeting of the Academic Council

*The Academic Council unanimously approved the minutes of 23<sup>rd</sup> emergent meeting of Academic Council held on 3<sup>rd</sup> June, 2020.*

## Item 24.03 To discuss and approve the suggestions of Board of Studies for changes in Schemes of Examination and course contents of Autonomous 2014 and Autonomous 2018 scheme for UG and PG Programs

The Chairpersons of various Boards of Studies presented the minutes of the meetings to Academic Council.

The changes proposed by various boards regarding the syllabi of the courses of "Autonomous 2014" and "Autonomous 2018" scheme as below :-

### ❖ The minor changes in the course contents suggested by the BoS as below UG

Branch	SoE	Sem	Course Code & Name
Mechanical Engg.	2018	3	ME-2201 Material Science & Metallurgy
Electrical Engg.	2014	8	EL1437: Electric Vehicles
	2018	6	EL2353: Power System Analysis
Electronic & Telecomm. Engg.	2018	3	ET 2254 : Analog communication
	2018	3	ET 2201: Electronic Devices and Circuits
Computer Tech.	2018	4	CT 2257: Database Management Systems
	2018	5	CT 2315: PE I: Advanced Web Technologies
	2018	3	CT 2204: Data Structure Data Structures
	2018	5	CT 2301: Computer Networks
	2014	7	CT1451: Artificial Intelligence
Information Tech.	2018	3	IT2207- Computer Architecture & Organization
	2018	5	IT2303- Software Engineering
	2018	5	IT2311- PE I: Web Programming
	2014	7	IT1422- Network Security

### ❖ The changes in the Books suggested by the BoS as below

Branch	SoE	Sem	Course Code & Name



❖ The changes in the laboratory Courses suggested by the BoS as below

Branch	SoE	Sem	Course Code & Name
Electronic & Telecomm. Engg.	2018	3	ET 2254 : Analog communication
	2018	3	ET 2201: Electronic Devices and Circuits

❖ Following MOOC'S courses are suggest by BoS Mechanical for students from the session 202-21.

Branch	CourseName
Mechanical Engg.	Mathematical Modeling Of Manufacturing Processes
	RapidManufacturing
	Heat Exchangers: Fundamentals and Design Analysis
	Fundamentals of Surface Engineering:
	Work System Design
Computer Tech.	Randomized Algorithms

*The Academic Council approved changes in course contents and changes in the text/reference books, laboratory and MOOC'S Courses for the courses mentioned above. These changes will be incorporated with immediate effect.*

**Item 24.04** To discuss and finalize the changes, if any, in Academic Regulations  
*The academic council approved the modification in Academic Regulation in the clause of evaluation for continuous assessment to 60% and End Semester Examination to 40%. The relative weightage is 30% for TA (for Theory: 20 marks on lecture quizzes, 8 marks on assignments, 2 marks on class performance), 30% on mid semester examinations.*

*The Academic Council also approved that minimum 20% marks shall be obtained by the students in end semester examination as a requisite to pass in that course.*

**Item 24.05** To discuss and approve the report of Controller of Examinations for Even Term 2019-20 including the list of candidates who have become eligible for award of UG and PG degrees

The report of the Controller of Examinations was put up before the members of the Council. Members discussed and accepted

*The Academic Council accepted the report of Controller of Examinations for the Even Term of 2019-20 and suggested following correction.*

- *8 semester results date mentioned 21-22 November,2020 instead of October. (correction made in COE report)*
- *Remove the coloum of PG closure course name. (Production and VISI)*





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- **List of students in COE report point no.3 is eligible for degree after EVN-ESE-2019-20, suggested to insert additional column of number of students appearing for final year examination.**

## **Item 24.06 To discuss and approve the changes, if any, in Examination Manual.**

In view of unprecedented situation arised because of CORONA PANDEMIC, UGC, Govt. of Maharashtra and RTMNU issued various guidelines and directions. On the basis of the same some certain directions were issued by Principal YCCE for smooth conduct of examinations. These are as below:-

- 1) Direction No 2 of 2019 for Guidelines for preparing result of ESE\_Even 2019-20  
In view of lockdown due to COVID-19 Pandemic, w.r.t. Government of Maharashtra and RTMNU directives:  
The Direction is called as " Guidelines for calculating result of ESE\_Even 2019-20 in view of COVID-19 Pandemic, w.r.t. Government of Maharashtra and. RTMNU Notification 2020/60 dated 15-05-2020:" and is being issued to facilitate result of 2nd,4th, and 6th Semester Regular students BE and M Tech 2nd Semester Regular students as a special case due to COVID-19 Pandemic Under guidelines published by UGC, Government of Maharashtra, RTM Nagpur University Nagpur.
- 2) Direction No. 3 of 2019 for Undergoing MCQ type- online End Semester Examination for EVEN Term Session 2019-20 (On Google Classroom-Meet Platform).  
The Direction will be called as " MCQ type- online End Semester Examination for EVEN Term Session 2019-20 (On Google Classroom-Meet Platform)" and is being issued to facilitate 8th Semester Regular students and Ex-students of Semester 1 to Semester 8 BE and M Tech Semester 4 Regular students and Ex-students of 1 to 4th semester M Tech.  
as a special case due to COVID-19 Pandemic Under guidelines published by UGC, Government of Maharashtra, RTM Nagpur University Nagpur.
- 3) Direction No. 1 of 2020 for Award of Grace Marks for passing an examination. The direction shall come into effect from ODD term 2020-21 examiantion.
- 4) Direction No. 2 of 2020 for Guidelines for conduct of ESE Odd 20-21 on-line in view of lockdown due to COVID-19 Pandemic, w.r.t. Government of Maharashtra and RTMNU directives:  
The Direction will be called as "Guidelines for conduct of ESE Odd 20-21 on-line in view of lockdown due to COVID-19 Pandemic, w.r.t. Government of Maharashtra and. RTMNU Notification 2020/60 dated 15-05-2020:" and is being issued to facilitate 3rd, 5th, 7th Semester Regular students BE and Ex- students BE & M Tech as a special case due to COVID-19 Pandemic Under guidelines published by UGC, Government of Maharashtra, RTM Nagpur University Nagpur.

## **Item 24.07 To discuss and approve the report of Dean (Academic Matters) for Even Term 2019-20.**

The report of the Dean (Academic Matters) was put before the members and discussed.

***The Academic Council approved the report of the Dean (Academic Matters) for the Even Term of 2019-20.***



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- Item 24.08** To discuss and approve the report of Research Centre Activities for Even Term 2019-20.
- The report of the Research Centre Activities was put before the members and discussed. It was suggested to increase number of faculty for registration in Ph.D. programmes
- The report Research Centre Activities for Odd Term 2019-20 was approved by the Academic Council.***
- Item 24.09** To discuss and approve the report of the Training and Placement Officer for Even Term 2019-20.
- The report of the Training and Placement Office was put before the members and discussed. Academic Council suggested to higher packages*
- It was suggested to change the nomenclature of Training and Placement and should be called as a Career Guidance Cell (CGC).***
- The report of Training and Placement Office for Even Term 2019-20 was approved by the Academic Council***
- Item 24.10** To discuss and approve the Annual report of IQAC (Internal Quality Assurance Cell) for session 2019-20
- The report of the IQAC (Internal Quality Assurance Cell) for session 2019-20 was put before the members and discussed.
- It was suggested to improve in Research, Innovation, Startup and Entrepreneurship (YCCE-RISE)***
- The report of IQAC (Internal Quality Assurance Cell) for session 2019-20 was approved by the Academic Council***
- Item 24.11** To discuss and approve -- Reduction in Intake of UG Programmes
- The issue was discussed.
- The Academic Council approved reduction in intake of UG Programme in BE Mechanical Engg. And—BE in Electronics and Telecommunication Engg. from Academic year 2021-22***



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### Item 24.12 To discuss and approve – Starting of new UG &PG Programmes

The issue was discussed.

*The Academic Council approved Starting of new UG Programmes 1) Computer Science and Engineering (Artificial Intelligence and Machine Learning), 2) Computer Science and Engineering (Data Science) & PG Programme 1) Power System and Renewable Energy, 2) Computer Vision and Image Processing and 3) Automation and Robotics from Academic year 2021-22. Mr. Samir Bendre suggested to start Solar Energy related courses*

### Item 24.13 To discuss and approve – Closure of PG Programme

The issue was discussed.

*The Academic Council approved Closure of PG Programme: M.Tech. in CAD/CAM, M. Tech. in Integrated Power System (IPS), M. Tech. in Communication Engineering and M. Tech. in Environmental Engineering from Academic year 2021-22*

### Item 24.14 To discuss and approve formation of Board of Studies in Computer Science and Engineering

The issue was discussed.

*The Academic Council approved formation of Board of Studies in Computer Science and Engineering.*

### Item 24.15 Any other matter with the permission of the chair.

As there was no other point for the discussion, the meeting was adjourned.

The meeting concluded with thanks to the Chair.

Date: 9<sup>th</sup> November, 2020

(Dr. A.V. Bapat)  
Member Secretary

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## Minutes of 25<sup>th</sup> meeting of Academic Council held on 13<sup>th</sup> March, 2021

The 25<sup>th</sup> meeting of Academic Council was held on 13<sup>th</sup> March, 2021 at 11.00 am through video conferencing mode using google meet Online Platform. The following members attended the meeting.

1	Dr. U.P. Waghe, Principal & Chairman	14	Dr. Mrs. Manjusha P. Gandhi, HoD Mathematics and Humanities
2	Prof. Dr. N.C. Sivaprakash I,I,Sc., Bangalore	15	Dr. J.R. Ghulghule, HoD Physics
3	Dr. Hemant Hajare, ITM College of Engineering, Nagpur	16	Dr. Mrs. P.U. Waghe, HoD, Chemistry
4	Mr. Sameer Bendre, Chief People Officer,	17	Dr. P.K. Dakhole, Registrar, YCCE
5	Mr. Priyadarshan Kshirsagar, Senior General Manager, PLO PL, EVB Unit Tata Motors Ltd., Pune	18	Dr. Arvind Bhagatpatil, Dean (P & D)
6	Dr. N.G. Bawane, Principal, Jhulelal Institute of Technology, Nagpur	19	Prof. D.R. Raut, COE, YCCE,
7	Dr. V.G. Meshram HoD, Civil Engineering	20	Dr. A.M. Pande, Professor in Civil Engg, YCCE and Director (R&D)
8	Dr. S. S. Chaudhary, HoD, Mechanical Engineering	21	Dr. R.D. Thakare, Professor, Electrical Engineering, YCCE
9	Dr. Mrs. S. P. Adhau , HoD 's representative , Electrical Engineering	22	Prof. Aniket P. Munshi, Electrical Engineering ,YCCE
10	Dr. P.T. Karule, HoD Electronics Engineering	23	Dr. A.V. Patil, Dean (Acad. Mat.) & Member Secretary
11	Dr. M.S. Narlawar, HoD, Electronics & Telecommunication Engineering		
12	Dr. Mrs. G.M. Dhopavkar, HoD Computer Technology		
13	Dr. R.C. Dhamik, HoD, Information Technology		

### Leave of Absence granted to

1	Dr. Rajesh Pande, Principal, Shri Ramdeobaba College of Engineering and Management, Nagpur	2	Mr. Milind Kank, Managing Director, Yeshshree Industries Ltd., Aurangabad
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Item 25.01: Welcome of members

*The Chairman of the Academic Council, Dr. U.P. Waghe welcomed the members of the Academic Council.*

Item 25.02 To confirm the Minutes of 24<sup>th</sup> Meeting of the Academic Council

*The Academic Council unanimously approved the minutes of 24<sup>th</sup> meeting of Academic Council held on 7<sup>TH</sup> November, 2020 on online mode*

**Item 25.03 To discuss and approve the suggestions of Board of Studies for changes in Schemes of Examination and course contents of Autonomous 2014 and Autonomous 2018 scheme for UG and PG Programs**

The Chairpersons of various Boards of Studies presented the minutes of the meetings to Academic Council.

The changes proposed by various boards regarding the syllabi of the courses of "Autonomous 2014" and "Autonomous 2018" scheme as below :-

❖ The minor changes in the course contents suggested by the BoS as below  
UG

Branch	SoE	Sem	Course Code & Name
Mechanical Engg.	2018	4	ME2252 Engineering Thermodynamics
	2014	8	New PEIV-Earth Moving Equipment
Computer Tech.	2018	3	CT 2202 Object Oriented programming
	2018	5	CT 2301 Computer Networks
Information Tech.	2018	5	IT-2331: OE- II: Machine Learning
	2018	6	IT2361: PE-II Machine Learning
	2018	7	IT2412 :PE-III – Real Time Systems
	2018	7	IT2413: PE-III– Network Security
	2018	7	IT2414 – Information Retrieval
	2018	7	IT2421 – (PEIV) Neural Network and Fuzzy Logic
	2018	7	IT2422 – (PEIV) LAB: Neural Network and Fuzzy
	2018	7	IT2432 – Distributed Systems
	2018	7	PE-VI-IT2444 – Natural Language Processing
	Electronic & Telecomm. Engg.	2018	5
Electrical Engg.	2018	8	EL1436: PE IV : Fundamentals of Smart Grid
Electronics Engg.	2018	5	EE 2311- PE I: Computer Communication Network
	2018	1 <sup>st</sup>	EE2101 Basic Electronics.

### Honor courses

Branch	SoE	Sem	Course Code & Name
Electronic & Telecomm. Engg.	2020	5	ET2502: Industrial Automation and Robotics



❖ The changes in the Books suggested by the BoS as below

Branch	SoE	Sem	Course Code & Name
Information Tech.	2018		IT2413: PE-III– Network Security: Add Behrouz A. Forouzan Book Add Stinson book as Reference IT2422 – (PEIV) LAB: Neural Network and Fuzzy Logic:

❖ The changes in the laboratory Courses suggested by the BoS as below

Branch	SoE	Sem	Course Code & Name

❖ Following MOOC'S courses are suggest by BoS Mechanical for students from the session 202-21.

Branch	Course Name
Mechanical Engg.	Mathematical Modeling Of Manufacturing Processes
	Rapid Manufacturing
	Heat Exchangers: Fundamentals and Design Analysis
	Fundamentals of Surface Engineering: Work System Design
Electrical Engg.	Electrical Energy Generation System
	Illumination Engineering
	Renewable Energy Sources
Civil Engg.	CV2251 Concrete technology
	CV2355 Foundation Engineering
	CV1450 Watershed Management

*The Academic Council approved changes in course contents and changes in the text/reference books, laboratory and MOOC'S Courses for the courses mentioned above. These changes will be incorporated with immediate effect.*

**Item 25.04** To discuss and finalize the changes, if any, in Academic Regulations

No changes in Academic Regulations

**Item 25.05** To discuss and approve the report of Controller of Examinations for Odd Term 2020-21 including the list of candidates who have become eligible for award of UG and PG degrees

The report of the Controller of Examinations was put up before the members of the Council. Members discussed and accepted



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- Item 25.06 To discuss and approve the changes, if any, in Examination Manual.**  
In view of unprecedented situation arisen because of CORONA PANDEMIC, UGC, Govt. of Maharashtra and RTMNU issued various guidelines and directions. On the basis of the same, some certain directions were issued by Principal YCCE for smooth conduct of examinations and were put up before the members of academic council. Academic Council discussed and approved the same.  
**These Principal Directions were added to Examination Manual as appendices.**
- Item 25.07 To discuss and approve the report of Dean (Academic Matters) for Odd Term 2020-21.**  
The report of the Dean (Academic Matters) was put before the members and discussed.  
***The Academic Council approved the report of the Dean (Academic Matters) for the Odd Term of 2020-21.***
- Item 25.08 To discuss and approve the report of Research Centre Activities for Odd Term 2020-21.**  
The report of the Research Centre Activities was put before the members. The report Research Centre Activities for Odd Term 2020-21 was approved by the Academic Council.
- Item 25.09 To discuss and approve the report of the Training and Placement Officer for Odd Term 2020-21.**  
The report of the Training and Placement Office was put before the members. The report of Training and Placement Office for Odd Term 2020-21 was approved by the Academic Council
- Item 25.10 To discuss new UG/PG programme for A.Y. 2021-22 and certificate courses for the A.Y. 2020-21**  
The issue of proposing new UG/PG programme was put before the academic council members and was discussed. The Academic Council was requested to authorize Chariman to decide on new UG/PG programme as per the AICTE guidelines issued from time to time.  
**The academic council unanimously authorized The Chairman, Academic Council to take appropriate decisions for inclusion of new UG/PG programmes for AY 2021-21 in view of dynamic AICTE Guidelines.**



Nagar Yuwak Shikshan Sanstha's

# Yeshwantrao Chavan College of Engineering

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

(Accredited 'A' Grade by NAAC with a score of 3.25)

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## The Academic Council approved Starting of following new Certificate courses

1.	Certificate course in Introduction to STADDPRO.
2.	Certificate course in Introduction to Total Station
3.	AVEVA Bocad Roof and Wall Basics
4.	Certificate course in IoT Programming
5.	Certificate course in Applications of AURDINO in Electrical Engineering
6.	Certificate course in Digital manufacturing and machine learning
7.	Certificate course in Pipe design and simulation
8.	Certificate course in Entrepreneurship development
9.	Certificate course in Applied Machine Learning
10.	Certificate course in Python Programming
11.	Certificate course in Design , Fabrication and Testing of Antenna and Design Issues in Modern Antenna of duration
12.	Certificate course in Image processing and Computer Vision
13.	Certificate course in Implementation of CMOS VLSI and DSD
14.	Certificate course in Advances in Embedded systems and IoT
15.	Certificate course in Applications of AIML & DS
16.	Certificate course in Cyber forensics
17.	Certificate course in Internet of Things
18.	Certificate course in Python Programming

## The Academic Council approved Starting of following new Honor and Minor Programmes

### HONOR COURSES PROPOSED FOR 2021-22

SN	DEPARTMENT	TITLE OF COURSE	CREDITS	DESCRIPTION	Remarks
1	Civil Engineering	B.E Hons in Remote Sensing & GIS	18	Department	
		B.E Hons in Construction Technology	18	Industry Associated	Ceinsys Ltd
		B.E Hons in Water and Wastewater Technology	18	NPTEL Based	
2	Mechanical Engineering	B.E. Hons in Advanced Dynamics	18	Department	
		B.E. Hons in Subtractive And Additive Manufacturing	19	Industry Associated	MTAB Engg. Pvt. Lt. Chennai, Altem Technologies Pvt. Ltd. Pune)
		B.E. Hons in Advanced Heat Transfer	18	NPTEL Based	
3	Electrical Engineering	B.E. Hons in Microgrid Technologies	18	Department	
		B.E. Hons in Renewable Energy System	18	Department	
		B.E. Hons in Embeded Systems	18	NPTEL Based	
4	Electronics Engineering	B.E. Hons in Wireless Communication	18	Department	
		B.E. Hons in VLSI Design	18	Industry Associated	Intel Bangalore
		B.E. Hons in Cryptography	18	NPTEL Based	
5	Electronics & telecommunicati on Engineering	B.E. Hons in Advanced Communication	18	Department	
		B.E. Hons in Automation and Computer Vision	18	Industry Associated	Fireblaze Technologies, Nagpur
		B.E. Hons in VLSI Design	18	NPTEL Based	





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6	COMPUTER TECHNOLOGY	B.E. Hons in Artificial Intelligence and Machine Learning		Department	
		B.E. Hons in Full Stack Web Development	18	Industry Associated	TCS, Infosys, Smarttalk
		B.E. Hons in Business and Statistical Data Analytics	18	NPTEL Based	
7	INFORMATION TECHNOLOGY	B.E. Hons in Data Sciences and Machine Learning	18	Department	
		B.E. Hons in Cyber Security	18	Industry Associated	CryptoForensic
		B.E. Hons in Soft Computing	18	NPTEL Based	

**MINOR COURSES PROPOSED FOR 2021-22**

SN	DEPARTMENT	TITLE OF COURSE	CREDITS	DESCRIPTION Department, Industry, NPTEL	Remarks
1	Civil Engineering	B.E Minors Introduction to Civil Engineering	18	Department	
2	Mechanical Engineering	B.E. Minors in Integrated Manufacturing And Machine Learning	18	Department	
3	Electrical Engineering	B.E. Minors in Electric Vehicles	18	Department	
4	Electronics Engineering	B.E. Minors in Electronics Engineering (IoT)	18	Department	
5	Electronics & telecom. Engineering	B.E. Minors in DSP and Embedded System	18	Department	
	Computer Technology	B.E. Minors in Computer Technology		Department	
6	Information Technology	B.E. Minor in Cloud Computing and Big Data Analytics	18	Department	
7	General Science, Humanities	B.E. Minors in Introduction to Corporate Management	18	Associated with other Institute	DMIMS Nagpur
		B.E. Minors in Introduction to Foreign Languages	18	Industry Associated	INNOVINC Nagpur

**Item 25.11** To discuss RTMNU directions for admitting students for Ph.D. programs under autonomy, conducting PET examination and permitting the students to have B.E. degree with Minor/ Honors or Major/Honors.

The issue was discussed.

*The Academic Council approved to conduct Ph.D. programs under autonomy, conducting PET examination and permitting the students to have B.E. degree with Minor/ Honors or Major/Honors as per following direction*

1. Direction 6 of 2021 issued by the RTM Nagpur University
2. Norms for PET examination proposed by the Research Vertical
3. Direction 2 of 2021 issued by the RTM Nagpur University



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**Item 24.15 Any other matter with the permission of the chair.**

As there was no other point for the discussion, the meeting was adjourned.

The meeting concluded with thanks to the Chair.

Date: 18<sup>th</sup> March, 2021

(Dr. A.V. Patil)  
Dean (Academic Matters)

**Details of program syllabus**

**revision in last 5 years**



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**DEPARTMENT OF CIVIL ENGINEERING**

NOTICE  
{BoS}

Date:- 30<sup>th</sup> January 2021

**Meeting No 27** of Board of Studies of Civil Engineering department is scheduled on **Thursday 04<sup>th</sup> February 2021** at 02:45 p.m. in CE-206 Conference Hall.

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

**Agenda Points**

**Item No. 27.01**

Welcome of new members

**Item No. 27.02**

Installation of member Secretary

**Item No. 27.03**

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

**Item No. 27.04**

To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2014 & Autonomous 2018) of the Undergraduate and Post graduate programs conducted under the Board.

**Item No. 27.05**

To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2014 & Autonomous 2018 Schemes of Undergraduate and Post graduate programs conducted under the Board.

**Item No. 27.06**

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

**Item No. 27.07**

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

**Item No. 27.08**

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

**Item No. 27.09**

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

**Item No. 27.10**

To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Even Term 2020-21

**Item No. 27.11**

To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Even Term 2020-21

**Item No. 27.12**

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 of Even Term 2020-21

**Item No. 27.13**

Updation/Preparation of Electronic question Bank upto VI Sem UG courses

To review solutions to all questions of Electronic Question Banks for all courses upto IV SEM (SoE 2018)



Nagar Yuwak Shikshan Sanstha's  
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**DEPARTMENT OF CIVIL ENGINEERING**

**Item No. 27.14**

Updation/Preparation of subject Note Book for UG Courses.

To consolidate the number of subject wise Note Books prepare as per SoE and plan for preparing Note Books for remaining subjects. Also to review the updation already prepared Note Books.

**Item No. 27.15**

To discuss the feedback received from students/teachers/employers/alumni/parents regarding teaching learning process in order to review and design the syllabus

**Item No. 27.16**

Any other matter with the permission of the Chair.

Prof. Ms. Charuta S. Waghmare  
**Member Secretary**  
Board of Studies Civil Engineering

Dr. V.G. Meshram  
**Head & Chairman,**  
Board of Studies Civil Engineering

S.N.	Name	Signature	S.N.	Name	Signature
1	Dr. Udaykumar P. Waghe	----	22	Dr. Prashant Baban Pande	
2	Dr. Anant Manohar Pande		23	Mr. Atul Sambhuji Kurzekar	
3	Dr. Santanu Ramkrishna Khandeshwar		24	Mr. Vivek Dnyandeo Jayale	
4	Dr. Sudhir Vasant Rao Ambekar		25	Mr. Harshal Madhukar Warade	
5	Dr. Abhay Vinayakrao Patil		26	Ms. Pallavi Shaligram Chakole	
6	Dr. Vilas Ganuji Meshram		27	Ms. Snehal Karunkumar Kamble	
7	Dr. Ajay Ramdas Gajbhiye		28	Mr. Sourabh Mahesh Amrodiya	
8	Dr. Rajendra Rupraoji Dighade		29	Mr. Sanket Gajanan Kalamkar	
9	Mr. Sanjay Manohar Waghmare		30	Mr. Sagar Wasudeo Dhengare	
10	Mr. Bhupesh Purshottam Nandurkar		31	Ms. Monali Rewashankar Wagh	
11	Dr. Ms. Madhuri S. Bhagat		32	Mr. Yogesh Prabhakar Kherde	
12	Dr. Sanjay Padmakar Raut		33	Ms. Sneha Gowardhan Hirekhan	
13	Mrs. Vaishali Nilesh Mendhe		34	Mr. Rajesh Madhukar Bhagat	
14	Ms. Charuta Subhash Waghmare		35	Dr. Mrs. Boskey V. Bahoria	
15	Mr. Khalid Shamim Ansari		36	Mr. Anuksh Naresh Asati	
16	Mr. Harshal Ramesh Rao Nikhade		37	Ms. Pallavi Anil Deotale	
17	Mr. Jayant Manohar Raut		38	Prof. Uday Singh Patil	
18	Mr. Dhiraj Giridharilal Agrawal		39	Ms. Shubhashree Ratnakr Chimote	
19	Mr. Pawan Kesharao Hinge		40	Ms. Tejaswini Yogiraj Niwal	
20	Ms. Amruta Arun Yadav		41	Ms. Payal Dipakrao Lunge	
21	Ms. Sangita Shivcharan Meshram		42	Ms. Sarita Suresh Harne	

Name	Signature	Name	Signature	Name	Signature
Dr. D.H. Lataye		Mr. Suneel Voditel	Accepted	Dr. V.S. Landge	Accepted
Er. Satish Raipure	Accepted	Dr. N.S. Raman	Accepted		

# DEPARTMENT OF CIVIL ENGINEERING

## Circular {BoS}

The 27<sup>th</sup> Meeting of Board of Studies of Civil Engineering is scheduled as per following schedule.

**Date** :- Thursday 04<sup>th</sup> February 2021  
**Time** :- 03:00 p.m.  
**Venue** :- CE-206 Conference Hall

The Following staff members attended the meeting.

S.N.	Name	Signature	S.N.	Name	Signature
1	Dr. Udaykumar P. Waghre		22	Dr. Prashant Baban Pande	(AB)
2	Dr. Anant Manohar Pande		23	Mr. Atul Sambhuji Kurzekar	
3	Dr. Santanu Ramkrishna Khandekar	(AB) (AB) - 1.5k	24	Mr. Vivek Dnyandeo Jayale	
4	Dr. Sudhir Vasantrao Ambekar		25	Mr. Harshal Madhukar Warade	(AB)
5	Dr. Abhay Vinayakrao Patil		26	Ms. Pallavi Karunkumar Chakole	
6	Dr. Vilas Ganuji Meshram		27	Ms. Snehal Karunkumar Kamble	
7	Dr. Ajay Ramdas Gajbhiye	(AB)	28	Mr. Sourabh Mahesh Amrodiya	(AB)
8	Dr. Rajendra Rupraoj Dighade	(AB)	29	Mr. Sanket Gajanan Kalamkar	
9	Mr. Sanjay Manohar V/ghmare		30	Mr. Sagar Wasudeo Dhengare	
10	Mr. Bhupesh Purshottam Nandurkar		31	Ms. Monali Rewashankar Wagh	
11	Dr. Ms. Madhuri S. Bhagat		32	Mr. Yogesh Prabhakar Kherde	
12	Dr. Sanjay Padmakar Raut		33	Ms. Sneha Gowarthan Hirekhan	
13	Mrs. Vaishali Nilesh Mendhe		34	Mr. Rakesh Madhukar Bhagat	
14	Ms. Charuta Subhash Waghmare		35	Dr. Mrs. Boskey V. Bahona	
15	Mr. Khalid Shamim Ansari		36	Mr. Anuksh Naresh Asati	
16	Mr. Harshal Rameshraj Nikhade		37	Ms. Pallavi Anil Deotale	
17	Mr. Jayant Manohar Raut		38	Prof. Uday Singh Patil	
18	Mr. Dhiraj Giridharlal Agrawal		39	Ms. Shubhashree Ratnakr Chimote	
19	Mr. Pawan Kesharao Hinge		40	Ms. Tejaswini Yogiraj Niwal	
20	Ms. Amruta Arun Yadav	(AB)	41	Ms. Payal Dipakrao Lunge	
21	Ms. Sangita Shivcharan Meshram		42	Prof. Ms. Santa Suresh Harme	

Name	Signature	Name	Signature	Name	Signature
Dr. D.H. Lataye	(AB) D.H. Lataye	Dr. Suresh Vaidital		Dr. V.S. Landge	
Dr. Satish Raipure		Dr. N.S. Raman			



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**DEPARTMENT OF CIVIL ENGINEERING**

**Minutes of 27<sup>TH</sup> BoS Meeting dated on Thursday 04<sup>th</sup> February 2021**

- 27<sup>th</sup> Meeting of BoS of Civil engineering was held on Thursday, 04<sup>th</sup> February 2021. It was chaired by Dr. V.G.Meshram, Chairman BoS. Following members were present.

Name	Name	Name
Er. Satish Raipure	Ms. Charuta Subhash Waghmare	Ms. Monali Rewashankar Wagh
Mr. Suneel Voditel	Mr. Khalid Shamim Ansari	Mr. Yogesh Prabhakar Kherde
Dr. N.S. Raman	Mr. Harshal Ramesh Rao Nikhade	Ms. Sneha Gowardhan Hirekhan
Dr. V.S. Landge	Mr. Jayant Manohar Raut	Mr. Rajesh Madhukar Bhagat
Dr. Udaykumar P. Waghe	Mr. Dhiraj Giridharilal Agrawal	Dr. Mrs. Boskey V. Bahoria
Dr. Sudhir Vasant Rao Ambekar	Mr. Pawan Keshao Rao Hinge	Mr. Anukhsh Naresh Asati
Dr. Abhay Vinayakrao Patil	Ms. Sangita Shivcharan Meshram	Ms. Pallavi Anil Deotale
Dr. Vilas Ganuji Meshram	Mr. Atul Sambhuji Kurzekar	Prof. Uday Singh Patil
Mr. Sanjay Manohar Waghmare	Mr. Vivek Dnyandeo Jayale	Ms. Shubhashree Ratnakr Chimote
Mr. Bhupesh Purshottam Nandurkar	Ms. Pallavi Shaligram Chakole	Ms. Tejaswini Yogiraj Niwal
Dr. Ms. Madhuri S. Bhagat	Ms. Snehal Karunkumar Kamble	Ms. Payal Dipakrao Lunge
Dr. Sanjay Padmakar Raut	Mr. Sanket Gajanan Kalamkar	Ms. Sarita Suresh Harne
Mrs. Vaishali Nilesh Mendhe	Mr. Sagar Wasudeo Dhengare	

- **Following members had been permitted leave of absence**
  - Dr. Anant Manohar Pande
  - Dr. Santanu Ramkrishna Khandeshwar
  - Dr. Ajay Ramdas Gajbhiye
  - Dr. Rajendra Rupraoji Dighade
  - Ms. Amruta Arun Yadav
  - Dr. Prashant Baban Pande
  - Mr. Harshal Madhukar Warade
  - Mr. Sourabh Mahesh Amrodiya



## DEPARTMENT OF CIVIL ENGINEERING

### Minutes of Meetings 27<sup>th</sup> BoS Meeting

#### Agenda No. 27.01

##### Welcome of new members

Dr.V.G.Meshram accepted the charge as BoS Chairman from the session 2020-21. Department welcomed new Chairman.

Dr.V.G.Meshram welcomed all BoS experts, viz., Dr. N. S. Raman, Director & HoD, EIA Division, NEERI, Nagpur, Er. Suneel Voditel, Director, Skyline Expert from Industry, Er. Satish Raipure, Alumini & Director, Raipure & Associates, Dr. V.S. Landge Professor, Department of Civil Engineering, VNIT, Nagpur and departmental BoS members.

New BoS members, Dr. Mrs. Boskey V. Bahoria, Mr. Anukhsh Naresh Asati, Mr. Uday Singh Patil, Ms. Shubhashree Ratnakar Chimote, Ms. Tejaswini Yogiraj Niwal, Ms. Payal Lunge were welcomed by all BoS members.

#### Agenda No. 27.03

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

The minutes of previous meeting no. 26 held on **Thursday, 4<sup>th</sup> June 2020** were already circulated to all members. Since there was no comment from any member, the chairman requested to accept the minutes. Prof.B.P.Nandurkar proposed the minutes to be accepted. Dr.M.S.Bhagat seconded it. The minutes were then accepted.

#### Agenda No. 27.04

##### To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2014 & Autonomous 2018) of the Undergraduate and Post graduate programs conducted under the Board.

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

No corrections and amendments were proposed by any members for SoE Autonomous 2014 of the Undergraduate and SoE 2019 of Post graduate programs.

#### Agenda No. 27.05

##### To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2014 & Autonomous 2018 Schemes of Undergraduate and Post graduate programs conducted under the Board.

All members were asked if any further correction or amendment was required to be done in the syllabus of various courses in Autonomous 2014 & Autonomous 2018 Schemes of Undergraduate and Post graduate programs of Undergraduate and Post graduate programs.

Some corrections and amendments were proposed by any members for SoE Autonomous 2014 and 2018 of the Undergraduate and SoE 2019 of Post graduate programs.

III Semester	
Course Code & Course Name	Suggestions about Course Content by Experts
CV2201 - Strength of Materials	Stress due to variation of temperature added in Unit-I
CV2203 - Geotechnical Engineering	Shear test under different drainage conditions added in Unit-VI
CV2205 - Fluid Mechanics	Momentum correction factor added in Unit V
CV2207 - Water Supply Engineering	Hydraulic design of rising mains added in Unit-II

V SEMESTER	
Course Code & Course Name	Suggestions about Course Content by Experts
CV2301 - Reinforced Concrete Structures	Introduction to under-reamed pile foundation and combined footing added in Unit V
CV2302 - Advanced Structural Analysis	Analysis of one leg inclined frame with sway added in Unit V
CV2311 - PE-I : Advance Surveying	Displacement due to ground relief added in Unit VI
CV2317 - PE-I : Matrix Analysis of Structures	solution to problem without sinking of support with maximum three degrees of freedom added in Unit II





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### DEPARTMENT OF CIVIL ENGINEERING

CV2319 – PE-I : Advanced Concrete Technology	Admixtures & construction chemicals, Use of Fly Ash, Silica Fumes, Metakaolin & GGBS in concrete added in Unit V
CV2327– PE-I : Geographical Information Systems	Application of GIS to various natural resources mapping and monitoring and other civil engineering related problems added in Unit VI
CV2331 – OE-I : Building Services Engineering	Building protection against lightening added in Unit III
CV2332 – OE-I : Construction Techniques	Pre - Engineered Building and its Application & Advantages added in Unit V
CV2333 – OE-I : Introduction To Environmental Management	Cleaner Technology of production added in Unit IV
CV2341 - OE-II : Elements of Earthquake Engineering	study of damages caused due to past earthquake and remedial measures added in Unit VI
CV2343 - OE-II : Air Pollution and Solid Waste Management	leachate management added in Unit VI

Er.Satish Raipure,BoS expert suggested corrections in the course CV2370 – PE-II : Structural Industrial Practices and suggested to shift this course in VIIth semester. PE-I Computer applications in Civil Engineering will be offered as professional elective in V Semester.

#### For PG Environmental Engineering

I Semester	
CV3963 - Water Supply and Waste Water Collection System	flow in partially filled sewers added in unit V
CV3966 - Municipal Solid Waste Management	Handling of Bio-Medical Waste added in unit VI

#### For PG Structural Engineering

I Semester	
CV3906 - Design of Substructures and Foundations	Introduction to design of well foundation added in Unit III
CV3907 - Earthquake and Wind Effects on Structures	Structural Health Monitoring added in Unit VI

The corrections have been incorporated and will be sent to Academic office for further submission.

#### Agenda No. 27.06

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

All members were asked to 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 in the books were proposed by any members.

#### Agenda No. 27.07

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

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. 27.08

**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.



## DEPARTMENT OF CIVIL ENGINEERING

### **Agenda No. 27.09**

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

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. The list is as follows:

S.N.	Semester	Course Code	Course Name
1	IV	CV2251	Concrete technology
2	VI	CV 2355	Foundation Engineering
3	VIII	CV 1450	Watershed Management

### **Agenda No. 27.10**

**To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Even Term 2020-21.**

It was decided to finalized panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs in End Semester Examination of **Even Term 2020-2021** after notification received from CoE office.

### **Agenda No. 27.11**

**To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Even Term 2020-21.**

It was decided to finalized panel of paper setters, Moderators and Valuers for the various theory courses at **Postgraduate** programs in End Semester Examination of **Even Term 2020-2021** after notification received from CoE office.

### **Agenda No. 27.12**

**To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination Even Term 2020-21.**

It was decided to finalized panel of of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels of **Even Term 2020-2021** after notification received from CoE office.

### **Agenda No. 27.13**

**Updation/Preparation of Electronic question Bank upto VI Sem UG courses.**

**To review solutions to all questions of Electronic Question Banks for all courses upto IV SEM (SoE 2018)**

Validation of Electronic question bank for VI semester was done and concerned faculties were asked to prepare solutions to all questions. Concerned faculty of IV sem have been asked to start preparation of Electronic question Bank.

### **Agenda No. 27.14**

**Updation/Preparation of subject Note Book for UG Courses.**

**To consolidate the number of subject wise Note Books prepare as per SoE and plan for preparing Note Books for remaining subjects. Also to review the updation already prepared Note Book.**

18 subject wise Note Books has been prepared and validation of notebooks will be done in the month of March, 2021. Faculties have been asked to prepare Notebooks for courses of Even term.

### **Agenda No. 27.15**

**To discuss the feedback received from students/teachers/employers/alumni/parents regarding teaching learning process in order to review and design the syllabus.**

The SoE & curriculum of 2018-19 has been discussed with stakeholders of the department including students/teachers/employers/alumni/parents, and necessary inputs in the form of feedback has been collected from them.

### **Agenda No. 27.16**

**Any other matter with the permission of the Chair.**



Nagar Yuwak Shikshan Sanstha's  
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**DEPARTMENT OF CIVIL ENGINEERING**

1. As per directives received from Dean, Academic Matters it has been decided to conduct two certificate courses

1. Certificate course in Introduction to Total Station. (Tentative Title)

2. Certificate course in Introduction to STADDPRO. (Tentative Title)

The courses will be planned to execute in the month of April-May 2021

2. Three Honor and one Minor course have been proposed by the department.

S.N.	Honor Course	Minor Course
1	Construction Technology	Introduction to Civil Engineering
2	Remote Sensing & GIS	
3	Water and Wastewater Technology	

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

Prof. Ms. Charuta S. Waghmare  
**Member Secretary**  
Board of Studies Civil Engineering

Dr. V.G. Meshram  
**Head & Chairman**  
Board of Studies Civil Engineering



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## DEPARTMENT OF CIVIL ENGINEERING

NOTICE  
{BoS}

Date:- 27<sup>th</sup> May 2020

**Meeting No 26** of Board of Studies of Civil Engineering department is scheduled on **Thursday 4<sup>th</sup> June 2020 at 01:00 p.m.** through online mode.

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

**Agenda Points**

**Item No. 26.01**

Welcome of new members

**Item No. 26.02**

Installation of member Secretary

**Item No. 26.03**

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

**Item No. 26.04**

To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2014 & Autonomous 2018) of the Undergraduate and Post graduate programs conducted under the Board.

**Item No. 26.05**

To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2014 & Autonomous 2018 Schemes of Undergraduate and Post graduate programs conducted under the Board.

**Item No. 26.06**

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

**Item No. 26.07**

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

**Item No. 26.08**

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

**Item No. 26.09**

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

**Item No. 26.10**

To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Odd Term 2020-21.

**Item No. 26.11**

To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Odd Term 2020-21.

**Item No. 26.12**

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 2020-21.

**Item No. 26.13**

Preparation of Electronic question Bank for VII and VIII Sem UG courses.

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



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## DEPARTMENT OF CIVIL ENGINEERING

### Item No. 26.14

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

### Item No. 26.15

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

### Item No. 26.16

To discuss the feedback received from students/teachers/employers/alumni/parents regarding teaching learning process in order to review and design the syllabus.

### Item No. 26.17

Any other matter with the permission of the Chair.( Industry aligned courses)

Prof. Ms. Charuta S. Waghmare  
**Member Secretary**  
Board of Studies Civil Engineering

Dr. S.R. Khandeshwar  
**Head & Chairman,**  
Board of Studies Civil Engineering

S.N.	Name	Signature	S.N.	Name	Signature
1	Dr. Udaykumar P. Waghe		18	Mr. Pawan Kesharao Hinge	
2	Dr. Anant Manohar Pande		19	Ms. Amruta Arun Yadav	
3	Dr. Santanu Ramkrishna Khandeshwar		20	Ms. Sangita Shivcharan Meshram	
4	Dr. Sudhir Vasant Ambekar		21	Mr. Prashant Baban Pande	
5	Dr. Abhay Vinayakrao Patil		22	Mr. Atul Sambhuji Kurzekar	
6	Dr. Vilas Ganuji Meshram		23	Mr. Vivek Dnyandeo Jayale	
7	Dr. Ajay Ramdas Gajbhiye		24	Mr. Harshal Madhukar Warade	
8	Dr. Rajendra Rupraoji Dighade		25	Ms. Pallavi Shalikram Chakole	
9	Mr. Sanjay Manohar Waghmare		26	Ms. Snehal Karunkumar Kamble	
10	Mr. Bhupesh Purshottam Nandurkar		27	Mr. Sourabh Mahesh Amrodiya	
11	Dr. Sanjay Padmakar Raut		28	Mr. Sanket Gajanan Kalamkar	
12	Ms. Vaishali Nilesh Mendhe		29	Mr. Sagar Wasudeo Dhengare	
13	Ms. Charuta Subhash Waghmare		30	Ms. Monali Rewashankar Wagh	
14	Mr. Khalid Shamim Ansari		31	Mr. Yogesh Prabhakar Kherde	
15	Mr. Harshal Ramesh Rao Nikhade		32	Ms. Sneha Gowardhan Hirekhan	
16	Mr. Jayant Manohar Raut		33	Mr. Rajesh Madhukar Bhagat	
17	Mr. Dhiraj Giridharilal Agrawal				

Name	Signature	Name	Signature	Name	Signature
Dr. D.H. Lataye	Present Online	Mr. Suneel Voditel	Present Online	Mr. V.S. Landge	Present Online
Er. Satish Raipure	Present Online	Dr. N.S. Raman	Present Online		



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## DEPARTMENT OF CIVIL ENGINEERING

### Minutes of 26<sup>TH</sup> BoS Meeting dated on Thursday 04<sup>th</sup> June 2020

- 26<sup>th</sup> Meeting of BoS of Civil engineering was held on Thursday, 04<sup>th</sup> June 2020. It was chaired by Dr. S.R. Khandeshwar, Chairman BoS. Following members were present.

Name	Name	Name
Dr. N.S. Raman	Dr. Rajendra Rupraoji Dighade	Mr. Prashant Baban Pande
Dr. D.H. Lataye	Mr. Sanjay Manohar Waghmare	Mr. Atul Sambhuji Kurzekar
Er. Satish Raipure	Mr. Bhupesh Purshottam Nandurkar	Mr. Vivek Dnyandeo Jayale
Mr. Suneel Voditel	Dr. Sanjay Padmakar Raut	Mr. Harshal Madhukar Warade
Dr. V.S. Landge	Ms. Vaishali Nilesh Mendhe	Mr. Sourabh Mahesh Amrodiya
Dr. Udaykumar P. Waghe	Ms. Charuta Subhash Waghmare	Mr. Sanket Gajanan Kalamkar
Dr. Anant Manohar Pande	Mr. Khalid Shamim Ansari	Mr. Sagar Wasudeo Dhengare
Dr. Santanu Ramkrishna Khandeshwar	Mr. Harshal Ramesh Rao Nikhade	Ms. Monali Rewashankar Wagh
Dr. Sudhir Vasantrao Ambekar	Mr. Jayant Manohar Raut	Mr. Yogesh Prabhakar Kherde
Dr. Abhay Vinayakrao Patil	Mr. Dhiraj Giridharilal Agrawal	Ms. Sneha Gowardhan Hirekhan
Dr. Vilas Ganuji Meshram	Mr. Pawan Keshao Rao Hinge	Mr. Rajesh Madhukar Bhagat
Dr. Ajay Ramdas Gajbhiye	Ms. Amruta Arun Yadav	

- **Following members had been permitted leave of absence**

1. Ms. Sangita Shivcharan Meshram
2. Ms. Pallavi Shalikram Chakole



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## DEPARTMENT OF CIVIL ENGINEERING

### Minutes of Meetings

#### 26th BoS Meeting

#### Agenda No. 26.01 Welcome of new members

The Chairman, Dr. S.R. Khandeshwar, welcomed all BoS experts, viz., Dr. N. S. Raman, Director & HoD, EIA Division, NEERI, Nagpur, Dr. D.H. Lataye, Professor, Department of Civil Engineering, VNIT, Nagpur, Er. Suneel Voditel, Director, Skyline Expert from Industry, Er. Satish Raipure, Alumini & Director, Raipure & Associates, Dr. V.S.Landge Professor, Department of Civil Engineering, VNIT, Nagpur and BoS members through on-line mode

#### Agenda No. 26.03

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

The minutes of previous meeting no. 25 held on **Saturday, 18<sup>th</sup> January 2020** were already circulated to all members. Since there was no comment from any member, the chairman requested to accept the minutes. Dr. A.V.Patil proposed the minutes to be accepted. Dr.S.P.Raut seconded it. The minutes were then accepted.

#### Agenda No. 26.04

#### To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2014 & Autonomous 2018) of the Undergraduate and Post graduate programs conducted under the Board.

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

No corrections and amendments were proposed by any members for SoE Autonomous 2014 of the Undergraduate and SoE 2019 of Post graduate programs.

#### Agenda No. 26.05

#### To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2014 & Autonomous 2018 Schemes of Undergraduate and Post graduate programs conducted under the Board.

All members were asked if any further correction or amendment was required to be done in the syllabus of various courses in Autonomous 2014 & Autonomous 2018 Schemes of Undergraduate and Post graduate programs of Undergraduate and Post graduate programs.

Some corrections and amendments were proposed by members for SoE Autonomous 2014 and 2018 of the Undergraduate.

IV Semester	
Course Code & Course Name	Suggestions about Course Content by Experts
CV2251 – Concrete Technology	Introduction to related Indian standard of cement and aggregates added in Unit-I
CV2253 – Surveying	Distance and elevation Calculation by Stadia method added in unit VI
CV2255 – Structural Analysis	Analysis of Two and Three Hinged parabolic arches added in unit V
CV2257 – Transportation Engineering	Traffic Engineering: included in Unit I

VI Semester	
CV2351 - Steel Structures	Introduction to pre Engineered Building (PEB) added in Unit VI
CV2353 – Hydraulic Engineering	Types non-conventional weirs added in Unit IV
CV2355 – Foundation Engineering	methods of improving stability of slopes added in unit V
CV2361 - PE-I : Building Services	Behaviour of sound in an enclosed space added in unit IV
CV2362 - PE-II : New Engineering Materials	use of IS: 11384 added in Unit VI
CV2366 - PE-II : Introduction To Remote Sensing	Remote Sensing Data Formats added in Unit III

#### II Semester MTECH ENVIRONMENTAL ENGINEERING

For PG Environmental Engineering, it has been proposed that Hazardous Waste Management and Energy Conversion and Environment as Professional Elective for II semester for Even 20-21.



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## DEPARTMENT OF CIVIL ENGINEERING

II Semester STRUCTURAL ENGINEERING	
CV3921 – PE-I : Prestressed Concrete	Choice of cable profile added in unit IV
CV3922 – PE-I Smart Structures and Applications	modeling of smart materials added in Unit I
CV3923 – PE-II : RC Tall Buildings	Beam – column jointed for ductile behaviors added in unit V
CV3926 – PE-III : Plastic Analysis & Design of Steel Structure	Minimum weight design added in Unit VI
CV3927 – PE-III : Seismic Analysis and Design of Structures	Basics of Steel Design added in unit V

### Agenda No. 26.06

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

All members were asked to 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 in the books were proposed by any members.

### Agenda No. 26.07

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

### Agenda No. 26.08

**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. 26 .09

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

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. The list is as follows:

S.N.	Semester	Course Code	Course Name	NPTEL course Name	INSTRUCTOR NAME	Conducting Institute
1	III	CV2201	Strength of Materials	Strength of Materials	Prof. S.K. Bhattacharyya	IIT Kharagpur
2	V	CV2301	Reinforced Concrete Structures	Design of Reinforced Concrete Structures	Prof. N. Dhang	IIT Kharagpur
3	VII	CV1422	Transportation Engineering-II	Transportation Engineering-II	Prof. Rajat Rastogi	IIT Roorkee

### Agenda No. 26.10

**To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Odd Term 2020-2021.**

It was decided to finalized panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs in End Semester Examination of **Odd Term 2020-2021** in the month of August 2020.

### Agenda No. 26.11

**To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Odd Term 2020-2021.**

It was decided to finalized panel of paper setters, Moderators and Valuers for the various theory courses at





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## DEPARTMENT OF CIVIL ENGINEERING

Postgraduate programs in End Semester Examination of **Odd Term 2020-2021** in the month of August 2020

### Agenda No. 26.12

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 2020-2021

It was decided to finalized panel of of internal and external examiners for the various laboratory and other non- theory courses at UG and PG levels of **Odd Term 2020-2021** in the month of August 2020.

### Agenda No. 26.13

Preparation of Electronic question Bank for VII and VIII Sem UG courses.

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

Validation of Electronic question bank for V semester is done and concerned faculties were asked to prepare solutions to all questions. Concerned faculty have been asked to start preparation of Electronic question Bank for VII and VIII Sem UG courses.

### Agenda No. 26.14

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.

### Item No. 26.15

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

It has been decided to offer Construction Technology as a Honor Course and Remote Sensing and GIS in consultation with Ceinsys as Minor Course. The syllabus of both the courses has been validated with the BoS Experts and sent to Dean(Academic Matters) for further process.

### Item No. 26.16

To discuss the feedback received from students/teachers/employers/alumni/parents regarding teaching learning process in order to review and design the syllabus.

The SoE & curriculum of 2014-15 & 2018-19 has been discussed with stakeholders of the department including students/teachers/employers/alumni/parents , and necessary inputs in the form of feedback has been collected from them.

### Item No. 26.17

Any other matter with the permission of the Chair.

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

Prof. Ms. C.S. Waghmare  
Member Secretary  
Board of Studies Civil Engineering

Dr. S.R. Khandeshwar  
Head & Chairman.  
Board of Studies Civil Engineering



## DEPARTMENT OF CIVIL ENGINEERING

### NOTICE BOS

Date:- 26<sup>th</sup> July 2021

Meeting No 28 of Board of Studies of Civil Engineering department is scheduled on **Saturday 31<sup>st</sup> July 2021** from 11:00 a.m. through online mode.

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

#### Agenda Points

**Item No. 28.01**

Welcome of new members

**Item No. 28.02**

Installation of member Secretary

**Item No. 28.03**

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

**Item No. 28.04**

To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2014 & Autonomous 2018) of the Undergraduate and Post graduate programs conducted under the Board.

**Item No. 28.05**

To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2014 & Autonomous 2018 Schemes of Undergraduate and Post graduate programs conducted under the Board.

**Item No. 28.06**

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

**Item No. 28.07**

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

**Item No. 28.08**

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

**Item No. 28.09**

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

**Item No. 28.10**

To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Odd Term 2021-22.



**DEPARTMENT OF CIVIL ENGINEERING**

**Item No. 28.11**

To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Odd Term 2021-22.

**Item No. 28.12**

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 2021-22

**Item No. 28.13**

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

**Item No. 28.14**

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

**Item No. 28.15**

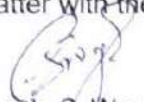
To discuss and propose scheme for Minor an Honor course and its syllabus. Discussed and proposed Certificate courses and value added courses in 2021-22.

**Item No. 28.16**

To discuss the feedback received from students/teachers/employers/alumni/parents regarding teaching learning process in order to review and design the syllabus

**Item No. 28.17**

Any other matter with the permission of the Chair.

  
Prof. Ms. Charuta S. Waghmare  
**Member Secretary**  
Board of Studies Civil Engineering

  
Dr. S.P. Raut  
**Head & Chairman,**  
Board of Studies Civil Engineering

S.N.	Name	S.N.	Name
1	Dr. Udaykumar P. Waghe	18	Prof. Pawan Kesharao Hinge
2	Dr. Santanu Ramkrishna Khandeshwar	19	Prof. Ms. Amruta Arun Yadav (Adekar)
3	Dr. Sudhir Vasantrao Ambekar	20	Prof. Ms. Sangita Shivcharan Meshram (Sukhadeve)
4	Dr. Abhay Vinayakrao Patil	21	Dr. Prashant Baban Pande
5	Dr. Vilas Ganuji Meshram	22	Prof. Atul Sambhuji Kurzekar
6	Dr. Ajay Ramdas Gajbhiye	23	Prof. Vivek Dnyandeo Jayale
7	Dr. Rajendra Rupraoji Dighade	24	Dr. Harshal Madhukar Warade
8	Prof. Sanjay Manohar Waghmare	25	Prof. Ms. Pallavi Shaligram Chakole (Bankar)
9	Dr. Bhupesh Purshottam Nandurkar	26	Prof. Ms. Snehal Karunkumar Kamble (Patankar)
10	Dr. Ms. Madhuri Shankarrao Bhagat	27	Prof. Sourabh Mahesh Amrodiya
11	Dr. Sanjay Padmakar Raut	28	Prof. Sanket Gajanan Kalamkar
12	Prof. Mrs. Vaishali Nilesh Mendhe (Bhadke)	29	Prof. Sagar Wasudeo Dhengare
13	Prof. Ms. Charuta Subhash Waghmare	30	Prof. Ms. Monali Rewashankar Wagh (Nikhade)
14	Prof. Khalid Shamim Ansari	31	Prof. Yogesh Prabhakar Kherde
15	Prof. Harshal Ramesh Rao Nikhade	32	Prof. Ms. Sneha Gowardhan Hirekhan (Wankhede)
16	Dr. Jayant Manohar Raut	33	Prof. Rajesh Madhukar Bhagat
17	Prof. Dhiraj Giridharilal Agrawal	34	Dr. Mrs. Boskey Vishal Bahoria

S.N.	Name	Signature	S.N.	Name	Signature
1	Dr. A.D. Ghare	Present Online	4	Prof. S.N. Harinkhede	Present Online
2	Er. Jagdish Lanjewar	Present Online	5	Dr. M.D. Goel	AB
3	Dr. M. Madurwar	Present Online			



**DEPARTMENT OF CIVIL ENGINEERING**

**Minutes of 28<sup>TH</sup> BoS Meeting dated on Saturday 31<sup>ST</sup> July 2021**

- 28<sup>th</sup> Meeting of BoS of Civil Engineering was held on Saturday 31<sup>ST</sup> July 2021.. 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	Dr. Jayant Manohar Raut
2	Dr. M.Madurwar	21	Prof. Dhiraj Giridharilal Agrawal
3	Er.Jagdish Lanjewar	22	Prof. Pawan Kesharao Hinge
4	Prof.S.N.Harinkhede	23	Prof. Ms. Amruta Arun Yadav (Adekar)
5	Dr. Udaykumar P. Waghe	24	Prof. Ms. Sangita Shivcharan Meshram (Sukhadeve)
6	Dr. Santanu Ramkrishna Khandeshwar	25	Dr. Prashant Baban Pande
7	Dr. Sudhir Vasantao Ambekar	26	Prof. Atul Sambhuji Kurzekar
8	Dr. Abhay Vinayakrao Patil	27	Prof. Vivek Dnyandeo Jayale
9	Dr. Vilas Ganuji Meshram	28	Dr. Harshal Madhukar Warade
10	Dr. Ajay Ramdas Gaibhiye	29	Prof. Ms. Pallavi Shalikram Chakole (Bankar)
11	Dr. Rajendra Rupraoji Dighade	30	Prof. Ms. Snehal Karunkumar Kamble (Patankar)
12	Prof. Sanjay Manohar Waghmare	31	Prof. Sourabh Mahesh Amrodiya
13	Dr. Bhupesh Purshottam Nandurkar	32	Prof. Sanket Gajanan Kalamkar
14	Dr. Ms. Madhuri Shankarrao Bhagat	33	Prof. Sagar Wasudeo Dhengare
15	Dr. Sanjay Padmakar Raut	34	Prof. Ms. Monali Rewashankar Wagh (Nikhade)
16	Prof. Mrs. Vaishali Nilesh Mendhe (Bhadke)	35	Prof. Yogesh Prabhakar Kherde
17	Prof. Ms. Charuta Subhash Waghmare	36	Prof. Ms. Sneha Gowardhan Hirekhan (Wankhede)
18	Prof. Khalid Shamim Ansari	37	Prof. Rajesh Madhukar Bhagat
19	Prof. Harshal Ramesh Rao Nikhade	38	Dr. Mrs. Boskey Vishal Bahoria

- **Following members has been permitted leave of absence**

1. Dr. M.D. Goel
2. Dr. Anant Manohar Pande



## DEPARTMENT OF CIVIL ENGINEERING

### Minutes of Meetings 28<sup>th</sup> BoS Meeting

#### Agenda No. 28.01

##### Welcome of new members

Dr. S.P. Raut accepted the charge as BoS Chairman from the session 2021-22. Department welcomed new Chairman.

Dr. S.P. Raut welcomed all BoS experts, viz., Dr.A.D.Ghare Professor, Department of Civil Engineering, VNIT, Nagpur, Dr. M.Madurwar Assistant Professor, Department of Civil Engineering, VNIT, Nagpur, Er.Jagdish Lanjewar, Director, Sun Enviro Technologies Pvt.Ltd., Nagpur, Prof.S.N.Harinkhede, Alumni and Assistant Professor, SBJITMR, Nagpur and departmental BoS members.

#### Agenda No. 28.03

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

The minutes of previous meeting no. 27<sup>th</sup> held on Thursday, 4<sup>th</sup> February 2021 were already circulated to all members. The ATR of previous meeting have been discussed with BoS members. **(Annexure 1)**.

After confirmation, Prof.B.P.Nandurkar proposed the minutes to be accepted. Prof. Mrs. V.N. Mendhe seconded it. The minutes were then accepted.

#### Agenda No. 28.04

##### To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2014 & Autonomous 2018) of the Undergraduate and Post graduate programs conducted under the Board.

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

No corrections and amendments were proposed by any members for SoE Autonomous 2014 of the Undergraduate and SoE 2019 of Post graduate programs.

#### Agenda No. 28.05

##### To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2014 & Autonomous 2018 Schemes of Undergraduate and Post graduate programs conducted under the Board.

All members were asked if any further correction or amendment was required to be done in the syllabus of various courses in Autonomous 2014 & Autonomous 2018 Schemes of Undergraduate and Post graduate programs.

The last batch of SoE 2014-15 has been graduated in the year 2020-21. Therefore no corrections were proposed by the faculty in syllabi of courses in Autonomous 2014. For the syllabi of courses in Autonomous 2018 Scheme, few corrections has been suggested.

UG	Course Code	Course Name	Corrections suggested by Faculty / BoS Expert
VII Semester	CV 2429	PE-IV Watershed Management	Dr. A. D. Ghare suggested to add Revised Universal Soil Loss Equation in Unit-III
	New ( Suggested by Dr.R.R.Dhigade)	PE- IV: Advanced Fluid Mechanics and Hydraulic Machines	Approved.
All Semester (III-VII)	Approved Modified Course Outcome with modifications in the sentence framing.		
PG (Env.Engg.) II Semester	CV3979 (Suggested by Dr. S.R. Khandeshwar)	PE-I : Hazardous Waste Management	Solidification / stabilization and innovation techniques from Unit-III will be removed and should be added in Unit-IV.

The corrections to be sent to Academic office for further submission.



## DEPARTMENT OF CIVIL ENGINEERING

### Agenda No. 28.07

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

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. 28.08

**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. 28.09

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

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. The list is as follows :

S.N.	Semester	Course Code	Course Name
1	III	CV2207	Water Supply Engineering

### Agenda No. 28.10

**To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Odd Term 2021-22.**

It was decided to finalized panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs in End Semester Examination of Odd Term 2021-22 in the last week of August

### Agenda No. 28.11

**To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Odd Term 2021-22.**

It was decided to finalized panel of paper setters, Moderators and Valuers for the various theory courses at Postgraduate programs in End Semester Examination of Odd Term 2021-22 in the last week of August

### Agenda No. 28.12

**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 2021-22.**

It was decided to finalized panel of of internal and external examiners for the various laboratory and other non- theory courses at UG and PG levels of Odd Term 2021-22 in the last week of August



## DEPARTMENT OF CIVIL ENGINEERING

### Agenda No. 28.13

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

The process will start after the notification from DAM office for the preparation of EQB of 2018-19 scheme.

### Agenda No. 28.14

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

From the session Odd Term 2021-22, new guidelines regarding changes in the format of Mid Semester and End Semester Examination will be issued from Dean Academic Matters and accordingly department will work on it. BoS Experts approved it.

### Agenda No. 28.15

**To discuss and propose scheme for Minor and Honor course and its syllabus. Discussed and proposed Certificate courses and value added courses in 2021-22.**

1. Department of Civil Engineering has been offering 3 Honor Course and 1 Minor course (of 18 credits each) from the session 2021-22 from III year. Honor Courses, viz., Construction Technology (through NPTEL/SWAYAM, SoE and syllabus has been prepared from the subjects offered in SWAYAM), Remote Sensing & GIS (Industry aligned) and Environmental Engineering (Department oriented) and Minor in Civil Engineering has been proposed and approved by the experts on 9th Curriculum Development Program dated Saturday 1st May 2021.

As per the guidelines received from DAM if the courses through NPTEL/SWAYAM are not offered/run by portal, the BoS can proposed another course in line with the offered courses of 8,12 or14 weeks. The courses currently offered by NPTEL/SWAYAM for Construction Technology are viz, Hydration, Porosity & Strength of Cementitious Materials and Project Planning & Control are of 8 weeks of 2 Credits each. It is proposed by the BoS that students have to opt for other additional courses so that the students can complete their required 18 credits in stipulated time.

The suggestions/proposal will be sent to DAM for approval.

2. Value added Course: 1 six day Value added Course /pre-placement certification course on Building Information Modeling (BIM) was conducted for final year students from 28th July -2nd August 2021. Total 102 students registered for the courses. It was conducted in consultation with IWORKSTATION Consultant, Nagpur.
3. One certification course on Introduction to STADDPRO will be commenced from first week of August 2021.

### Agenda No 28.16

**To discuss the feedback received from students/teachers/employers/alumni/parents regarding teaching learning process in order to review and design the syllabus**

The SoE & curriculum of 2018-19 has been discussed with stakeholders of the department including students/teachers/employers/alumni/parents, and necessary inputs in the form of feedback has been collected from them.

### Agenda No 28.17

**Any other matter with the permission of the Chair.**

Dr. M.V. Madurwar, BoS Subject Expert, suggested Introduction to Software Project Management / PRIMEVERA / MS-PROJECT as certificate course.

Er. Jagdish Lanjewar, BoS Industry Expert, suggested to introduce topics such as water recycle systems, its processes, designs, equipment's and instruments study, waste to energy systems, resource recovery from industrial processes.



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## DEPARTMENT OF CIVIL ENGINEERING

Detailing of the said topics will be carried out and accordingly it will be implemented in the syllabus in consultation with industry personnel.

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  
**Member Secretary**  
Board of Studies Civil Engineering

Dr. S.P. Raut  
**Head & Chairman,**  
Board of Studies Civil Engineering





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**Department of Mechanical Engineering**

08/06/2020

**Minutes of BOS Meeting**

The **twenty-fifth meeting** of the Board of Studies in **Mechanical Engineering** was held on **Saturday 6<sup>th</sup> June 2020** through video conferencing using WebEx Platform at 10AM.

Following are the minutes of the meeting:

**Item No. 25.01**

**Welcome of new members**

BoS Chairman Welcome all the external and internal members.

**Item No. 25.02**

**Installation of member Secretary (Comment: If there is a change from previous meeting)**

No

**Item No. 25.03**

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

Minutes of 24<sup>th</sup> BoS meeting were read by Member secretary and approved by the BoS unanimously.

**Item No. 25.04**

**To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2014 & Autonomous 2018) of the Undergraduate and Post graduate programs conducted under the Board**

No Change in existing SoE.

**Item No. 25.05**

**To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2014 & Autonomous 2018 Schemes of Undergraduate and Post graduate programs conducted under the Board.**

Minor changes in the syllabus of following subject are accepted:

1. **ME-2201 Material Science & Metallurgy**

**Item No. 25.06**

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

No change.



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## Department of Mechanical Engineering

### Item No. 25.07

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

No Change.

### Item No. 25.08

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

No Change.

### Item No. 25.09

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

Following MOOC'S courses are suggest by BoS mechanical for students from the session 202-21.

Course Name	Institute	Duration
Mathematical Modeling Of Manufacturing Processes	IITG	12 Weeks
Rapid Manufacturing	IITK	12 Weeks
Heat Exchangers: Fundamentals and Design Analysis	IIT KGP	12 Weeks
Fundamentals of Surface Engineering:	IITR	12 Weeks
Work System Design	IITR	12 Weeks



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## Department of Mechanical Engineering

### Item No. 25.10

**To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of ODD Term 2020-21**

Prepared and circulated among the BoS member for approval. Panel is approved with minor changes.

### Item No. 25.11

**To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of ODD Term 2020-21**

Prepared and circulated among the BoS member for approval. Panel is approved with minor changes.

### Item No. 25.12

**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 2020-21.**

Prepared and circulated among the BoS member for approval. Panel is approved with minor changes.

### Item No. 25.13

**Preparation of Electronic question Bank for VII and VIII Sem UG courses according to SoE 2018. To review solutions to all questions of Electronic Question Banks for all courses of V SEM**  
Chairman requested Prof. V.M.Korde to review solutions to all questions of Electronic Question Banks for all courses upto V SEM (SoE 2018).

### Item No. 25.14

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

No Suggestions.

### Item No. 25.15

**Any other matter with the permission of the Chair**

As per the directions given by AICTE regarding 20% credit transfers through Swayam or NPTEL Courses. BoS Mechanical has suggested following subjects to run through NPTEL.



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## Department of Mechanical Engineering

S. NO.	NAME OF UG PROGRAM	COURSE NAME AS PER AICTE'S MODEL CURRICULUM	SEMESTER NO.	RELEVANCE (% SYLLABUS COVERED)	ALTERNATE NPTEL / SWAYAM COURSE NAME	INSTRUCTOR NAME	INSTITUTE
1	METALLURGICAL ENGINEERING AND MATERIALSCIENCE	INTRODUCTION TO MATERIALS ENGINEERING	III	75%	BASICS OF MATERIALS ENGINEERING	PROF. RATNA KUMAR ANNABATTULA	IITM
				70%	AN INTRODUCTION TO MATERIALS: NATURE AND PROPERTIES (PART 1: STRUCTURE OF MATERIALS)	DR ASHISH GARG	IITK
2	Mechanical Measurement & Metrology	Mechanical measurement & Metrology	IV	55%	Mechanical Measurement & Metrology	Dr Janakarajan Ramkumar	IITK
3	Heat Transfer	Heat Transfer	V	100%	Heat Transfer	Prof. Sunando DasGupta	IITK
4	Design of Mechanical Drives	Design of Mechanical Drives	VI	55%	Machine Design II	Prof. M.M. Mayuram, Prof. K. Gopinath	IITM

**Dr. S.S. Chaudhari**

Chairman

BoS in Mechanical Engineering

**Dr. S. S. Chaudhari**

Head, Dept. Of Mechanical Engineering,

YCCCE, Nagpur

**Prof. A.P. Edlabadkar**

Member Secretary

BoS in Mechanical Engineering



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## Department of Mechanical Engineering

03/02/2021

### Minutes of BOS Meeting

The **twenty-six meeting** of the Board of Studies in **Mechanical Engineering** was held on **Monday 1<sup>st</sup> feb 20201** through video conferencing using WebEx Platform at 10AM.

Following are the minutes of the meeting:

**Item No. 26.01**

**Welcome of new members**

BoS Chairman Welcome all the external and internal members.

**Item No. 26.02**

**Installation of member Secretary (Comment: If there is a change from previous meeting)**

No

**Item No. 26.03**

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

Minutes of 25th BoS meeting were read by Member secretary and approved by the BoS unanimously.

**Item No. 26.04**

**To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2014 & Autonomous 2018) of the Undergraduate and Post graduate programs conducted under the Board**

No Change in existing SoE.

**Item No. 26.05**

**To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2014 & Autonomous 2018 Schemes of Undergraduate and Post graduate programs conducted under the Board.**

Minor changes in the syllabus of following subject are accepted:

1. **ME-2252 Engineering Thermodynamics**

**New professional elective is introduced and syllabus is accepted:**

1. **Earth Moving Equipment**



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## Department of Mechanical Engineering

### Item No. 26.06

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

No change.

### Item No. 26.07

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

No Change.

### Item No. 26.08

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

No Change.

### Item No. 26.09

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

Following MOOC'S courses are suggest by BoS mechanical for students from the session 202-21.

Course Name	Institute	Duration
Mathematical Modeling Of Manufacturing Processes	IITG	12 Weeks
Rapid Manufacturing	IITK	12 Weeks
Heat Exchangers: Fundamentals and Design Analysis	IIT KGP	12 Weeks



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## Department of Mechanical Engineering

<b>Fundamentals of Surface Engineering:</b>	<b>IITR</b>	<b>12 Weeks</b>
<b>Work System Design</b>	<b>IITR</b>	<b>12 Weeks</b>

### Item No. 26.10

To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Even Term 2020-21

Prepared and circulated among the BoS member for approval. Panel is approved with minor changes.

### Item No. 26.11

To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Even Term 2020-21

Prepared and circulated among the BoS member for approval. Panel is approved with minor changes.

### Item No. 26.12

To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination Even Term 2020-21.

Prepared and circulated among the BoS member for approval. Panel is approved with minor changes.

### Item No. 26.13

Updation/Preparation of Electronic question Bank upto VI Sem UG courses

To review solutions to all questions of Electronic Question Banks for all courses upto IV SEM (SoE 2018)

Chairman requested Prof. V.M.Korde to review solutions to all questions of Electronic Question Banks for all courses upto IV SEM (SoE 2018).

### Item No. 26.14

Updation/Preparation of subject Note Book for UG Courses.

To consolidate the number of subject wise Note Books prepare as per SoE and plan for preparing Note Books for remaining subjects. Also to review the Updation already prepared Note Books Separate committee as per the thrust area is constituted for the validation of Notebook. No Suggestions.



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## Department of Mechanical Engineering

### Item No. 26.15

#### Any other matter with the permission of the Chair

Following 3 courses for the students are suggested and approved by the BoS in academic session 2020-21.

1. Digital manufacturing and machine learning (72 Hrs)
2. Pipe design and simulation (72 Hrs)
3. Entrepreneurship development (72 Hrs)

Dr. S.S. Chaudhari

Chairman

BoS in Mechanical Engineering

Dr. S.S. Chaudhari

Prof. A.P. Edlabadkar

Member Secretary

BoS in Mechanical Engineering

Asst. Prof., Dept. Of Mechanical Engineering  
YCCOE, Nagpur





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## Department of Electrical Engineering

### 26<sup>th</sup> Board of Studies in Electrical Engineering Minutes of the Meeting

Date: 6 June 2020

Meeting of the Board of Studies (BoS) in Electrical Engineering was held on Saturday 6 June 2020 at 10 am in the Department of Electrical Engineering, YCCE, Nagpur. The meeting was attended by the following members of BoS.

S. N.	Name	S. N.	Name
1.	Dr.S.P.Adhau (Chairman,BoS )	19	Ms.J.M.Kumbhare
2.	Prof.Sanjay Dambhare(VC Nominee)	20	Mr.P.S.Shete
3.	Dr.B.S.Umre (Academic)	21	Mr.S.R.Gaigowal
4.	Dr.M.A.Chaudhari (Academic)	22	Mr.P.B.Joshi
5.	Mr.Pramod Chimankar(Industry)	23	Mr.B.S.Sudame
6.	Dr.Altaf Badar(Alumni)	24	Ms.S.L.Tiwari
7.	Dr.R.M.Moharil	25	Mrs.U.V.Waghmare
8.	Dr.S.G.Kadwane	26	Ms.N.T.Sahu
9.	Mr.R.N.Nagpure	27	Mr.R.S.Khonde
10.	Dr.P.M.Meshram	28	Ms.N.P.Wasnik
11.	Dr.S.P.Gawande	29	Ms.T.D.Tembhekar
12.	Dr.S.S.Gokhale	30	Ms.Swati Mohod
13.	Dr.B.Y.Bagde	31	Mr.G.C.Gondhalekar
14.	Dr.A.Y.Fadnis	32	Ms.S.B.Rewatkar(Kewte)
15.	Mr.J.A.Shaikh	33	Mrs.Xma R.Pote
16.	Mr.R.M.Gimonkar	34	Mr.P.S.Patil
17.	Mr.A.P.Munshi	35	V.R.Doifode
18.	Mr.A.S.Lilhare		



## Department of Electrical Engineering

### Agenda for BoS Meeting No. 26

26.01	Welcome of new members <ul style="list-style-type: none"><li>No new members joined in Odd Semester 2020-21</li></ul>
26.02	Confirmation of minutes of previous Meeting and action taken report on decisions /suggestions of the previous meeting. <ul style="list-style-type: none"><li><b>Minutes of 25<sup>th</sup> BoS Meeting were confirmed</b></li></ul>
26.03	To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2014 & Autonomous 2018) of the Undergraduate and Post graduate programs conducted under the Board <ul style="list-style-type: none"><li><b>No Suggestions</b></li></ul>
26.04	To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2014 & Autonomous 2018 Schemes of Undergraduate and Post graduate programs conducted under the Board. Minor changes were discussed for following courses: <ul style="list-style-type: none"><li>a) EL1437: Electric Vehicles</li><li>b) EL2353:Power System Analysis</li></ul> <ul style="list-style-type: none"><li><b>ANNEXURE A</b></li></ul>
26.05	To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate and Postgraduate Programs. <ul style="list-style-type: none"><li><b>No suggestions</b></li></ul>
26.06	To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under-Graduate and Post-Graduate programs. <ul style="list-style-type: none"><li><b>No suggestions</b></li></ul>
26.07	To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board. <ul style="list-style-type: none"><li><b>No suggestions</b></li></ul>
26.08	To discuss and propose the new courses/MOOC received from the faculty for inclusion in the curriculum <ul style="list-style-type: none"><li>EL2201: Analog Electronics</li><li>EL2301: Power Electronics</li></ul> <ul style="list-style-type: none"><li><b>ANNEXURE B</b></li></ul>
26.09	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 2020-201



## Department of Electrical Engineering

	<ul style="list-style-type: none"><li>Panel of Paper setters, moderators and valuers for the various theory courses at Undergraduate programs will be included in the list of YA 11 for End Semester Examination of Odd Term 2020-21</li></ul>
26.10	<p>To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Odd Term 2020-21</p> <ul style="list-style-type: none"><li>Panel of Paper setters, moderators and valuers for the various theory courses at Postgraduate programs will be included in the list of YA 11 for End Semester Examination of Odd Term 2020-21</li></ul>
26.11	<p>To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination Odd Term 2020-21</p> <ul style="list-style-type: none"><li>Panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels have been included in YA12 Odd Term 2020-21</li></ul>
26.12	<ul style="list-style-type: none"><li>Preparation of Electronic question Bank for VII and VIII Semester UG courses <b>The Question Banks for VII Semester Scheme 2014 are ready and will be validated in Odd Semester 2020-21.</b></li><li>To review solutions to all questions of Electronic Question Banks for all courses upto V Semester (SoE 2014) Solutions of Electronic Question Banks are in process.</li></ul>
26.13	<p>To discuss and suggest the changes/additions/deletions alterations in the existing Evaluation process for theory and other courses.</p> <ul style="list-style-type: none"><li><b>No suggestions</b></li></ul>
26.14	<p>To discuss and propose Scheme for Minor and Honor Course and its Syllabus</p> <ul style="list-style-type: none"><li>SoE and Syllabus of Minor and Major Course were discussed . Changes in the syllabus were suggested by external experts.</li></ul> <p>B.E (Minors) in Electric Vehicles B.E (Honors) in Microgrid Technologies</p> <ul style="list-style-type: none"><li><b>ANNEXURE C</b></li></ul>
26.15	<p>Any other matter with the permission of the Chair</p>

Dr.S.P.Adhau

HoD & Chairman(BoS)



Nagar Yuwak Shikshan Sanstha's

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## Department of Electrical Engineering

Date: 8/2/ 2021

### 27<sup>th</sup> Board of Studies in Electrical Engineering Minutes of the Meeting

Meeting of the Board of Studies (BoS) in Electrical Engineering was held on Saturday 30 January 2021 at 11.30 am in the Department of Electrical Engineering, YCCE, Nagpur. The meeting was attended by the following members of BoS.

S. N.	Name	S. N.	Name
1.	Dr.S.P.Adhau (Chairman,BoS )	15	Ms.J.M.Kumbhare
2.	Prof.Sanjay Dambhare(VC Nominee)	16	Mr.P.S.Shete
3.	Dr.B.S.Umre (Academic)	17	Mr.S.R.Gaigowal
4.	Dr.Altaf Badar(Alumni)	18	Mr.P.B.Joshi
5.	Dr.R.M.Moharil	19	Ms.S.L.Tiwari
6.	Dr.S.G.Kadwane	20	Mrs.U.V.Waghmare
7.	Mr.R.N.Nagpure	21	Ms.N.T.Sahu
8.	Dr.P.M.Meshram	22	Mr.R.S.Khonde
9.	Dr.S.P.Gawande	23	Ms.N.P.Wasnik
10.	Dr.S.S.Gokhale	24	Ms.T.D.Tembhekar
11.	Dr.B.Y.Bagde	25	Ms.Swati Mohod
12.	Mr.J.A.Shaikh	26	Ms.S.B.Rewatkar(Kewte)
13.	Mr.R.M.Gimonkar	27	Mr.P.S.Patil
14.	Mrs.Xma R.Pote	28	V.R.Doifode

### Leave of absence

S. N.	Name	S. N.	Name
1.	Dr.M.A.Chaudhari (Academic)	5	Mr.A.P.Munshi
2.	Mr.Pramod Chimankar(Industry)	6	Dr.B.Y.Bagde
3.	Dr.A.Y.Fadnis	7	Mr.A.S.Lilhare
4.	Mr.G.C.Gondhalekar	8	Mr.B.S.Sudame



## Department of Electrical Engineering

### Minutes of BoS Meeting No. 27

27.01	Welcome of new members <b>Dr.Sarika Patil</b> <b>Nivedita Pande</b> <b>Akshay Kadu</b> <b>Shweta Ghadyalji</b> <b>Harsha Kukde</b>
27.02	Confirmation of minutes of previous Meeting and action taken report on decisions /suggestions of the previous meeting. <ul style="list-style-type: none"><li>• <b>Minutes of 26<sup>th</sup> BoS Meeting and action taken report were presented and confirmed</b></li></ul>
27.03	To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2014 & Autonomous 2018) of the Undergraduate and Post graduate programs conducted under the Board <ul style="list-style-type: none"><li>• <b>No suggestions for changes in SoE 2014 and 2018</b></li></ul>
27.04	To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2014 & Autonomous 2018 Schemes of Undergraduate and Post graduate programs conducted under the Board. <ul style="list-style-type: none"><li>• <b>Suggestion for minor change in syllabus for following subject were presented and discussed.Expert members suggested some more changes and finalized.</b></li></ul> <p><b>VIII Semester: EL1436: PE IV : Fundamentals of Smart Grid(Annexure A)</b></p>
27.05	To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate and Postgraduate Programs. <ul style="list-style-type: none"><li>• <b>No suggestions for the changes in the books</b></li></ul>
27.06	To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under-Graduate and Post-Graduate programs. <ul style="list-style-type: none"><li>• <b>No Suggestions for change in list of experiments</b></li></ul>
27.07	To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board. <ul style="list-style-type: none"><li>• <b>No suggestions for changes in Academic Regulations</b></li></ul>
27.08	To discuss and propose the new courses/MOOC received from the faculty for inclusion in the curriculum <ul style="list-style-type: none"><li>• <b>IV SEMESTER :Electrical Energy Generation System</b></li><li>• <b>VI SEMESTER: Illumination Engineering</b></li><li>• <b>VIII SEMESTER : Renewable Energy Sources</b></li></ul>



## Department of Electrical Engineering

27.09	<p>To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Even Term 2020-201</p> <ul style="list-style-type: none"><li>• <b>Panel of Paper setters, moderators and valuers for the various theory courses at Undergraduate programs will be included in the list of YA 11 for End Semester Examination of Even Term 2020-21</b></li></ul>
27.10	<p>To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Even Term 2020-21</p> <ul style="list-style-type: none"><li>• <b>Panel of Paper setters, moderators and valuers for the various theory courses at Postgraduate programs will be included in the list of YA 11 for End Semester Examination of Even Term 2020-21</b></li></ul>
27.11	<p>To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination Even Term 2020-21</p> <ul style="list-style-type: none"><li>• <b>Panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels have been included in YA12 Even Term 2020-21</b></li></ul>
27.12	<p>Updation/Preparation of Electronic question Bank upto VI Sem UG courses To review solutions to all questions of Electronic Question Banks for all courses upto IV SEM (SoE 2018)</p> <ul style="list-style-type: none"><li>• <b>Updation of Electronic Question Bank upto VI Semester has been done.</b></li><li>• <b>Solutions to all questions of Electronic Question Banks for all courses upto IV SEM (SoE 2018) : (In progress)</b></li></ul>
27.13	<p>Updation/Preparation of subject Note Book for UG Courses. To consolidate the number of subjectwise Note Books prepare as per SoE and plan for preparing Note Books for remaining subjects. Also to review the updation of already prepared Note Books.</p> <ul style="list-style-type: none"><li>• <b>Notebook for some of the UG Courses has been prepared</b></li><li>• <b>Notebooks for remaining subjects will be prepared</b></li></ul>
27.14	<p>Any other matter with the permission of the Chair</p> <ul style="list-style-type: none"><li>• <b>Discussion of new M.Tech Course (Renewable Energy and Power System) SoE and Syllabus were presented before the experts and discussed. Experts suggested some changes after which the Syllabus will be finalized.</b></li></ul>

Dr.S.P.Adhau

HoD &amp; Chairman(BoS)



Nagar Yuwak Shikshan Sanstha's

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## Department of Electrical Engineering

Date:7 /8/ 2021

### 28<sup>th</sup> Board of Studies in Electrical Engineering Minutes of the Meeting

Meeting of the Board of Studies (BoS) in Electrical Engineering was held on Saturday 31 July 2021 at 11. am in the Department of Electrical Engineering, YCCE, Nagpur in online mode. The meeting was attended by the following members of BoS.

S. N.	Name	S. N.	Name
1.	Dr.S.G.Kadwane (Chairman, BoS )	17	Ms.J.M.Kumbhare
2.	Dr.S.S.Ambekar (VC Nominee)	18	Mr.P.S.Shete
3.	Dr.V.S.Kale (Academic)	19	Mr.S.R.Gaigowal
4.	Dr.Ritesh Keshri (Academic)	20	Mr.P.B.Joshi
5.	Dr.R.M.Moharil	21	Ms.S.L.Tiwari
6.	Dr.S.P.Adhau	22	Mrs.U.V.Waghmare
7.	Mr.R.N.Nagpure	23	Ms.N.T.Sahu
8.	Dr.P.M.Meshram	24	Mr.R.S.Khonde
9.	Dr.S.P.Gawande	25	Ms.N.P.Wasnik
10.	Dr.S.S.Gokhale	26	Ms.T.D.Tembhekar
11.	Dr.B.Y.Bagde	27	Ms.Swati Mohod
12.	Mr.J.A.Shaikh	28	Ms.S.B.Rewatkar(Kewte)
13.	Mr.R.M.Gimonkar	29	Mr.P.S.Patil
14.	Mrs.Xma R.Pote	30	V.R.Doifode
15.	Dr.A.P.Munshi	31	Mr.A.S.Lilhare
16.	Dr.S.D.Patil	32	Mr.B.S.Sudame

Leave of absence was granted to :

S. N.	Name	S. N.	Name
1.	Mr.Rahul Nagpure (Alumni)	4	Harsha S.Kukde
2.	Mr.Pravin Palkar (Industry)	5	Akshay Kadu
3.	Shweta S.Ghadyalji		

**Department of Electrical Engineering**

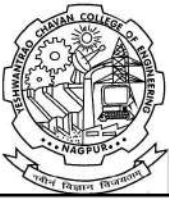
28.01	<b>Welcome of new members</b> New Panel of external members was welcomed: Dr.S.S. Ambekar (VC Nominee) Dr.V.S.Kale (Academic Member) Dr.Ritesh Keshri (Academic Member) Mr.Pravin Palkar (Industry Expert) Mr.Rahul Nagpure (Alumni)
28.02	Confirmation of minutes of previous Meeting and action taken report on decisions /suggestions of the previous meeting. Minutes of previous Meeting were confirmed
28.03	To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2014 & Autonomous 2018) of the Undergraduate and Post graduate programs conducted under the Board Changes in SoE M.Tech was suggested (Addition of Professional electives) 1) PE2: Wide Area Monitoring and Control 2) PE2: Microgrid 3) PE3: Solar System Design • <b>Annexure 28.03</b>
28.04	To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2014 & Autonomous 2018 Schemes of Undergraduate and Post graduate programs conducted under the Board. Minor changes in the PG Subject of EL3920 Restructuring of Power System were suggested and approved by BoS Members • <b>Annexure 28.04</b>
28.05	To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate and Postgraduate Programs. • <b>No suggestions received</b>
28.06	To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under-Graduate and Post-Graduate programs. • <b>No suggestions received</b>
28.07	To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board. • <b>No suggestions received</b>





## Department of Electrical Engineering

28.08	<p>To discuss and propose the new courses/MOOC received from the faculty for inclusion in the curriculum</p> <p>Following MOOC course was suggested to be included as Professional elective II in VII<sup>th</sup> Semester</p> <ul style="list-style-type: none"><li>• Sensors and Actuators</li></ul> <p>Following New Industry aligned Course was suggested and approved to be included in OEI : V<sup>th</sup> Semester and OEIII VI<sup>th</sup> Semester list:</p> <ul style="list-style-type: none"><li>• Solar Power Plant Design</li><li>• Annexure 28.08</li></ul>
28.09	<p>To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Odd Term 2021-2022</p> <ul style="list-style-type: none"><li>• <b>Panel of Paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs will be included in the list of YA 11 for End Semester Examination of Odd Term 2021-22</b></li></ul>
28.10	<p>To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Odd Term 2021-2022</p> <ul style="list-style-type: none"><li>• <b>Panel of Paper setters, Moderators and Valuers for the various theory courses at Postgraduate programs will be included in the list of YA 11 for End Semester Examination of Odd Term 2021-22</b></li></ul>
28.11	<p>To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination Odd Term 2021-2022</p> <ul style="list-style-type: none"><li>• <b>Panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels will be included in the list of YA 12 for End Semester Examination of Odd Term 2021-22</b></li></ul>
28.12	<ul style="list-style-type: none"><li>• Preparation of Electronic question Bank UG courses according to SoE 2018</li><li>• To review solutions to all questions of Electronic Question Banks for all courses</li></ul> <p><b>A review of Question Bank and Solution sets was taken.</b></p>
28.13	<p>To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses.</p>



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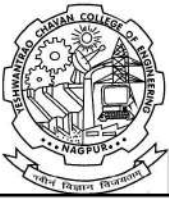
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## Department of Electrical Engineering

	<ul style="list-style-type: none"><li>• <b>No suggestions received</b></li></ul>
28.14	<p>To discuss and propose scheme for Minor an Honor course and its syllabus. Discussed and proposed Certificate courses and value added courses in 2021-22.</p> <p>The SoE of Minor and Honor courses was presented before the external BoS Members.</p>
28.15	<p>Any other matter with the permission of the Chair</p> <ul style="list-style-type: none"><li>• <b>The VII Semester EL2423: Professional elective III : Electrical Energy Audit and Safety Analysis to be renamed as Electrical Energy Management and Audit.</b></li></ul>

*S. Kadwane*

Dr.S.G.Kadwane  
HoD & Chairman (BoS)



## Department of Electrical Engineering

The screenshot shows a Google Meet interface. The main window displays a presentation slide with the following content:

Continuation of minutes of previous meeting and action items report on decision/suggestions of the previous meeting.

- Annexure 28.02
- 28.03 To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2014 & Autonomous 2018) of the Undergraduate and Post graduate programs conducted under the Board.  
Annexure 28.03
- 28.04 To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2014 & Autonomous 2018 Schemes of Undergraduate and Post graduate programs conducted under the Board.  
Annexure 28.04
- 28.05 To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate and Postgraduate Programs.

The meeting controls at the bottom show the time as 11:11 AM and the user as fakgdsape. The People panel on the right lists participants: DR. RITESH KUMAR KESHRI, JAWED ANWAR SHAIKH, JYOTI KUMBHARE, NAINARA WASNIK, PIYUSH PATIL, PRAFULLCHANDRA MES..., and PRANAY SHETE.

The screenshot shows a Google Meet interface in gallery view. The participants are arranged in a grid:

- Row 1: Bhushan Bagde (B), SUMANT KADWANE (S), XMA POTE (X), Shubhangi Ambekar (S), VIJAY KALE (V)
- Row 2: SANDEEP GAIGOWAL (S), SARALA ADHAU (S), 14 others (D, P), You (S)

The meeting controls at the bottom show the time as 11:21 AM and the user as fakgdsape.



Nagar YuwakShikshanSanstha's

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Department of Electronics Engineering

Boards of Studies in Electronics Engineering

Boards of Studies in Electronics Engineering

Minutes of the Meeting No. 27

Meeting No. 27,

Date: 5<sup>th</sup> June 2020

Meeting no. 27 of the Board of Studies in Electronics Engineering was held online on 5<sup>th</sup> June 2020 at 3.00 P.M.

The meeting was attended by the following members of BoS.

- |                         |                          |                         |
|-------------------------|--------------------------|-------------------------|
| 1. Dr.R.B.Deshmukh      | 12. Mr. A. V. Gokhale    | 23. Mr.V.D. Alagdeve    |
| 2. Dr.K.D.Kulat         | 13. Ms. P. P. Zode       | 24. Mr. A.A.Peshettiwar |
| 3. Dr.P.R.Deshmukh      | 14. Mr. P. P. Zode       | 25. Mrs. Y. A. Gaidhani |
| 4. Dr.P.T.Karule        | 15. Mrs. P. P. Palsodkar | 26. Ms.P.R.Chaudhari    |
| 5. Mr. S.M.Kakde        | 16. Mrs.R. S. Balpande   | 27. Mrs.T.G.Panse       |
| 6. Dr.P.K.Dakhole       | 17. Mrs. M.N. Kalbande   | 28. Mrs.S.A.Dhondse     |
| 7. Dr. A.V. Bapat       | 18. Mr.P.M. Palsodkar    |                         |
| 8. Dr.A.S.Khobragade    | 19. Ms.A.D.Tijare        |                         |
| 9. Dr. R. D. Thakare    | 20. Ms. P.A. Jadhav      |                         |
| 10. Dr.S.V.Rathkantiwar | 21. Mr. K.G.Pande        |                         |
| 11. Mr.S.Y.Ambatkar     | 22. Mr.A.B.Thatere       |                         |

Leave of absence was granted to

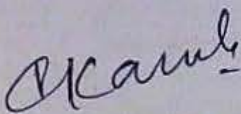
1. Mr. Unmesh Oke 2.Prof.Chaitali Darode

The following agenda points were deliberated in the meeting

27.01	Welcome of new members No Change
27.02	Installation of member Secretary No Change
27.03	To confirm the minutes of 26 <sup>th</sup> Meeting of BoS. <b>The minutes of the 26<sup>th</sup> Meeting of BoS in Electronics Engineering held on 11<sup>th</sup> January 2020 were placed on the table by Chairman Dr.P.T.Karulewere confirmed unanimously.</b>
27.04	To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2014 & Autonomous 2018) of the Undergraduate and Post graduate programs conducted under the Board <b>One Subject "Microprocessor Programming" is added as Open Electives which is beneficial for the placement purposes.</b>
27.05	To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2014 Schemes of and Post graduate programs conducted under the Board. <b>No Change</b>
27.06	To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate and Postgraduate Programs. <b>No Change</b>
27.07	To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under-and Post Graduate programs.(Comment: The laboratory courses may be described in greater details for easy understanding by students.) <b>No Change</b>
27.08	To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board. <b>No Change</b>
27.9	To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum. <b>No Change</b>
27.10	To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of ODD Term 2020-21. <b>:-The panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs for End Semester Examination of ODD Term 2020-21 was constituted.</b>
27.11	To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of ODD Term 2020-21. (Comment: Question papers of all the courses of PG programs are set and evaluated by the course instructor from ODD Term 2020-21. The grades of the students will also be decided by the Course Instructors.) <b>:-The panel of paper setters, Moderators and Valuers for the various theory courses at Postgraduate programs for End Semester Examination of ODD Term 2020-21 was constituted.</b>
27.12	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 2020-21.

	<b>The panel of internal and external examiners for the various laboratory courses at UG and PG levels for End Semester Examination of ODD Term 2020-21 was constituted.</b>
27.13	Preparation of Electronic question Bank for VII and VIII Sem UG courses according to SoE 2018 To review solutions to all questions of Electronic Question Banks for all courses of V SEM  <b>Preparation of Electronic question Bank for VII and VIII Semester UG courses is in Progress. To review solutions to all questions of Electronic Question Bank for all courses of V semester. (In Progress)</b>
27.14	To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses.  <b>Theory Examination:</b> 1. MSE – 30 Marks 2. TA – Part 1: Teachers Assessment = 10 Marks & Part 2: Quizzes=20 Marks 3. ESE=40 Marks <b>Practical Examination:</b> MSPA1=15 Marks MSPA2=15 Marks MSPA3=15 Marks MSPA4=15 Marks
27.15	To discuss and propose scheme for Minor and Honor course and its syllabus.  Discuss and proposed scheme for Minor and Honor course and its syllabus.
27.16	Any other matter with the permission of the Chair  <b>1. Regarding NPTEL courses Mapping with SoE</b> One course from each semester is mapped with NPTEL courses. III Semester – Signal and Systems V Semester – Embedded Systems VII Semester – Embedded Systems  <b>2. Formal Thanks to External Experts on behalf of the BoS Chairman, BoS Members and member secretary.</b>

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



**Dr. P. T. Karule**  
Chairman  
BoS in Electronics Engineering



**Mr. S. M. Kakde**  
Member Secretary  
BoS in Electronics Engineering

Date: 5<sup>th</sup> June 2020

### Composition of Board of Studies in Electronics Engineering

S. No.	Provision	Name of Member	Membership
1.	Head of the department	<b>Dr. P. T. Karule</b>	<b>Chairman</b>
2.	Faculty Member	<b>Mr. S. M. Kakde</b>	<b>Member Secretary</b>
3.	Faculty Member	Dr. A.V. Bapat	Member
4.	Faculty Member	Dr.A.S.Khobragade	Member
5.	Faculty Member	Dr. P. K. Dakhole	Member
6.	Faculty Member	Dr. R. D. Thakare	Member
7.	Faculty Member	Dr.S.V.Rathkantiwar	Member
8.	Faculty Member	Mr. M.S.Pawar	Member
9.	Faculty Member	Mr. A. V. Gokhale	Member
10.	Faculty Member	Mr. A. B. Thatere	Member
11.	Faculty Member	Mr. S. Y. Ambatkar	Member
12.	Faculty Member	Dr. U. S. Ghodeswar	Member
13.	Faculty Member	Mr. P. P. Zode	Member
14.	Faculty Member	Dr. P. P. Palsodkar	Member
15.	Faculty Member	Ms. P. P. Zode	Member
16.	Faculty Member	Ms. T. G. Panse	Member
17.	Faculty Member	Ms. M. N. Kalbande	Member
18.	Faculty Member	Ms. Y. A. Gaidhani	Member
19.	Faculty Member	Ms. R. S. Balpande	Member
20.	Faculty Member	Mr.P. M. Palsodkar	Member
21.	Faculty Member	Ms. A. D. Tijare	Member
22.	Faculty Member	Mr. V. D. Alagdeve	Member
23.	Faculty Member	Ms. P.A.Jadhav	Member
24.	Faculty Member	Ms. R. S. Keote	Member
25.	Faculty Member	Ms. S. A. Dhondse	Member
26.	Faculty Member	Mr. A. A. Peshattiwar	Member
27.	Faculty Member	Mr. KuldeepPande	Member
28.	Subject expert from outside the college to be nominated by the	<b>Dr. R.B.Deshmukh</b>	Member

	Academic Council.		
29.	Subject expert from outside the college to be nominated by the Academic Council.	<b>Dr. K.D.Kulat</b>	Member
30.	Expert nominated by the vice-chancellor	<b>Dr.P.R.Deshmukh</b>	Member
31.	Representative from industry/corporate sector/allied area relating to placement.	<b>Mr. Unmesh Oak</b>	Member
32.	Postgraduate meritorious alumnus nominated by the Principal	<b>Ms. Chaitali Darode</b>	Member





Nagar Yuwak Shikshan Sanstha's  
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**B.E. SCHEME OF EXAMINATION 2018-19**  
 (Revised Scheme of Examination w.e.f. 2020-21 onward)

SoE No.  
EE-201

**Electronics Engineering**

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

**List of Audit Courses**

1	5	IT	IT1121	Industrial Programmin Language	A	3	0	0	3	0				
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**Professional Electives -I**

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

**Open Electives -I**

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

**Open Electives -II**

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

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

TA\*\* = for Theory : 12 marks on lecture quizzes, 12 marks on two TA2 activitied decided by course teacher, 2 marks on class attendance and 4 marks on TA4 activities

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

		June 2020	1.02	Applicable for AY 2020-21 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



Nagar YuwakShikshanSanstha's

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Department of Electronics Engineering

Boards of Studies in Electronics Engineering

Boards of Studies in Electronics Engineering

Minutes of the Meeting No. 28

Meeting No. 28,

Date: 29<sup>th</sup> January 2021

Meeting no. 28 of the Board of Studies in Electronics Engineering was held **online** on **29<sup>th</sup> January 2021** at 12.30 P.M. using Google Classroom Platform.

The meeting was attended by the following members of BoS.

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

Leave of absence was granted to

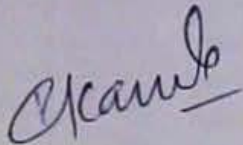
1. Mr. Unmesh Oke 2.Prof.Chaitali Darode

The following agenda points were deliberated in the meeting

28.01	Welcome of new members <b>No Change</b>
28.02	Installation of member Secretary <b>No Change</b>
28.03	To confirm the minutes of 27 <sup>th</sup> Meeting of BoS. <b>The minutes of the 27<sup>th</sup> Meeting of BoS in Electronics Engineering held on 5<sup>th</sup> June 2020 were placed on the table by Chairman Dr.P.T.Karulewere confirmed unanimously.</b>
28.04	To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2014&Autonomous 2018) of the Undergraduate and Post graduate programs conducted under the Board  <b>No Change</b>
28.05	To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2014 Schemes of and Post graduate programs conducted under the Board.  <b>Minor changes in the syllabi of Autonomous 2018 scheme are proposed. Details are as follows:</b>  <b>1. Minor changes in the syllabi of 5<sup>th</sup> Semester EE 2311- PE I: Computer Communication Network is proposed.</b> <b>2. Only COs were changed as per Blooms Taxonomy for the 1<sup>st</sup> Year Course EE2101 Basic Electronics.</b>
28.06	To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate and Postgraduate Programs.  <b>No Change</b>
28.07	To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under-and Post Graduate programs.(Comment: The laboratory courses may be described in greater details for easy understanding by students.)  <b>No Change</b>
28.08	To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board.  <b>No Change</b>
28.09	To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.  <b>No Change</b>
28.10	To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of EVEN Term 2020-21. <b>:-The panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs for End Semester Examination of EVEN Term 2020-21 was constituted.</b>
28.11	To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of EVEN Term 2020-21.  (Comment: Question papers of all the courses of PG programs are set and evaluated by the course instructor from EVEN Term 2020-21. The grades of the students will also be decided by the Course

	<p>:-The panel of paper setters, Moderators and Valuers for the various theory courses at Postgraduate programs for End Semester Examination of EVEN Term 2020-21 was constituted.</p>
28.12	<p>To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination EVEN Term 2020-21.</p> <p>:-The panel of internal and external examiners for the various laboratory courses at UG and PG levels for End Semester Examination of EVEN Term 2020-21 was constituted.</p>
28.13	<p>Updation/Preparation of Electronic question Bank upto VI Sem UG courses To review solutions to all questions of Electronic Question Banks for all courses upto IV SEM (SoE 2018)</p> <p>Preparation of Electronic question Bank for VII and VIII Semester UG courses is in Progress. To review solutions to all questions of Electronic Question Bank for all courses of IV semester. (In Progress)</p>
28.14	<p>Updation/Preparation of subject Note Book for UG Courses. To consolidate the number of subject wise Note Books prepare as per SoE and plan for preparing Note Books for remaining subjects. Also to review the updation already prepared Note Books.</p> <p>Before circulating Note Books to students, care must be taken that it should be validated through external experts and copyrights cannot be taken for the prepared notebooks. Updation of already prepared Note Books is in progress.</p>
28.15	<p>Any other matter with the permission of the Chair</p> <p>Formal Thanks to External Experts on behalf of the BoS Chairman, BoS Members and member secretary.</p>

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



**Dr.P.T.Karule**  
Chairman  
BoS in Electronics Engineering



**Dr.S.M.Kakde**  
Member Secretary  
BoS in Electronics Engineering

Date: 29<sup>th</sup> January 2021

### Composition of Board of Studies in Electronics Engineering

S. No.	Provision	Name of Member	Membership
1.	Head of the department	<b>Dr. P. T. Karule</b>	<b>Chairman</b>
2.	Faculty Member	<b>Dr. S. M. Kakde</b>	<b>Member Secretary</b>
3.	Faculty Member	Dr.A.S.Khobragade	Member
4.	Faculty Member	Dr. P. K. Dakhole	Member
5.	Faculty Member	Dr. R. D. Thakare	Member
6.	Faculty Member	Dr.S.V.Rathkantiwar	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. P. P. Zode	Member
14.	Faculty Member	Dr. Ms. T. G. Panse	Member
15.	Faculty Member	Dr. Ms. M. N. Kalbande	Member
16.	Faculty Member	Dr. Ms. Y. A. Gaidhani	Member
17.	Faculty Member	Ms. R. S. Balpande	Member
18.	Faculty Member	Dr. Mr.P. M. Palsodkar	Member
19.	Faculty Member	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. R. S. Keote	Member
23.	Faculty Member	Ms. S. A. Dhondse	Member
24.	Faculty Member	Mr. A. A. Peshattiwar	Member
25.	Faculty Member	Mr. KuldeepPande	Member
26.	Subject expert from outside the college to be nominated by the Academic Council.	<b>Dr. R.B.Deshmukh</b>	Member

27.	Subject expert from outside the college to be nominated by the Academic Council.	<b>Dr. K.D.Kulat</b>	Member
28.	Expert nominated by the vice-chancellor	<b>Dr.P.R.Deshmukh</b>	Member
29.	Representative from industry/corporate sector/allied area relating to placement.	<b>Mr. Unmesh Oak</b>	Member
30.	Postgraduate meritorious alumnus nominated by the Principal	<b>Ms. Chaitali Darode</b>	Member

5<sup>th</sup>Semester

EE2311	PE I:Computer Communication Network	L = 3	T = 0	P = 0	Credits = 3
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Evaluation Scheme	MSE-I	MSE-II	TA	ESE	Total	ESE Duration
	15	15	10	60	100	3 Hrs

Objective	Outcomes
<ul style="list-style-type: none"> <li>➤ To learn basics of data communication, wireless transmission, spread spectrum, medium access control- FDMA, TDMA &amp; CDMA.</li> <li>➤ To study TCP/IP, ARP, RARP, UDP protocols &amp; addressing.</li> <li>➤ To study network security &amp; its applications.</li> </ul>	<p>Students will be able to</p> <ol style="list-style-type: none"> <li>1. Describe various protocols, models in Computer Networks</li> <li>2. Compare Connectors, Network hardware, Media Types (cables, Wireless)</li> <li>3. Design, implement and analyze simple computer networks.</li> <li>4. Apply the different strategies and Operations of TCP/UDP, FTP, HTTP protocols</li> </ol>

Objective	Outcomes
<ul style="list-style-type: none"> <li>➤ To understand the basic concepts of data communication, layered model, protocols and interworking between computer networks and switching components in telecommunication systems.</li> <li>➤ To learn basic concepts of internetworking, addressing, routing, concepts and techniques in error detection and correction.</li> <li>➤ An overview of security issues related to data communication in networks</li> </ul>	<p>Students will be able to</p> <ol style="list-style-type: none"> <li>1. Understand and explain the concept of Data Communication and networks, layered architecture and their applications, transmission Media, Media Access Control Wireless LAN, Network Connecting Devices in Computer Networks</li> <li>2. Demonstrate Data Link Layer Protocols, Routing Algorithms, congestion Control, TCP/IP protocol, IP addressing</li> <li>3. Describe design application layer protocols and internet applications such as Electronic Mail, and File Transfer, WWW and HTTP and DNS</li> <li>4. Explain Cryptography, Digital Signature, Entity Authentication, FIREWALLS, SSL Services</li> </ol>

UNIT-1:

Introduction, network and services: communication network, approaches to network design, types of network, two stage and three stage network. Uses of computer networks, LAN, MAN, WAN, design issues for layers, connection oriented and connectionless services, service primitives, Application and layered architecture, OSI reference model.

UNIT-2 :

Physical layer-LAN-network-and medium access layer: Guided transmission media, Unguided transmission media LAN-structure, random-access, multiple access protocols, IEEE standard 802 for LAN and MAN, high speed LANS, repeaters, hubs, bridges, fast Ethernet, Wireless LAN

UNIT-3:

Physical layer and data link layer: transmission-media, PSTN. Data link layer design issues, Framing, error detection and correction methods, , Flow Control ,elementary data link protocols, sliding window protocols.

UNIT-4:

Network layer and transport layer: network layer design issues, routing, congestion, internetworking, transport layer design issues, transport service primitives, internet transport protocol, TCP/IP architecture, TCP/IP protocol, IP packets, IP addressing, TCP/IP utilities, wireless TCP and UDP, routers and gateways

UNIT-5:

Application layer: ~~network security cryptography, secrete key, public key, digital signature~~, domain name system, electronic mail system, Remote Logging and File Transfer, WWW and HTTP, Multimedia.

UNIT-6: ~~Security-Cryptography-Multimedia-real-time-transport-protocol~~, e-mail security, web security, communication security, ~~electronic-mail-world-wide-web~~ Digital Signature Entity Authentication, FIREWALLS, SSL Services

Text books:

1	Computer Networks	3 <sup>rd</sup> Edition, 1996	Tanenbaum	Prentice Hall
2	Data Communications and Networking	4 <sup>th</sup> edition, 2007	Behrouz a Forouzan	Tata Mc. Graw Hill

Reference books:

1	Data and Computer Communication	8th Edition, 2006	W. Stallings	Prentice Hall
2	Telecommunication switching systems and networks	2004.	T. Vishwanathan	Prentice Hall



5<sup>th</sup> Semester

EE2311	PE I:Computer Communication Network	L = 3	T = 0	P = 0	Credits = 3
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Evaluation Scheme	MSE-I	MSE-II	TA	ESE	Total	ESE Duration
	15	15	10	60	100	3 Hrs

Objective	Outcomes
<ul style="list-style-type: none"> <li>➤ To understand the basic concepts of data communication, layered model, protocols and interworking between computer networks and switching components in telecommunication systems.</li> <li>➤ To learn basic concepts of internetworking, addressing, routing, concepts and techniques in error detection and correction.</li> <li>➤ An overview of security issues related to data communication in networks</li> </ul>	<p>Students will be able to</p> <ol style="list-style-type: none"> <li>1. Understand and explain the concept of Data Communication and networks, layered architecture and their applications, transmission Media, Media Access Control Wireless LAN, Network Connecting Devices in Computer Networks</li> <li>2. Demonstrate Data Link Layer Protocols, Routing Algorithms, congestion Control, TCP/IP protocol, IP addressing</li> <li>3. Describe design application layer protocols and internet applications such as Electronic Mail, and File Transfer, WWW and HTTP and DNS</li> <li>4. Explain Cryptography, Digital Signature, Entity Authentication, FIREWALLS, SSL Services</li> </ol>

UNIT-1: Introduction, network and services: communication network, approaches to network design, types of network, two stage and three stage network. Uses of computer networks, LAN, MAN, WAN, design issues for layers, connection oriented and connectionless services, service primitives, Application and layered architecture, OSI reference model.

UNIT-2: Physical layer and medium access layer: Guided transmission media, Unguided transmission media, multiple access protocols, IEEE standard 802 for LAN and MAN, high speed LANS, repeaters, hubs, bridges, fast Ethernet, Wireless LAN

UNIT-3: Data link layer: Data link layer design issues, Framing, error detection and correction methods, Flow Control, elementary data link protocols, sliding window protocols.

UNIT-4: Network layer and transport layer: network layer design issues, routing, congestion, internetworking, transport layer design issues, transport service primitives, internet transport protocol, TCP/IP architecture, TCP/IP protocol, IP packets, IP addressing, TCP/IP utilities, wireless TCP and UDP, routers and gateways

UNIT-5: Application layer: domain name system, electronic mail system, Remote Logging and File Transfer, WWW and HTTP, Multimedia.

UNIT-6: Security Cryptograph, e-mail security, web security, communication security, Digital Signature Entity Authentication, FIREWALLS, SSL Services

**Text books:**

1	Computer Networks	3 <sup>rd</sup> Edition, 1996	Tanenbaum	Prentice Hall
2	Data Communications and Networking	4 <sup>th</sup> edition, 2007	Behrouz a Forouzan	Tata Mc. Graw Hill

**Reference books:**

1	Data and Computer Communication	8th Edition, 2006	W. Stallings	Prentice Hall
2	Telecommunication switching systems and networks	2004.	T. Vishwanathan	Prentice Hall

EE2101	Basic Electronics(OLD)	L= 3	T= 1	P= 0	Credits = 4
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Evaluation Scheme	MSE-I	MSE-II	TA	ESE	Total	ESE Duration
	15	15	10	60	100	3 Hrs

Objectives	Outcomes
<ul style="list-style-type: none"> <li>To expose all the engineering students to basic principles of Electronics.</li> <li>To bridge different branches of engineering enabling new inter-disciplinary areas to grow.</li> <li>To enlighten students to experiment with basic electronic circuits to enable them to understand its basic application of electronics in day to day life.</li> </ul>	<ol style="list-style-type: none"> <li>Understand basic concepts of digital electronics and able to design different digital logic circuits.</li> <li>Understand the concepts of basic devices like Diode and Transistor.</li> <li>Understand the fundamentals and areas of applications for the integrated circuits.</li> <li>To Acquire the knowledge about electronics measurement and instrumentation.</li> </ol>

#### Unit I: Number Systems and Codes

Introduction, Number System, Binary Number System, Signed Binary Numbers, Binary Arithmetic, 1's and 2's Complement Arithmetic, Octal Number System, Hexadecimal Number System, Codes- BCD code and Gray Code, BCD arithmetic.

(7 Hours)

#### Unit II: Digital Principles and Logic Design

Logic Gates, Boolean Laws & Algebras, Sum of Product & Product of Sum, Combinational Logic Design - Half & Full Adder, Half & Full Subtractor, Sequential Logic Circuits – Flip-flops.

(8 Hours)

#### Unit III: Electronic Devices and its Applications

Introduction, operation and Characteristics of Diode, BJT and FET, Application of Diode as a Rectifier, BJT as a Switch and Amplifier.

(7 Hours)

#### Unit IV: OPAMP and its application

Introduction to Op-Amp, Inverting and Non-Inverting Amplifier, Linear Applications of OP-AMP, Comparator.

(8 Hours)

#### Unit V: Measurement and Instruments

Introduction, Important terms in measurement such as accuracy, precision, sensitivity, Types of errors & their sources, Static & dynamic characteristics of measurement system, Bridges - Wheatstone bridge, Maxwell Bridge, Schering bridge, Meters- Ammeter, Voltmeter and Multimeter.

(7 Hours)

#### Unit VI: Sensors and Transducer

Strain Gauges, LVDT, Classification of transducers, transducers actuating mechanisms, resistive, capacitive, and inductive transducers, thermoelectric & photoelectric transducers, Temperature sensors.

(8 Hours)

- "Modern Digital Electronics" by R. P. Jain, 4<sup>th</sup> Edition, McGraw Hill Education Private Limited, published in 2015
- " Electronics Devices and Circuit Theory", by Robert L. Boylestad, Louis Nashelsky, 10<sup>th</sup> edition, Pearson Private Limited, Published in 2009.
- " OP-AMP and Linear Integrated Circuit", by Ramakant A. Gayakwad, Prentice Hall India Learning Private Limited, Published in 2002.
- "Electrical & Electronic measurement & Instrument", A. K. Sawhney, Dhanpat Rai & Co., 18th edition 2008.

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(Acad. Matters)		Date of Release		

<b>EE2101</b>	<b>Basic Electronics</b>	<b>L= 3</b>	<b>T = 1</b>	<b>P = 0</b>	<b>Credits = 4</b>
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Evaluation Scheme	MSE-I	MSE-II	TA	ESE	Total	ESE Duration
	15	15	30	40	100	3 Hrs

Objectives	Outcomes
<ul style="list-style-type: none"> <li>To expose all the engineering students to basic principles of Electronics.</li> <li>To bridge different branches of engineering enabling new inter-disciplinary areas to grow.</li> <li>To enlightened students to experiment with basic electronic circuits to enable them to understand its basic application of electronics in day to day life.</li> </ul>	<ol style="list-style-type: none"> <li>Characterize Number systems, semiconductors, diodes, transistors and operational amplifiers.</li> <li>Design simple analog circuits</li> <li>Design simple combinational and sequential logic circuits</li> <li>Identify functions of digital multimeter, Bridges and transducers in the measurement of physical variables</li> </ol>

#### Unit I: Number Systems and Codes

Introduction, Number System, Binary Number System, Signed Binary Numbers, Binary Arithmetic, 1's and 2's Complement Arithmetic, Octal Number System, Hexadecimal Number System, Codes- BCD code and Gray Code , BCD arithmetic.

(7 Hours)

#### Unit II: Digital Principles and Logic Design

Logic Gates, Boolean Laws & Algebras, Sum of Product & Product of Sum, Combinational Logic Design - Half & Full Adder, Half & Full Subtractor, Sequential Logic Circuits – Flip-flops.

(8 Hours)

#### Unit III: Electronic Devices and its Applications

Introduction, operation and Characteristics of Diode, BJT and FET, Application of Diode as a Rectifier, BJT as a Switch and Amplifier.

(7 Hours)

#### Unit IV : OPAMP and its application

Introduction to Op-Amp, Inverting and Non-Inverting Amplifier, Linear Applications of OP-AMP, Comparator.

(8 Hours)

#### Unit V: Measurement and Instruments

Introduction, Important terms in measurement such as accuracy, precision, sensitivity, Types of errors & their sources, Static & dynamic characteristics of measurement system, Bridges - Wheatstone bridge, Maxwell Bridge, Schering bridge, Meters- Ammeter, Voltmeter and Multimeter.

(7 Hours)

#### Unit VI: Sensors and Transducer

Strain Gauges, LVDT, Classification of transducers, transducers actuating mechanisms, resistive, capacitive, and inductive transducers, thermoelectric & photoelectric transducers, Temperature sensors.

(8 Hours)

- "Modern Digital Electronics" by R. P. Jain, 4<sup>th</sup> Edition, McGraw Hill Education Private Limited, published in 2015
- " Electronics Devices and Circuit Theory", by Robert L. Boylestad, Louis Nashelsky, 10<sup>th</sup> edition ,Pearson Private Limited, Published in 2009.
- " OP-AMP and Linear Integrated Circuit", by Ramakant A. Gayakwad, Prentice Hall India Learning Private Limited, Published in 2002.
- "Electrical & Electronic measurement & Instrument", A. K. Sawhney, Dhanpat Rai & Co., 18th edition 2008.

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## Department of Electronics Engineering

### Boards of Studies in Electronics Engineering

#### Minutes of the Curriculum Development Workshop (CDW-2019)

Meeting No. VIII,

Date: 1<sup>st</sup> May 2021

Curriculum Development Workshop for the revision of SoE and syllabi of 7<sup>th</sup> and 8<sup>th</sup> Semester UG under Board of Studies in Electronics Engineering was held online( Google Meet Link platform) on 1<sup>st</sup> May 2021 from 10.00 AM to 12.00 PM.

Faculty members of Department of Electronics Engineering attended the meeting. Subject experts were,

1. Dr. R.B. Deshmukh, VNIT, Nagpur.

The meeting was conducted by Chairman BoS Dr.P.T.Karule. The following agenda points were deliberated in the meeting.

The agenda for the workshop is as follows:

1. Framing of syllabus for 7<sup>th</sup> and 8<sup>th</sup> Semester UG SoE 2018-19
2. Curriculum for Honors and Minor Scheme
  - (i) B.E Honors -VLSI
  - (ii) B.E Minor -IoT
  - (iii) B.E Honors - Wireless Communication -2021-22
  - (iv) B.E. Honors in Cryptography (SWAYAM/NPTEL Courses) -2021-22
3. Scheme for 7<sup>th</sup> and 8<sup>th</sup> Semester

Semester	Groups	Approximate Strength	Pattern
7	Group-A	60	Subjects
7	Group-B	60	Project
8	Group-B	60	Subjects
8	Group-A	60	Project

#### 4. Framing of 7<sup>th</sup> and 8<sup>th</sup> semester UG Scheme of Examination.

##### The minor changes in the syllabus

- The minor changes in the syllabus of the nature as given below was done and approved in the meeting.
  - Reorganization of the units,
  - Addition and deletion of some contents in syllabus,
  - Restructuring of syllabus etc.

The list of the subjects for which above points have been performed is given below

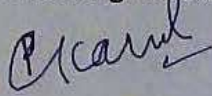
##### VII Semester:

SN	Semester	Course Codes	Subjects
1.	7	EE2401	Digital System Design
2.	7	EE2402	Lab: Digital System Design
<b>Professional Electives III:</b>			
3.	7	EE2411	PE III: Switching Theory & Finite Automata
4.	7	EE2412	PE III :Power Electronics
5.	7	EE2413	PE III: Wireless Sensor Network
6.	7	EE2414	PE III: VLSI Signal Processing
<b>Professional Electives IV:</b>			
7.	7	EE2421	PE IV: Wireless Communication
8.	7	EE2423	PE IV: RF and Microwave
9.	7	EE2425	PE IV: Analog VLSI Design
10.	7	EE2429	PE IV: Operating Systems
11.	7	EE2422	Lab. : PE IV:Wireless Communication
12.	7	EE2424	Lab. : PE IV: RF and Microwave
13.	7	EE2426	Lab. : PE IV: Analog VLSI Design
14.	7	EE2430	Lab. : PE IV:Operating Systems
<b>Professional Electives V:</b>			
15.	7	EE2431	PE V: Industrial Automation
16.	7	EE2432	PE V: Nano Electronics
17.	7	EE2433	PE V: Optical Communication
18.	7	EE2435	PE V: RF Circuit Design
<b>Professional Electives VI:</b>			
19.	7	EE2441	PE-VI: E-Commerce & Data Analytics
20.	7	EE2442	PE-VI: MEMS
21.	7	EE2443	PE-VI: Biomedical Instrumentation
22.	7	EE2445	PE-VI:Computer Organization

**VIII Semester:**

SN	Semester	Course Codes	Subjects
1.	8	EE	Major Project/Industrial Internship Evaluation
2.	8	EE	Extracurricular Activity Evaluation

The meeting was concluded with thanks to the Chair.



Dr.P.T.Karule  
Chairman  
BoS in Electronics Engineering



Dr. Sandeep Kakde  
Member Secretary  
BoS in Electronics Engineering

Date: 01-05-2021



Nagar YuwakShikshanSanstha's  
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1<sup>st</sup> June 2020

**Notice of Meeting**

To,

All the Members of  
Board of Studies in  
Electronics & Telecommunication Engineering

Dear Sir/ Madam,

**The 22<sup>nd</sup> meeting of the Board of Studies in Electronics & Telecommunication Engineering is scheduled on Saturday, 6<sup>th</sup> June 2020 at 4:00 pm through online mode (Cisco WebEx)**

The agenda for the meeting shall be as follows:

ITEM NO.	AGENDA POINT
22.01	Welcome of new members
22.02	Installation of member Secretary
22.03	Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.
22.04	To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2014 & Autonomous 2018) of the Undergraduate and Post graduate programs conducted under the Board
22.05	To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2014 & Autonomous 2018 Schemes of Undergraduate and Post graduate programs conducted under the Board.
22.06	To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate and Postgraduate Programs.
22.07	To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under-Graduate and Post Graduate programs.
22.08	To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board.
22.09	To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.
22.10	To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Odd Term 2020-21
22.11	To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Odd Term 2020-21
22.12	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





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End Semester Examination Odd Term 2020-21	
22.13	Preparation of Electronic question Bank for VII and VIII Sem UG courses according to SoE 2018. To review solutions to all questions of Electronic Question Banks for all courses of V SEM
22.14	To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses.
22.15	To discuss and propose scheme for Minor an Honor course and its syllabus.
22.16	Any other matter with the permission of the Chair. ➤ To discuss mapping of Core courses with NPTEL online available courses. ➤ To discuss syllabus of industry aligned course PLC & SCADA

Kindly make it convenient to attend the meeting.

**Dr. M.S. Dorle**  
Member Secretary  
BoS in E & T Engineering

**Dr. M.S. Narlawar**  
Chairman  
BoS in E & T Engineering



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**Minutes of the 22<sup>nd</sup> BOS Meeting**

**Date: 6<sup>th</sup> June 2020**

**The 22<sup>nd</sup> BOS of Electronics and Telecommunication Engineering was held on Saturday, 6<sup>th</sup> June 2020 at 4.00 pm. through online mode (Cisco WebEx)**

The meeting was attended by the following members of BOS.

Sr. No.	Name	Signature
01	Dr. K.D.Kulat, VNIT, Nagpur (VC Nominee)	Absent
02	Dr. A.S. Gandhi, VNIT, Nagpur	Present
03	Dr.A.G.Keskar, VNIT, Nagpur	Present
04	Mr. Satish Awari, Director, Samartha Electro Care Pvt.Ltd.,Nagpur	Absent
05	Mr.Anirudhha Kalbande, Director Fireblaze Technologies Pvt.Ltd.Nagpur	Present

Leave of absence was granted to –

Sr. No.	Name
1.	Dr. K.D.Kulat, VNIT, Nagpur
2.	Mr. Satish Awari, Director, Samartha Electro Care Pvt.Ltd.,Nagpur
3.	Prof. R.P. Deshmukh ET, YCCE
4.	Prof. A.A. Madanker ET, YCCE



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

ITEM NO.	AGENDA POINT
22.01	Welcome of new members. ---
22.02	Installation of member Secretary. -----
22.03	<b>Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.</b>  The minutes of the 21 <sup>st</sup> BOS meeting held on, 4 <sup>th</sup> January 2020 in Electronics and Telecommunication Engineering Department were placed on the table and were confirmed unanimously.
22.04	<b>To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2014 &amp; Autonomous 2018) of the Undergraduate and Post graduate programs conducted under the Board</b> <ul style="list-style-type: none"><li>• The Scheme of Examination of the courses offered in Autonomous 2014, scheme of the Undergraduate and Post graduate programs have been discussed and no changes have been suggested.</li><li>• <b>In Scheme of Examination Autonomous 2018 following changes were approved.</b><ul style="list-style-type: none"><li>➤ In 7<sup>th</sup> semester one industry aligned course under professional elective VI with course title "PLCs and SCADA" has been proposed and approved</li><li>➤ It was also proposed and approved to include one industry aligned course as open elective II and open elective IV with course title "PLCs and SCADA" in 5<sup>th</sup> semester.</li></ul></li></ul>
22.05	<b>To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2014 &amp; Autonomous 2018 Schemes of Undergraduate and Post graduate programs conducted under the Board.</b>  Minor Changes have been suggested by experts and were incorporated in UG syllabus for following Courses <b>ET 2254 : Analog communication</b> Minor changes in syllabus were done and approved <b>Changes in syllabus is below 20%</b>  Unit 1: deleted topic ISB  Unit 4: Television transmitter and Reception, Composite video signal, digital system hardware, signal quantization and encoding, LCD technology, LCD matrix types and operation deleted from Unit 4. And added topics were TV Fundamentals, Color



	<p>Composite Video Signal, Horizontal sync and blanking pulses, Vertical sync and blanking pulses, color burst signal, Interlaced and Sequential scanning, Resolutions, CCIR-B Standards, TV Transmitter and Receiver Block diagram</p> <p>Unit 5: Pulse Modulation Techniques added.</p> <p><b>ET 2201: Electronic Devices and Circuits</b></p> <ul style="list-style-type: none"><li>• Changes in syllabus were done and approved, according to mapping with NPTEL web course.</li><li>• Changes in syllabus is below 20%</li><li>• Unitization of syllabus is revised.</li></ul>
22.06	<p><b>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.</b></p> <p>No changes have been suggested</p>
22.07	<p><b>To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under-Graduate and Post Graduate programs.</b></p> <p>ET 2255: Analog communication Two new experiments in experiment list were added on topic Pulse modulation and approved.</p> <p>ET 2202: LAB Electronic Devices and Circuit Two experiments from experiment list were deleted which is based on portion deleted from syllabus and approved.</p>
22.08	<p><b>To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board.</b></p> <p>No changes have been proposed.</p>
22.09	<p><b>To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.</b></p> <p>-----</p>
22.10	<p><b>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 2020-21</b></p> <p>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 2020-21 have been prepared and proposed under YA11 of YCCE.</p>
22.11	<p><b>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 2020-21</b></p>




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	<p>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 2020-21 have been prepared and proposed under YA11 format of YCCE.</p>
22.12	<p><b>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 2020-21</b></p> <p>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 2020-21 have been prepared and proposed under YA12 format of YCCE.</p>
22.13	<p><b>Preparation of Electronic question Bank for VII and VIII Sem UG courses according to SoE 2018.</b></p> <p><b>To review solutions to all questions of Electronic Question Banks for all courses of V SEM</b></p> <p>As CDW for the courses of VII and VIII Sem UG courses for SoE 2018 is yet to be done. So Electronic question bank for the courses of VII and VIII Sem UG courses will be prepared after</p> <p>All questions of Electronic Question Banks for all courses of V SEM are reviewed.</p>
22.14	<p><b>To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses.</b></p> <p>No changes have been suggested.</p>
22.15	<p><b>To discuss and propose scheme for Minor an Honor course and its syllabus.</b></p> <p>Minor an Honor course and its syllabus discussed and proposed</p> <p>Minor Changes have been suggested by experts in the syllabus and were incorporated in Minor an Honor course.</p> <p><b>Industrial automation and robotics course</b>, the unit 2 is a quite big, hence sensors: speed, flow, level, humidity and pH measurement, power electronics devices DIAC, TRIAC, power MOSFET and IGBT were deleted and Introduction to Actuators was added</p> <p>In course <b>Machine learning</b> from unit 4 cost function, Weights initialization, Neural Network Training were deleted and from unit 6 unsupervised learning: k-means clustering deleted.</p>
22.16	<p>Any other matter with the permission of the Chair.</p> <ul style="list-style-type: none"><li>➤ To discuss mapping of Core courses with NPTEL online available courses. Mapping of Core courses with NPTEL online available courses were discussed and approved.</li><li>➤ To discuss syllabus of industry aligned course PLC &amp; SCADA</li></ul> <p>Syllabus of industry aligned course PLC &amp; SCADA was discussed and approved.</p>

  
Dr. M.S. Dorle  
Member Secretary  
BoS in E & T Engineering

  
Dr. M.S. Narlawar  
Chairman  
BoS in E & T Engineering



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## Department of Electronics & Telecommunication Engineering

YCCE/ET/NOTICE/BOS/23

29<sup>th</sup> January 2021

### Notice of Meeting

To,  
All the Members of  
Board of Studies in  
Electronics & Telecommunication Engineering

Dear Sir/ Madam,

The 23<sup>rd</sup> meeting of the Board of Studies in Electronics & Telecommunication Engineering is scheduled on Saturday, 30<sup>th</sup> January 2021 at 11:00 am through online mode (Google meet)

The agenda for the meeting shall be as follows:

ITEM NO.	AGENDA POINT
23.01	Welcome of new members
23.02	Installation of member Secretary
23.03	Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.
23.04	To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2014 & Autonomous 2018) of the Undergraduate and Post graduate programs conducted under the Board
23.05	To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2014 & Autonomous 2018 Schemes of Undergraduate and Post graduate programs conducted under the Board.
23.06	To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate and Postgraduate Programs.
23.07	To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under-Graduate and Post Graduate programs.
23.08	To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board.
23.09	To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.
23.10	To prepare and propose the panel of paper setters, Moderators and Valuers for the



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## Department of Electronics & Telecommunication Engineering

	various theory courses at Undergraduate programs that will be examined in End Semester Examination of Even Term 2020-21
23.11	To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Even Term 2020-21
23.12	To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination Even Term 2020-21
23.13	Updation/Preparation of Electronic question Bank upto VI Sem UG courses To review solutions to all questions of Electronic Question Banks for all courses upto IV SEM (SoE 2018)
23.14	Updation/Preparation of subject Note Book for UG Courses. To consolidate the number of subject wise Note Books prepare as per SoE and plan for preparing Note Books for remaining subjects. Also to review the updation already prepared Note Books.
23.15	Any other matter with the permission of the Chair.

Kindly make it convenient to attend the meeting.

*M. Dorle*

**Dr. M.S. Dorle**  
Member Secretary  
BoS in E & T Engineering

*Dr. M.S. Narlawar*

**Dr. M.S. Narlawar**  
Chairman  
BoS in E & T Engineering



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## Department of Electronics & Telecommunication Engineering

YCCE/ET/FORMAT/BOS/MOM/23

### Minutes of the 23<sup>rd</sup> BOS Meeting

Date: 30<sup>th</sup> January 2021

The 23<sup>rd</sup> meeting of the Board of Studies in Electronics & Telecommunication Engineering was held on Saturday, 30<sup>th</sup> January 2021 at 11:00 am through online mode (Google meet)

The meeting was attended by the following members of BOS.

Sr. No.	Name	Signature
01	Dr. K.D.Kulat, VNIT, Nagpur (VC Nominee)	Present
02	Dr. A.S. Gandhi, VNIT, Nagpur	Present
03	Dr.A.G.Keskar, VNIT, Nagpur	Present
04	Mr. Sâtish Awari, Director, Samartha Electro Care Pvt.Ltd.,Nagpur	Present
05	Mr.Anirudhha Kalbande, Director Fireblaze Technologies Pvt.Ltd.Nagpur	Present

Leave of absence was granted to –

Sr. No.	Name
1.	Dr.S.S.Khade ET, YCCE
2.	Dr.P.D.Dorge ET, YCCE
3.	Dr.V.D.Bondre ET, YCCE
4.	Prof. R.P. Kamdi ET, YCCE
5.	Prof. A.A. Madanker ET, YCCE





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## Department of Electronics & Telecommunication Engineering

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

ITEM NO.	AGENDA POINT
23.01	Welcome of new members. ----
23.02	Installation of member Secretary. -----
23.03	<b>Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.</b>  The minutes of the 22 <sup>nd</sup> BOS meeting held on, 6 <sup>th</sup> June 2020 in Electronics and Telecommunication Engineering Department were placed on the table and were confirmed unanimously.
23.04	<b>To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2014 &amp; Autonomous 2018) of the Undergraduate and Post graduate programs conducted under the Board</b>  No Changes have been proposed.
23.05	<b>To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2014 &amp; Autonomous 2018 Schemes of Undergraduate and Post graduate programs conducted under the Board.</b>  Minor Changes have been suggested by experts and were incorporated in UG syllabus for following Course <b>ET 2323/ET 2393- OE II/ OE IV: MEDICAL ELECTRONICS</b> Minor changes in syllabus were done and approved Changes in syllabus is 10%  Unit 1: Deleted topics ECG, EEG, Skeletal, Muscle and Skin Systems, EMG, and added topics were Introduction of man instrumentation system, Components of man instrumentation system, Physiological system of the body. Unit 2: Characteristics of blood flow added.  Minor Changes have been suggested by experts in the syllabus and were incorporated in Honor in Automation and Computer Vision course. <b>ET 2501: Industrial Automation and Robotics</b>



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## Department of Electronics & Telecommunication Engineering

	<p>Changes in syllabus is below 20%</p> <p>Unit 5: Deleted topics Basic control system concepts - control system analysis - robot actuation and fed back, added topics were Types of Robot and effectors - Grippers - Tools as end effectors - Robot/End - effort interface. Range sensing - Proximity sensing - Touch sensing - Force and Torque sensing.</p> <p>Unit 6: Deleted topics Artificial intelligence - Knowledge representation - Search techniques - AI and Robotics. And added topics were Types of Robot and effectors - Grippers - Tools as end effectors - Robot/End - effort interface.</p> <p>Range sensing - Proximity sensing - Touch sensing - Force and Torque sensing.</p>
23.06	<p><b>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.</b></p> <p>No changes have been suggested</p>
23.07	<p><b>To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under-Graduate and Post Graduate programs.</b></p> <p>No changes have been suggested</p>
23.08	<p><b>To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board.</b></p> <p>No changes have been suggested.</p>
23.09	<p><b>To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.</b></p> <p>-----</p>
23.10	<p><b>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 2020-21</b></p> <p>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 2020-21 have been prepared and finalized under YA11 of YCCE.</p>
23.11	<p><b>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 2020-21</b></p> <p>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 2020-21 have been prepared and finalized under YA11 format of YCCE.</p>
23.12	<p><b>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</b></p>



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## Department of Electronics & Telecommunication Engineering

	<p><b>examined in End Semester Examination Even Term 2020-21</b></p> <p>The panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination Even Term 2020-21 have been prepared and finalized under YA12 format of YCCE.</p>
23.13	<p><b>Updation/Preparation of Electronic question Bank upto VI Sem UG courses To review solutions to all questions of Electronic Question Banks for all courses upto IV SEM (SoE 2018)</b></p> <p>Electronic question bank upto VI Sem UG courses are prepared/ updated. All questions of Electronic Question Banks for all courses of IV SEM are reviewed.</p>
23.14	<p><b>Updation/Preparation of subject Note Book for UG Courses. To consolidate the number of subject wise Note Books prepare as per SoE and plan for preparing Note Books for remaining subjects. Also to review the updation already prepared Note Books.</b></p> <p>Note Book for UG course till Odd semester are prepared/ updated. Preparation of Note Books for Even semester UG courses is in process.</p>
23.15	<p><b>Any other matter with the permission of the Chair.</b></p> <p>Following Certification courses were proposed and approved by experts.</p> <ul style="list-style-type: none"><li>➤ Image processing and Computer Vision Applications of duration 30 Hrs</li><li>➤ Advances in Embedded system and IoT of duration 30 Hrs</li><li>➤ Implementation of CMOS VLSI and DSD of duration 30 Hrs</li></ul> <p>Chairman was authorized to finalize the SOE</p>

**The meeting concluded with thanks to the Experts.**

**Dr. M.S. Dorle**  
Member Secretary  
BoS in E & T Engineering

**Dr. M.S. Narlawar**  
Chairman  
BoS in E & T Engineering



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## Department of Computer Technology

### Board of Studies in Computer Technology Minutes of the Meeting No. 25

Date: 30<sup>th</sup> Jan. 2021

Meeting no. 25<sup>th</sup> of the Board of Studies in Computer Technology department was held on 30<sup>th</sup> Jan. 2021 at 11 am. in online mode and offline mode.

The meeting was attended by the following members of BoS.

#### External Members

Sr. No.	Name of Honorable External Member	Position held in BoS
1	Dr. U. A. Deshpande	External Expert
2	Mr. Ajit Dharmik	Industry Expert
3	Mr. Chetan Pohane (Special Invitee)	Alumni and Industry Expert, USA

#### BoS Members

Sr. No.	Name of Member	Sr. No.	Name of Member
1.	Dr. Gauri Dhopavkar	2.	Dr. M. M. Kshirsagar
3.	Mr. T. R. Ravi	4.	Dr. K. R. Singh
5.	Dr. A. R. Patil Bhagat	6.	Dr. S. D. Kamble
7.	Mr. N.U. Sambhe	8.	Dr. R. D. Wajgi
9.	Mr. P.V. Barekar	10.	Dr. S. J. Karale
11.	Mrs. S. R. Kapse	12.	Mrs. R. S. Khedgoankar
13.	Mrs. S. S. Thombre	14.	Mrs. P. Deshkar
15.	Mr. S. Pande	16.	Mr. Ganesh Yenukar

Leave of Absence was granted to following members:

Sr. No.	Name of Member
1.	Dr. Narendra Bawane, VC Nominee, RTM Nagpur University
2.	Mr. Vaibhav Deshpande, Alumnus Representative
3.	Mr. N.S. Mangrulkar
4.	Mrs. N. M. Jichkar
5.	Dr. L. B. Damahe
6.	Mrs. G.A Chaudhary
7.	Mr. G. Vaidya
8.	Mr. R. S. Bhanuse

Received  
# 12/3/21



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## Department of Computer Technology

The following agenda points were deliberated in the meeting

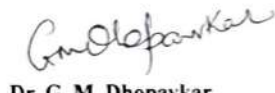
25.01	Welcome of new members <b>No Change</b>
25.02	Installation of member Secretary <b>No Change</b>
25.03	To confirm the minutes of 24 <sup>th</sup> Meeting of BoS. <b>The minutes of the 24<sup>th</sup> Meeting of BoS in Computer Technology held on 5<sup>th</sup> June 2020 were placed on the table by Chairperson Dr. G. M. Dhopavkar were confirmed unanimously.</b>
25.04	To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2014 and Autonomous 2018) of the Undergraduate and Post graduate programs conducted under the Board <b>SoE 2018: Suggested to include new Course Code and Course Name to CT 2301 Computer Network and CT 2302 Lab: Computer Network (5<sup>th</sup> Semester) due to major changes in the syllabus. New Course code and Name for theory: CT 2304 Computer Network Fundamentals New Course code and Name for practical: CT 2305 Lab: Computer Network Fundamentals SoE 2014: No Change</b>
25.05	To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2014 Schemes of Undergraduate and Post graduate programs conducted under the Board. <b>Minor changes in the syllabi of Autonomous 2018 scheme are proposed. Details are as follows: 1. Minor change in the syllabi of 3<sup>rd</sup> Semester CT 2202 Object Oriented Programming is proposed Major changes in the syllabi of Autonomous 2018 scheme are proposed. Details are as follows: 1. Major changes in the syllabi of 5<sup>th</sup> Semester CT 2301 Computer Networks are proposed with new course code and course name. New Course code and Name for theory: CT 2304 Computer Network Fundamentals New Course code and Name for practical: CT 2305 Lab: Computer Network Fundamentals</b>
25.06	To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate and Postgraduate Programs. <b>No Change</b>
25.07	To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Undergraduate and Post Graduate programs. (Comment: The laboratory courses may be described in greater details for easy understanding by students.) <b>Discussed the changes in the laboratory courses. Approval received from BoS.</b>
25.08	To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board. <b>No Change</b>
25.9	To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum. <b>No Change</b>
25.10	To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of EVEN Term 2020-21. <b>The panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs for End Semester Examination of EVEN Term 2020-21 was constituted.</b>
25.11	To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of EVEN Term 2020-21. (Comment: Question papers of all the courses of PG programs are set and evaluated by the course instructors from EVEN Term 2020-21. The grades of the students will also be decided by the Course Instructors.) <b>The panel of paper setters, Moderators and Valuers for the various theory courses at Postgraduate programs for End Semester Examination of EVEN Term 2020-21 was constituted.</b>

**Department of Computer Technology**

25.12	To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination EVEN Term 2020-21. <b>The panel of internal and external examiners for the various laboratory courses at UG and PG levels for End Semester Examination of EVEN Term 2020-21 was constituted.</b>
25.13	Updation/Preparation of Electronic question Bank upto VI Sem UG courses To review solutions to all questions of Electronic Question Banks for all courses upto IV SEM (SoE 2018) <b>Preparation/updates of Electronic question Bank for VI Semester UG courses is in Progress.</b> To review solutions to all questions of Electronic Question Bank for all courses of VI semester. (In Progress)
25.14	Updation/Preparation of subject Note Book for UG Courses. To consolidate the number of subject wise Note Books prepare as per SoE and plan for preparing Note Books for remaining subjects. Also to review the updation already prepared Note Books. <b>Odd Term Note Book for UG Courses is prepared and Even Term Note Book for UG Courses is in process.</b>
25.15	Any other matter with the permission of the Chair <b>Formal Thanks to External Experts on behalf of the BoS Chairman, BoS Members and member secretary.</b>

The meeting concluded by vote of thanks by chairperson, BoS of Computer Technology

  
**Dr. Sharesh D. Kamble**  
Member Secretary  
BoS Computer Technology

  
**Dr. G. M. Dhopavkar**  
Chairperson  
BoS Computer Technology



# Yeshwantrao Chavan College of Engineering

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

Nagar Yuwak Shikshan Sanstha's



# Yeshwantrao Chavan College of Engineering

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## Department of Computer Technology

### Boards of Studies in Computer Technology Minutes of the Emergent Meeting No. 26

Date: 5<sup>th</sup> Mar. 2021

Emergent meeting no. 26<sup>th</sup> of the Board of Studies in Computer Technology department was held on 5<sup>th</sup> Mar. 2021 at 3.30 pm. in online mode.

The meeting was attended by the following members of BoS.

#### External Members

Sr. No.	Name of Honorable External Member	Position held in BoS
1	Dr. U. A. Deshpande	External Expert

#### BoS Members

Sr. No.	Name of Member	Sr. No.	Name of Member
1.	Dr. Gauri Dhopavkar	2.	Dr. S. D. Kamble
3.	Dr. R. D. Wajgi	4.	Dr. K. R. Singh
5.	Mr. N.U. Sambhe	6.	Dr. L.B. Damahe
7.	Mr. P.V. Barekar	8.	Mrs. R. S. Khedgoankar
9.	Mrs. S. R. Kapse	10.	Mrs. P. Deshkar
11.	Mrs. S. S. Thombre	12.	Mr. Ganesh Yenurkar
13.	Mr. S. Pande	14.	G. Vaidya
15.	R. S. Bhanuse		

Leave of Absence was granted to following members:

Sr. No.	Name of Member
1.	Dr. Narendra Bawane, VC Nominee, RTM Nagpur University
2.	Mr. Ajit Dharmik, Industry Expert
3.	Mr. Vaibhav Deshpande, Alumni
4.	Dr. M. M. Kshirsagar
5.	Mrs. N. M. Jichkar
6.	Mrs. G.A Chaudhary
7.	Mr. T. R. Ravi
8.	Dr. A. R. Patil Bhagat
9.	Dr. S. J. Karale

Received  
12/3/21



Nagar Yuwak Shikshan Sanstha's

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## Department of Computer Technology

The following agenda points were deliberated in the meeting

	To discuss and approve the TCS initiated Computer Science and Business System (CSBS) Program.
26.01	<b>Suggested to include TCS initiated CSBS Course Curriculum for Version 3: 160 Credits Scheme of Examination (SoE) and Syllabus.</b>
	To discuss and approve the content of certificate courses
26.02	<b>Discussed Applications of AI-ML and DS (Duration: 30 hrs.) and Cyber Forensic (Duration: 30 hrs.) certificate courses and the content of the certificate courses are submitted to experts for suggestions/approval.</b>
	To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2018 SoE) of Undergraduate conducted under the Board
26.03	<b>Suggested to include CT2415 PE-III: Remote Sensing and digital image processing of satellite data and CT 2440 PE-V: Bioinformatics as a Research organization align electives in VII semester.</b>
	To discuss and propose scheme for Honor course.
	<b>Proposed additional schemes for Honor course was discussed</b>
26.04	<ol style="list-style-type: none"><li>1. Full Stack Web Development (Some of the courses are taught by industry experts from TCS, Infosys, smarttalk, Nagpur)</li><li>2. Business and Statistical Data Analytics (NPTL Course- NPTL Certificate with valid score)</li></ol>
	Any other matter with the permission of the Chair
26.05	<b>Formal Thanks to Eternal Experts on behalf of the BoS Chairman, BoS Members and member secretary.</b>

The meeting concluded by vote of thanks by chairperson, BoS of Computer Technology

Dr. Shailesh D. Kamble  
Member Secretary  
BoS Computer Technology

Dr. G. M. Dhopavkar  
Chairperson  
BoS Computer Technology



## Department of Computer Technology

## Boards of Studies in Computer Technology

## Curriculum Development Workshop

Minutes of the Meeting No. 9Date: 20<sup>th</sup> April 2021

Curriculum Development Workshop Meeting no. 9<sup>th</sup> of the Board of Studies in Computer Technology was held on 20<sup>th</sup> April 2021 at 02.00 P.M. in virtual mode.

The meeting was attended by the following members of BoS.

S. N.	Name of Honorable External Member	Position held in BoS
1.	Dr. O. G. Kakde	External Expert
2.	Dr. R. B. Keskar	External Expert
3.	Dr. U.A. Deshpande	BoS Member

S. N.	Name of Internal BoS Member	Position held in BoS	S. N.	Name of Internal BoS Member	Position held in BoS
1	G. M. Dhopavkar	Chairperson	11	R. S. Khedgaonkar	Member
2	S. D. Kamble	Member Secretary	12	N. U. Sambhe	Member
3	M. M. Kshirsagar	Member	13	S. Thombre	Member
4	K.R. Singh	Member	14	N. S. Mangrulkar	Member
5	T.R. Ravi	Member	15	P.V. Burekar	Member
6	L. B. Damahe	Member	16	G. Yenukar	Member
7	R. Wajgi	Member	17	R. Bhanuse	Member
8	S.Kapse	Member	18	S. Pande	Member
9	N. Jichkar	Member	19	G. Vaidya	Member
10	P.A. Deshkar	Member			

Leave of absence was granted to following members:

S. N.	Name of Honorable External Member	Position held in BoS
1.	A.R.BhagatPatil	Member
2.	S.J.Karale	Member
3.	G. Choudhari	Member



## Department of Computer Technology

The following agenda points were deliberated in the meeting:

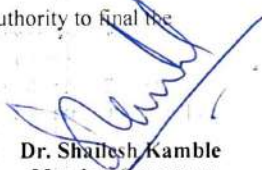
09.01	<p>Approval for updation in semester Scheme of Examination (Scheme 2018) of the Undergraduate Program conducted under the Board for VII and VIII semesters ( Due to Semester-long Internship)</p> <p><b>Scheme of Examination (Scheme 2018) of the Undergraduate Program conducted under the Board for VII and VIII semesters is approved with the following suggestions:</b></p> <ul style="list-style-type: none"><li>• <b>Instead of offering CRT (Campus Recruitment Training) CT2410 in VII semester: To be offered in Summer Term and 1 credit of Extra/Co Curricular Activity (of 8<sup>th</sup> semester) Evaluation (CT2452) is to be added with it.</b></li><li>• <b>Approved to include CT2440 - PE V: Bioinformatics research organization aligned professional electives in 7<sup>th</sup> semester.</b></li><li>• <b>Suggested Remote Sensing and Digital Image Processing of Satellite Data research organization aligned professional elective to offer in higher level (PG) if required.</b></li></ul>
09.02	<p>To discuss and suggest the changes in the proposed syllabi of courses offered in 7<sup>th</sup> and 8<sup>th</sup> semester (scheme 2018) of the Under graduate programs conducted under the Board.</p> <p><b>Changes in syllabi of following undergraduate courses in 2018 Scheme were suggested by experts:</b></p> <p>CT2401 - Artificial Intelligence CT2403 - Network Security CT2411 - PEIII: Neural Network and Fuzzy Logic CT2425 - PEIV: Machine Learning CT2437- PEV: Data Mining</p>
09.03	<p>To discuss and suggest the changes in the proposed syllabi of all HONOR-MINOR courses (Department based and Industry based) conducted under the Board.</p> <p><b>Industry based Honors course: Full Stack Web Development: SoE was approved with following suggestions:</b></p> <p><b>The exam pattern should not be question answer type as this course is totally industry oriented and does not fit for qu.-ans pattern.</b></p> <p><b>It was suggested to keep flexibility of evaluation (through practical assignment, mini project etc) Syllabi and SoE of existing minor course is approved.</b></p>
09.04	<p>To discuss and suggest the changes in the proposed syllabi of all HONOR-MINOR courses (SWAYAM /NPTEL based) conducted under the Board.</p> <p><b>Discussed and Approved the syllabi of HONORs course (SWAYAM / NPTEL based ) proposed under the Board.</b></p>
09.05	<p>Finalization of the Scheme of Examination and Syllabi of BE (CSE) 3<sup>rd</sup> and 4<sup>th</sup> Semester: new program. ( in presence of committee comprised of members from CT- IT department)</p> <p><b>Discussed and Approved the Scheme of Examination and Syllabi of BE (CSE) 3<sup>rd</sup> and 4<sup>th</sup> Semester with some Suggestions:</b></p> <ul style="list-style-type: none"><li>• <b>CT2410 - CRT offered in Summer Term</b></li><li>• <b>GE2312 - Fundamentals of Economics shifted to 4<sup>th</sup> Semester</b></li><li>• <b>CSE2257 - Database Management Systems shifted to 5<sup>th</sup> Semester</b></li><li>• <b>CSE2351 - Computer Networks shifted to 6<sup>th</sup> Semester</b></li><li>• <b>CSE2301- Design &amp; Analysis of Algorithms shifted to 5<sup>th</sup> Semester</b></li></ul>

**Department of Computer Technology**

09.06	<p>Finalization of the Scheme of Examination of following newly proposed and applied programs to be initiated from session 2021-22 (in presence of committee comprised of members from CT- IT department) :</p> <ul style="list-style-type: none"><li>i) CSE (Data Science)</li><li>ii) CSE (AI-ML)</li><li>iii) CSE (IoT &amp; Cyber Security including Block Chain Technology)</li><li>iv) Computer Science &amp; Business Systems (CSBS)</li></ul> <ul style="list-style-type: none"><li>• Suggested to implement all specialized courses from first year like CSBS.</li><li>• Experts suggested that till second year, all SoEs of proposed new programs might be same and from third year onwards specialized courses can be designed.</li></ul> <p>Discussed and Approved the Scheme of Examination and Syllabi of BE (CSE) 3rd and 4th Semester with some Suggestions:</p> <ul style="list-style-type: none"><li>• Operating System Course should be offered before Data Base Management System.</li><li>• Artificial Intelligence Course should be offered after Design Analysis of algorithm.</li><li>• Fundamentals of Economics shifted to 4th Semester for the CSE (AI-ML) and CSE (DS)</li><li>• If some core courses are not important then directly replace it with the corresponding specialized courses</li></ul>
09.07	<p>Any other matter with the permission of the Chair</p> <p>Suggestions given by experts:</p> <ul style="list-style-type: none"><li>• Flexibility should be given in paper setting. (It should not be unit based)</li><li>• Book Editions should not be kept in text/reference book column of every syllabus.</li><li>• Practical based Assignments should be given if there is no practical included in the courses.</li><li>• Web link should be removed from the reference books if not active.</li></ul>

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

**Dr. Gauri Dhopavkar**  
Chairperson  
BoS in Computer Technology

  
**Dr. Shailesh Kamble**  
Member Secretary  
BoS in Computer Technology

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## Department of Information Technology

### Board of Studies in Information Technology

#### Agenda for meeting No. 25

Date: 28-May-2020

To,

All the Faculty Members. IT Deptt.

Dear All,

The 25<sup>th</sup> meeting of the Board of Studies in **Information Technology** via **on online platform** is scheduled on **6<sup>th</sup> June, 2020 at 10:00 am.**

The agenda for the meeting shall be as follows:

- 25.1 Welcome of new members
- 25.2 Installation of member Secretary
- 25.3 Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.
- 25.4 To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2014 & Autonomous 2018) of the Undergraduate and Post graduate programs conducted under the Board.
- 25.5 To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2014 & Autonomous 2018 Schemes of Undergraduate program conducted under the Board.
- 25.6 To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate Program.
- 25.7 To discuss and propose the list of experiments, wherever there is a change. in the laboratory courses of Under-Graduate programs.
- 25.8 To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board.
- 25.9 To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.

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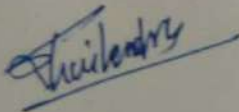
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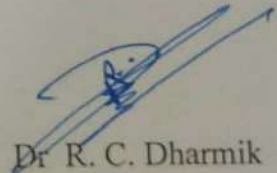
## Department of Information Technology

- 25.10 To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate program that will be examined in End Semester Examination of Odd Term 2020-21.
- 25.11 To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Odd Term 2020-21
- 25.12 To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG levels that will be examined in End Semester Examination Odd Term 2020-21.
- 25.13 Preparation of Electronic question Bank for VII and VIII Sem UG courses according to SoE 2018. To review solutions to all questions of Electronic Question Banks for all courses of V SEM.
- 25.14 To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses.
- 25.15 To discuss and propose scheme for Minor an Honor course and its syllabus.
- 25.16 To discuss the inclusion of NPTEL/SWAYAM online course in each semester.
- 25.17 Any other matter with the permission of the Chair.

Kindly make it convenient to attend the meeting.



Mr. S.W. Shende  
Member Secretary  
Board of Studies in  
Information Technology



Dr. R. C. Dharmik  
Chairman  
Board of Studies in  
Information Technology



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## Department of Information Technology Board of Studies in Information Technology

### Minutes of the Meeting No. 25

The 25<sup>th</sup> meeting of the Board of Studies in **Information Technology** was held on 06/06/2020 (Saturday) at 10:00 a.m. in online mode on Webex Platform. The following BoS Members attended the meeting.

Sr. No.	Name
1.	Dr R.C. Dharmik, Chairperson
2.	Dr S. R. Sathe , Prof. CSE VNIT Nagpur
3.	Dr U. A. Deshpande Prof. & Head CSE VNIT Nagpur
4.	Dr D. S. Adane, Head IT RCOEM Nagpur
5.	Mr. Abhishek Nachankar, Member PG Alumni
6.	Mr. S. W. Shende, Member Secretary
7.	Dr K. K. Bhoyar
8.	Dr U. H. Gawande
9.	Mrs. R. A. Fadnavis
10.	Mrs. Swati G. Kale
11.	Ms. N. R. Wankhade
12.	Mr. Manish Hadap
13.	Mr. Bhushan Bawankar
14.	Mr. A. D. Gaikwad
15.	Ms. P. G. Jaiswal
16.	Mr. S. S. Chavhan
17.	Mrs. S. Gugulothu

**Leave of Absence is granted to the following Members:**

1	Mr. Parikshit Umare, YouBotics Pvt. Ltd. Nagpur
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## Department of Information Technology Board of Studies in Information Technology

The agenda for the meeting was as follows:

- 25.1 Welcome of new members
- 25.2 Installation of member Secretary
- 25.3 Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.
- 25.4 To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2014 & Autonomous 2018) of the Undergraduate and Post graduate programs conducted under the Board.
- 25.5 To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2014 & Autonomous 2018 Schemes of Undergraduate program conducted under the Board.
- 25.6 To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate Program.
- 25.7 To discuss and propose the list of experiments, wherever there is a change, in the laboratory courses of Under-Graduate programs.
- 25.8 To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board.
- 25.9 To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum. To discuss the inclusion of NPTEL/SWAYAM online course in each semester.
- 25.10 To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate program that will be examined in End Semester Examination of Odd Term 2020-21.
- 25.11 To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Odd Term 2020-21
- 25.12 To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG levels that will be examined in End Semester Examination Odd Term 2020-21.



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## Department of Information Technology Board of Studies in Information Technology

- 25.13 Preparation of Electronic question Bank for VII and VIII Sem UG courses according to SoE 2018. To review solutions to all questions of Electronic Question Banks for all courses of V SEM.
- 25.14 To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses.
- 25.15 To discuss and propose scheme for Minor an Honor course and its syllabus.
- 25.16 Any other matter with the permission of the Chair.

### Following decisions/suggestions are approved in the BoS Meeting:

25.1	Welcome of new Members.	The Chairman of the BoS, Dr. R, C. Dharmik welcomed the members of the Board of Studies in IT.
25.2	Installation of member Secretary	NIL
25.3	Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.	The Board of Studies in IT unanimously approved the minutes of 24 <sup>th</sup> meeting of Board of Studies in IT held on 11/01/2020 and Action Taken Report thereof.
25.4	To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2014 & Autonomous 2018 ) of the Undergraduate program conducted under the Board.	SOE 2014:For Final Year & SOE 2018: Second and Third Year (Academic session 2020-2021):- <ul style="list-style-type: none"><li>All Theory courses will be run in Internal-60; External-40 weightage of Marks. Internal 60 marks will be distributed in the following manner: 3 MSE's = 30 Marks TA = 10 Marks Live class quizzes= 20 Marks (minimum 20 Quizzes) ESE = 40 Marks</li><li>All Practical courses will be run in Internal-60; External-40 weightage of Marks. Internal 60 marks will be distributed in the following manner: MSPA(1,2,3,4) carry's the weightage of 15 marks each. = Total 60 marks</li></ul>





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## Department of Information Technology

### Board of Studies in Information Technology

		ESE = 40 Marks										
		<p>The title of both the SoE is renamed as:</p> <ol style="list-style-type: none"> <li>1. Scheme of Examination 2014-15-Revised 2020-21-IT</li> <li>2. Scheme of Examination 2018-19-Revised 2020-21-IT</li> </ol> <p>(Annex. I &amp;II)</p>										
25.5	To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2014 & Autonomous 2018 Schemes of Undergraduate program conducted under the Board.	<p>Syllabus of following courses were modified (Annex III)</p> <table border="1"> <thead> <tr> <th>Sem</th> <th>Course</th> </tr> </thead> <tbody> <tr> <td>III (SoE 2018)</td> <td>IT2207- Computer Architecture &amp; Organization</td> </tr> <tr> <td>V (SoE 2018)</td> <td>IT2303- Software Engineering</td> </tr> <tr> <td>VII (SoE 2014)</td> <td>IT1422- Network Security</td> </tr> <tr> <td>V (SoE 2018)</td> <td>IT2311- PE I: Web Programming</td> </tr> </tbody> </table>	Sem	Course	III (SoE 2018)	IT2207- Computer Architecture & Organization	V (SoE 2018)	IT2303- Software Engineering	VII (SoE 2014)	IT1422- Network Security	V (SoE 2018)	IT2311- PE I: Web Programming
Sem	Course											
III (SoE 2018)	IT2207- Computer Architecture & Organization											
V (SoE 2018)	IT2303- Software Engineering											
VII (SoE 2014)	IT1422- Network Security											
V (SoE 2018)	IT2311- PE I: Web Programming											
25.6	Changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate and Postgraduate Programs.	Nil										
25.7	To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of UG program.	No change										
25.8	Changes in the Academic Regulations governing the UG & PG Programme	None										
25.9	To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.	<p>Following course were considered for the inclusion of NPTEL-GURU/SWAYAM online course in odd term 2020-21.</p> <table border="1"> <thead> <tr> <th>Sem</th> <th>Course</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table>	Sem	Course								
Sem	Course											



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## Department of Information Technology Board of Studies in Information Technology

(Annex-IV)

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING  
Department of Information Technology  
B.E. INFORMATION TECHNOLOGY  
Status of E question bank and Model Answer set/ Solution set

Sr. No.	semester	Course Code	Course name	Q Bank READY (Yes/No)	SAMPLE Model Answers READY (Yes/No)
<b>5<sup>TH</sup> SEMESTER</b>					
1	5	IT1303	Operating Systems	yes	yes
2	5	IT1305	Software Engineering	yes	yes
3	5	IT1316	Data Base Management Systems	yes	yes
4	5PE (1)	IT1307	Computer Graphics	yes	yes
5	5PE (1)	IT1328	Data Analysis & Statistics	yes	yes
6	5OE (1)	IT1322	Web Technology	yes	yes
7	5OE (1)	IT1325	Object oriented programming (Java)	yes	yes
<b>7<sup>TH</sup>/ 8<sup>TH</sup> SEMSTER</b>					
8	7	IT1417	Network Programming	yes	
9	7	IT1427	Data Mining	yes	
10	7	IT1422	Network Security	yes	
11	7PE (3)	IT1407	Real Time Systems	yes	
12	7PE(3)	IT1432	Cloud Computing	yes	
13	7PE (4)	IT1415	Neural Networks & Fuzzy Logic	yes	
14	7PE(4)	IT1421	Distributed Systems	yes	
15	7	IT1403	Principle of Compiler Design	yes	

25.14	To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses.	<ul style="list-style-type: none"> <li>All Theory &amp; Practical courses will be run in Internal-60: External-40 weightage of Marks.</li> <li>ESE weightage will be distributed unit- wise with following marks (6,6,7,7,7,7)[Teachers will decide the distribution]</li> </ul>
25.15	To discuss and propose scheme for Minor an Honor course and its syllabus.	<p>Proposed the following scheme</p> <ul style="list-style-type: none"> <li>B.E. Honors in Data Sciences and Machine Learning</li> <li>B.E. Minors in Cloud Computing and Big Data Analytics</li> </ul>



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## Department of Information Technology Board of Studies in Information Technology

		Experts suggest due to Kovid-19 Pandemic defer both the programs by one year and run this program in online self-learning mode through equivalent SWAYAM/NPTEL Course. (Annex-V)
25.16	Any other matter	Nil

The SOE for 2018-22 scheme was discussed at length and the chairman is authorized to finalize the SOE.

The meeting concluded with thanks to the Chair.

Sr. No.	Name of Expert Member	Designation	Signature
1	Dr. S. R. Sathe	Professor CSE, VNIT Nagpur.	
2	Dr. U. A. Deshpande	Professor & Head CSE, VNIT Nagpur	
3	Dr. D. S. Adane	Professor & Head IT, RCOEM Nagpur	
4	Mr Abhishek Nachankar	Asst. Prof. CT Deptt., KDK, Nagpur (Alumni Member)	

**Mr. Shailendra W. Shende**  
Member Secretary  
BoS in Information Technology

**Assistant Professor**  
Dept. of Information Tech  
YCCEE, NAGPUR - 441110

**Dr. R. C. Dharmik**  
Chairman  
BoS in Information Technology

**Head, Deptt. of Information Tech.,  
YCCE, Nagpur - 441110**

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## Department of Information Technology BOARD OF STUDIES IN INFORMATION TECHNOLOGY

Date: 22-01-2021

### Agenda for meeting No. 26

To,

All the Members of Board of Studies in  
Information Technology

Dear Sir/Madam,

The 26<sup>th</sup> meeting of the Board of Studies in Information Technology via on online platform is scheduled on 30<sup>th</sup> Jan, 2021 at 12:30 pm.

The agenda for the meeting shall be as follows:

- 26.1 Welcome of new members
- 26.2 Installation of member Secretary
- 26.3 Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.
- 26.4 To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2014 & Autonomous 2018) of the Undergraduate and Post graduate programs conducted under the Board.
- 26.5 To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2014 & Autonomous 2018 Schemes of Undergraduate program conducted under the Board.
- 26.6 To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate Program.
- 26.7 To discuss and propose the list of experiments, wherever there is a change, in the laboratory courses of Under-Graduate programs.
- 26.8 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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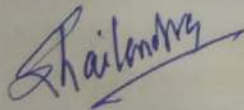
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## Department of Information Technology BOARD OF STUDIES IN INFORMATION TECHNOLOGY

- 26.9 To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.
- 26.10 To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate program that will be examined in End Semester Examination of Even Term 2020-21.
- 26.11 To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Even Term 2020-21.
- 26.12 To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG levels that will be examined in End Semester Examination Even Term 2020-21.
- 26.13 Updation/Preparation of Electronic question Bank upto VI Sem UG courses  
To review solutions to all questions of Electronic Question Banks for all courses upto IV SEM (SoE 2018).
- 26.14 Updation/Preparation of subject Note Book for UG Courses.  
To consolidate the number of subject wise Note Books prepare as per SoE and plan for preparing Note Books for remaining subjects. Also to review the updation already prepared Note Books.
- 26.15 Any other matter with the permission of the Chair.

Kindly make it convenient to attend the meeting.



Mr. S.W. Shende

Member Secretary

Board of Studies in

Information Technology

Assistant Professor

Dept. of Information Tech

YCCEE, NAGPUR - 441110



Dr. R. C. Dharmik

Chairman

Board of Studies in

Information Technology

Head, Deptt. of Information Tech.,  
YCCE, Nagpur - 441110

Action Taken Report

Sr.No.	Agenda point	Suggestions/ Discussion	Action								
25.4	<p>To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2014 &amp; Autonomous 2018 ) of the Undergraduate program conducted under the Board.</p>	<p><b>SOE 2014:For Final Year &amp; SOE 2018: Second and Third Year (Academic session 2020-2021):-</b></p> <ul style="list-style-type: none"> <li>All Theory courses will be run in Internal-60: External-40 weightage of Marks. Internal 60 marks will be distributed in the following manner:</li> </ul> <p>3 MSE's = 30 Marks</p> <p>TA = 10 Marks</p> <p>Live class quizzes= 20 Marks (minimum 20 Quizzes)</p> <p>ESE = 40 Marks <li>All Practical courses will be run in Internal-60: External-40 weightage of Marks.</li> <p>Internal 60 marks will be distributed in the following manner:</p> <p>MSPA(1,2,3,4) carry's the weightage of 15 marks each. = Total 60 marks</p> <p>ESE = 40 Marks</p> </p>	<p>Implemented</p> <p>The title of both the SoE is renamed as:</p> <ol style="list-style-type: none"> <li>Scheme of Examination 2014-15-Revised 2020-21-IT</li> <li>Scheme of Examination 2018-19-Revised 2020-21-IT</li> </ol>								
25.5	<p>To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2014 &amp; Autonomous 2018 Schemes of Undergraduate program conducted under the Board.</p>	<p>Syllabus of following courses were modified (Annex III)</p> <table border="1" data-bbox="646 1615 1133 2033"> <thead> <tr> <th>Sem</th> <th>Course</th> </tr> </thead> <tbody> <tr> <td>III (SoE 2018)</td> <td>IT2207- Computer Architecture &amp; Organization</td> </tr> <tr> <td>V (SoE 2018)</td> <td>IT2303- Software Engineering</td> </tr> <tr> <td>V (SoE 2018)</td> <td>IT2311- PE I: Web Programming</td> </tr> </tbody> </table>	Sem	Course	III (SoE 2018)	IT2207- Computer Architecture & Organization	V (SoE 2018)	IT2303- Software Engineering	V (SoE 2018)	IT2311- PE I: Web Programming	<p>Done</p>
Sem	Course										
III (SoE 2018)	IT2207- Computer Architecture & Organization										
V (SoE 2018)	IT2303- Software Engineering										
V (SoE 2018)	IT2311- PE I: Web Programming										

Action Taken Report

		VII (SoE 2014)	IT1422- Network Security									
25.9	To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.	<p>Following course were considered for the inclusion of NPTEL-GURU/SWAYAM online course in odd term 2020-21.</p> <table border="1"> <thead> <tr> <th>Sem</th> <th>Course</th> </tr> </thead> <tbody> <tr> <td>III</td> <td>IT2207- Computer Architecture &amp; Organization</td> </tr> <tr> <td>V</td> <td>IT2303- Software Engineering</td> </tr> <tr> <td>VII</td> <td>IT1422- Network Security</td> </tr> </tbody> </table> <p>(Annex -III)</p>		Sem	Course	III	IT2207- Computer Architecture & Organization	V	IT2303- Software Engineering	VII	IT1422- Network Security	Implemented
Sem	Course											
III	IT2207- Computer Architecture & Organization											
V	IT2303- Software Engineering											
VII	IT1422- Network Security											



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## Department of Information Technology Board of Studies in Information Technology

### Minutes of the Meeting No. 26

The 26<sup>th</sup> meeting of the Board of Studies in **Information Technology** was held on 30/01/2021 (Saturday) at 12:30 p.m. in online mode on Google Meet Platform (Meeting ID meet.google.com/mik-dtqt-aho ). The following BoS Members attended the meeting.

Sr. No.	Name
1.	Mr R. C. Dharmik , Chairman
2.	Dr. S. R. Sathe Prof. CSE VNIT Nagpur
3.	Dr U. A. Deshpande Prof. & Head CSE VNIT Nagpur
4.	Dr. D. S. Adane, Prof. & Head IT, RCOEM Nagpur
5.	Mr Abhishek Nachankar, KDK COE, Nagpur
6.	Mr. Arjun Pasoriya, AMDOCS,Cyprus
7.	Mr S. W. Shende, Member Secretary
8.	Dr K. K. Bhoyar
9.	Dr U. H. Gawande
10.	Mrs Rupa A. Fadanvis
11.	Ms Nisha R. Wankhade
12.	Mrs Swati G. Kale
13.	Mr Manish Hadap
14.	Mr Bhushan Bawankar
15.	Mr A. D. Gaikwad
16.	Ms Priyanka Jaiswal
17.	Mr S. S. Chavhan
18.	Mrs S. S. Gugulothu
19.	Ms. Kiran Gavhane





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## Department of Information Technology Board of Studies in Information Technology

20.	Mr. Abahy Yeole
21.	Ms. Shraddha Karale

Leave of Absence is granted to the following Members:

1	Mr. Parikshit Umare, YouBotics Pvt. Ltd. Nagpur
---	---

The agenda for the meeting was as follows:

The agenda for the meeting shall be as follows:

- 26.1 Welcome of new members
- 26.2 Installation of member Secretary
- 26.3 Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.
- 26.4 To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2014 & Autonomous 2018) of the Undergraduate and Post graduate programs conducted under the Board.
- 26.5 To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2014 & Autonomous 2018 Schemes of Undergraduate program conducted under the Board.
- 26.6 To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate Program.
- 26.7 To discuss and propose the list of experiments, wherever there is a change, in the laboratory courses of Under-Graduate programs.
- 26.8 To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board.
- 26.9 To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.
- 26.10 To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate program that will be examined in End Semester Examination of Even Term 2020-21.



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## Department of Information Technology Board of Studies in Information Technology

- 26.11 To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Even Term 2020-21
- 26.12 To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG levels that will be examined in End Semester Examination Even Term 2020-21.
- 26.13 Updation/Preparation of Electronic question Bank upto VI Sem UG courses. To review solutions to all questions of Electronic Question Banks for all courses upto IV SEM (SoE 2018).
- 26.14 Updation/Preparation of subject Note Book for UG Courses. To consolidate the number of subject wise Note Books prepare as per SoE and plan for preparing Note Books for remaining subjects. Also to review the updation already prepared Note Books.
- 26.15 Any other matter with the permission of the Chair.

### Following decisions/suggestions are approved in the BoS Meeting:

25.1	Welcome of new Members.	The Chairman of the BoS, Dr. R. C. Dharmik welcomed the following new members of the Board of Studies in IT. Mr. Arjun Pasoriya, (UG Abroad Alumni-AMDOCS,Cyprus) Ms. Kiran Gavhane, Mr. Abahy Yeole, Ms. Shraddha Karale.
25.2	Installation of member Secretary	NIL
25.3	Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.	The Board of Studies in IT unanimously approved the minutes of 25 <sup>th</sup> meeting of Board of Studies in IT held on 6/6/2020 and Action Taken Report thereof.
25.4	To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2014 & Autonomous 2018 ) of the Undergraduate program conducted under the Board.	SOE 2014(Revised 2020-21) : NIL SOE 2018(Revised 2020-21) : NIL



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## Department of Information Technology Board of Studies in Information Technology

25.5 To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2014 & Autonomous 2018 Schemes of Undergraduate program conducted under the Board.

Minor Changes in the syllabus of following courses were modified (Annex.1)

Sem	Course
V(SoE 2018)	IT-2331: OE- II: Machine Learning
VI (SoE 2018)	IT2361: PE-II Machine Learning

Following Minor Changes in the VII Sem. courses of SoE-2018 has been suggested by the expert members:

Course	Suggestions
IT2412 : PE-III – Real Time Systems	Merge Unit 1 &2 Split Unit 4 in two parts.
IT2413: PE-III– Network Security	Unit 1 is General add more contents. Start with mathematical foundation, like Inverse in Polynomials, Fermats, and examples Unit 4 is heavy split it.  Add <b>Behrouz A. Forouzan</b>  Book as a text book. Add Stinson book as Reference
IT2414 – Information Retrieval	Remove Content based image retrieval portion from unit-5 Keep the focus on text extraction only. Modify unit 4 & 5.
IT2421 – (PEIV) Neural Network and Fuzzy Logic	Unit 3 : Mention Introduction to Deep Learning Unit 6 : add Fuzzy control , hybrid control ,neuro etc.
IT2422 – (PEIV) LAB:	Refer Timothy book for list of practicals.



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## Department of Information Technology Board of Studies in Information Technology

		Neural Network and Fuzzy Logic	
		IT2432 - Distributed Systems	Merge Unit 1 & 2 Rearrange Fault Tolerance & Agreement protocols.
		PE-VI-IT2444 - Natural Language Processing	Remove Text book no. 2 "Introduction to Information Retrieval"
25.6	Changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate and Postgraduate Programs.	IT2413: PE-III- Network Security: Add <b>Behrouz A. Forouzan Book</b> Add Stinson book as Reference  IT2422 - (PEIV) LAB: Neural Network and Fuzzy Logic: Add Timothy Book  PE-VI-IT2444 - Natural Language Processing: Remove "Introduction to Information Retrieval" Book	
25.7	To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of UG program.	No change	
25.8	Changes in the Academic Regulations governing the UG & PG Programme	NIL	
25.9	To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.	NIL	
25.10	To prepare and propose the panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs that will be examined in End Semester Examination of Even Term	--	



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2020-21.																																					
25.11	To prepare and propose the list of question paper setters and evaluators for all the Postgraduate courses under the Board that will be examined in End Semester Examination of Edd Term 2020-21	NA																																			
25.12	To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination Even Term 2020-21.	--																																			
25.13	Updation/Preparation of Electronic question Bank upto VI Sem UG courses. To review solutions to all questions of Electronic Question Banks for all courses upto IV SEM (SoE 2018).	<p><b>List of subjects where the question papers are to be set from EQB</b></p> <table border="1"> <thead> <tr> <th>SN</th> <th>Semester</th> <th>Course Name</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>I &amp; II</td> <td>IT2101: Introduction to Computer Programming</td> </tr> <tr> <td>2.</td> <td rowspan="2">III</td> <td>IT2203: Object Oriented Programming</td> </tr> <tr> <td>3.</td> <td>IT2201: Digital Circuits &amp; Microprocessors</td> </tr> <tr> <td>4.</td> <td rowspan="4">IV</td> <td>IT2251: Data Structures and Program Design-II</td> </tr> <tr> <td>5.</td> <td>IT2255: Operating Systems</td> </tr> <tr> <td>6.</td> <td>IT2257: Theory of Computation</td> </tr> <tr> <td>7.</td> <td>IT2253: Computer Networks</td> </tr> <tr> <td>8.</td> <td>V</td> <td>IT2301: Data Base Management Systems</td> </tr> <tr> <td>9.</td> <td rowspan="3">VI</td> <td>IT2351: Design &amp; Analysis of Algorithms</td> </tr> <tr> <td>10.</td> <td>IT2353: Principles of Compiler Design</td> </tr> <tr> <td>11.</td> <td>IT2365: PE II: Internet of Thing</td> </tr> <tr> <td>12.</td> <td rowspan="2">VII &amp; VIII</td> <td>IT1403: Principle of Compiler Design</td> </tr> <tr> <td>13.</td> <td>IT1415: Neural Networks &amp; Fuzzy Logic</td> </tr> </tbody> </table> <p><b>Status of Question Bank</b>            I SEM- (ITCP)            III SEM (DCM,OOP,DSPD1,CAO)            IV SEM ( DSPD2,CN,OS,TOC)            V SEM (DBMS, SE,DAS)            VI SEM (DAA,BI,IOT)</p>	SN	Semester	Course Name	1.	I & II	IT2101: Introduction to Computer Programming	2.	III	IT2203: Object Oriented Programming	3.	IT2201: Digital Circuits & Microprocessors	4.	IV	IT2251: Data Structures and Program Design-II	5.	IT2255: Operating Systems	6.	IT2257: Theory of Computation	7.	IT2253: Computer Networks	8.	V	IT2301: Data Base Management Systems	9.	VI	IT2351: Design & Analysis of Algorithms	10.	IT2353: Principles of Compiler Design	11.	IT2365: PE II: Internet of Thing	12.	VII & VIII	IT1403: Principle of Compiler Design	13.	IT1415: Neural Networks & Fuzzy Logic
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## Department of Information Technology Board of Studies in Information Technology

VII SEM (PCD, NP, NS, DM, RTS, DS, NNFL, CC)

25.14 Updation/Preparation of subject Note Book for UG Courses. To consolidate the number of subject wise Note Books prepare as per SoE and plan for preparing Note Books for remaining subjects. Also to review the updation already prepared Note Books.

### Status of Notebooks Prepared

Sem.	Course title
I & II	ITCP
III	DSPD-I, CAO
IV	OS, CN
V	DBMS

### Proposed Notebooks (2020-2021)

Sem.	Course title	Faculty Name
III	DCM	SSG
III	OOP	NRW + RAF
IV	DSPD-II	SWS + SSC
IV	TOC	BUB + RCD
V	SE	ADG + SGK

25.15 Any other matter

### Minor and Honors Programme:

1. B.E. Minor in Cloud Computing and Big Data Analytics, is proposed.

2. Following three Honors programme are proposed:

1. B.E. Honors in Data Sciences and Machine Learning
2. B.E. Honor in Cyber Security (Industry Associated-CryptoForensic)
3. B.E. Honors in Soft Computing (SWAYAM/NPTEL Courses)

### Certificate Courses:

Proposal of following two certificate courses were



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## Department of Information Technology Board of Studies in Information Technology

	approved: 1. Internet of Things 2. Python Programming
--	---

The SOE for 2018-22 scheme was discussed at length and the chairman is authorized to finalize the SOE.

The meeting concluded with thanks to the Chair.

Sr. No.	Name of Expert Member	Designation	Signature
1	Dr. S. R. Sathe	Professor CSE, VNIT Nagpur.	
2	Dr. U. A. Deshpande	Professor & Head CSE , VNIT Nagpur	
3	Dr. D. S. Adane	Professor & Head IT, RCOEM Nagpur	
4	Mr Abhishek Nachankar	Asst. Prof. CT Deptt., KDK, Nagpur (Alumni Member)	
5	Mr. Arjun Pasoriya	AMDOCS,Cyrus	

**Mr. Shailendra W. Shende**  
Member Secretary  
BoS in Information Technology

**Dr. R. C. Dharmik**  
Chairman  
BoS in Information Technology

### Annexures:

- I. Minor changes in Syllabi (2 courses)
- II. SOE. Minor and Honor Programme



Nagar Yuwak Shikshan Sanstha's  
**Yeshwantrao Chavan College of Engineering**  
 (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)  
 BE SoE and Syllabus 2018-2022

**Information Technology**

**B. E. VI Semester**

IT2361	PE-II Machine Learning		L=3	T=0	P=0	Credits=3
Evaluation Scheme	MSE-I	MSE-II	TA	ESE	Total	ESE
	15	15	10	60	100	3 Hrs.
Prerequisite Courses	ITCP, Data Structures					

Course Learning Objectives	Course Outcomes	PO mapped
1. To introduce basic concepts of machine learning and explain the relative strengths and weaknesses of different machine learning Methods. 2. To understand the different aspects of supervised learning 3. To understand the concepts of unsupervised learning 4. To learn to apply supervised and unsupervised learning algorithms to solve the problem	After undergoing the course, student will be able to: 1. Understand various models of supervised and unsupervised learning 2. analyze a problem and identify appropriate machine learning paradigm to solve it. 3. apply supervised learning for the given set of labelled samples and design the model to meet the desired outcomes 4. apply unsupervised learning for the given set of samples, and design the model to meet the desired outcomes	PO-1(H) PO-2(H) PO-3(H) PO-3(H), PO-4(H)

Unit No.	Contents	Max. Hrs.
1	<b>Introduction to machine learning.</b> What Is Machine Learning, Examples of Machine Learning Applications, Learning Associations, Classification, Regression, Supervised and Unsupervised Learning, Reinforcement Learning, Introduction to Statistics, linear least squares fitting	(6)
2	<b>Supervised Learning-1:</b> k-Nearest Neighbors, linear Models, Naive Bayes Classifiers, Decision Trees. Extracting rules from trees, Ensemble methods for decision trees, random forest models, Generalization, Overfitting, and Underfitting	(6)
3.	<b>Supervised Learning-2:</b> Logistic Regression, Kernelized Support Vector Machines, SVM parameters C and gamma. kernel trick, Uncertainty Estimates from Classifiers, The Decision Function, predicting Probabilities, Uncertainty in Multiclass Classification, multivariate classification and regression.	(6)
4	<b>Unsupervised Learning:</b> k-Means Clustering, Expectation-Maximization Algorithm, Supervised Learning after Clustering, Hierarchical Clustering, Choosing the Number of Clusters	(6)



# Yeshwantrao Chavan College of Engineering

(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)  
BE SoE and Syllabus 2018-2022



## Information Technology

### B. E. VI Semester

5	<b>Design and Analysis of Machine Learning Experiments:</b> Factors, Response, and Strategy of Experimentation, Randomization, Replication, and Blocking, Guidelines for Machine Learning Experiments, Cross-Validation and Re-sampling Methods, K-Fold Cross-Validation, Bootstrapping, Measuring Classifier Performance, Hypothesis Testing, Assessing a Classification Algorithm's Performance, Comparing Two Classification Algorithms.	(5)
6	<b>Advances in Machine Learning:</b> Combining multiple learners, bagging and boosting, introduction to learning using Neural networks, shallow and deep networks.	(6)

#### Text Books

Sr. No.	Title	Authors	Publisher
1	Introduction to Machine Learning, Second Edition	Ethem Alpaydın	The MIT Press
2	Introduction to Machine Learning with Python, A Guide for Data Scientists	Andreas C. Müller and Sarah Guido	ORIELLY

#### Reference Books

1	Machine Learning	Tom M. Mitchel	McGraw Hill
2			



Nagar Yuwak Shikshan Sanstha's  
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**Information Technology**

**B. E. VI Semester**

IT2362	PE-II: Machine Learning Laboratory	L = 0	T = 0	P = 2	Credits = 1
Evaluation Scheme	CA		ESE	Total	ESE Duration
	40		60	100	3 Hrs

Course Learning Objective	Course Outcomes	PO mapped
To understand the working of Machine learning, algorithms practically.	Students will be able to: Implement the Machine learning algorithms to solve the given problem	PO-4(H), PO-5(H)

Sr. No	Problem Statements
1.	Experiment on k-Nearest Neighbors, ,
2.	Experiment on Naive Bayes Classifiers
3.	Experiment on Decision Trees
4.	Experiment on Kernelized Support Vector Machines
5.	Experiment on k-Means Clustering
6.	Experiment on Hierarchical Clustering
7.	Experiment on K-Fold Cross-Validation
8.	Experiment on combining multiple learners
9.	Experiment on neural networks using backpropagation algorithm
10.	Experiment on deep neural networks



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BE SoE and Syllabus 2018-2022

## Information Technology

B.E., V Sem.

Course Code: IT-2331	OE- II: Machine Learning		L=3	T=0	P=0	Credits=3
Evaluation Scheme	MSE-I	MSE-II	TA	ESE	Total	ESE Duration
	15	15	10	60	100	3 Hrs.
Prerequisite Courses	ITCP, Data Structures, Mathematics (Linear algebra, Trigonometry, Statistics, Calculus)					

Course Learning Objectives	Course Outcomes	PO mapped
<ol style="list-style-type: none"> <li>To introduce basic concepts of machine learning and explain the relative strengths and weaknesses of different machine learning Methods.</li> <li>To understand the different aspects of supervised learning</li> <li>To understand the concepts of unsupervised learning</li> <li>To learn to apply supervised and unsupervised learning algorithms to solve the problem</li> </ol>	<p>After undergoing the course, student will be able to:</p> <ol style="list-style-type: none"> <li>Understand various models of supervised and unsupervised learning</li> <li>analyze a problem and identify appropriate learning paradigm to solve it.</li> <li>apply supervised learning for the given set of labelled samples and design the model to meet the desired output</li> <li>apply unsupervised learning for the given set of samples, and design the model to meet the desired output</li> </ol>	<p>PO-1(H)</p> <p>PO-2(H)</p> <p>PO-3(M)</p> <p>PO-3(M), PO-4(M)</p>

Unit No.	Contents	Max. Hrs.
1	Introduction to machine learning. What Is Machine Learning, Examples of Machine Learning Applications, Supervised and Unsupervised Learning, Classification, Regression, Learning Associations, Reinforcement Learning, Introduction to Statistics, linear least squares fitting	(7)
2	Supervised Learning-1: k-Nearest Neighbors, linear Models, Naive Bayes Classifiers, Decision Trees, Extracting rules from trees, Ensemble methods for decision trees, random forest models, Generalization, Over-fitting, and Under fitting	(8)



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BE SoE and Syllabus 2018-2022

## Information Technology

### B.E. V Sem.

3.	Supervised Learning-2: Logistic Regression, Support Vector Machines: Optimal Separating Hyperplane, Soft Margin Hyperplane, SVM parameters C and gamma, kernel trick, Kernelized Support Vector Machines.	(6)
4	Unsupervised Learning: <i>k</i> -Means Clustering, Expectation-Maximization Algorithm, Semi Supervised Learning in Clustering, Hierarchical Clustering, Choosing the Number of Clusters	(7)
5	Design and Analysis of Machine Learning Experiments: Factors, Response, and Strategy of Experimentation, Randomization, Replication, and Blocking, Guidelines for Machine Learning Experiments, Cross-Validation and Resampling Methods, K-Fold Cross-Validation, Comparing Two Classification Algorithms.	(6)
6	Advances in Machine Learning: Introduction to learning using Neural networks, shallow and deep networks.	(6)

### Text Books

Sr. No.	Title	Authors	Publisher
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**Yeshwantrao Chavan College of Engineering**  
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Ph.: 07104-237919, 234623, 329249, 329250 Website: [www.ycce.edu](http://www.ycce.edu), Email: [principal@ycce.edu](mailto:principal@ycce.edu)

Department of Information Technology

YCCE/IT/NOTICE/CDW/1

16/04/2021

Notice of CDW-8


Dear Sir/ Madam,

The 8<sup>th</sup> Curriculum development workshop in the department of Information Technology is scheduled on Saturday 24<sup>th</sup> April 2021 in an online mode on Google Meet platform at 10:30 AM.

In the workshop, we shall review the curriculum of Final year B.E. in IT.

Related faculty members and incharges are require to design the syllabus of following subject and submit to the undersigned on or before 20/04/2021 in hardcopy and softcopy.

Sem.	Course Name	Course Type	Faculty	Signature
VII & VIII	Data Mining	Theory & lab	Prof. R. A. Fadnavis	
	Principles of Artificial Intelligence	Theory	Prof. U. H. Gawande	
	PE III: Cloud Computing	Theory	Prof. R. C. Dharmik	
	PE III: Real Time Systems	Theory	Prof. S. W. Shende	
	PE III: Network Security	Theory	Prof. S. G. Kale	
	PE III: Information Retrieval	Theory	Prof. K. K. Bhoyar	
	PE IV: Neural Network and Fuzzy Logic	Theory & lab	Prof. U. H. Gawande	
	PE IV: Ethical Hacking and Cyber Forensics	Theory & lab	Prof. A. D. Gaikwad	
	PE IV: Human Computer Interaction	Theory & lab	Prof. P. G. Jaiswal	
	PE IV: Parallel Computing	Theory & lab	Prof. S. W. Shende	
	PE V: Digital Image Processing	Theory	Prof. K. K. Bhoyar	
	PE V: Distributed Systems	Theory	Prof. S.S. Chavhan	
	PE V: Coding Standard and Technical Documentation	Theory	Prof. N. R. Wankhade	
	PE VI: Advanced Computer Architecture	Theory	Prof. S.S. Chavhan	
	PE VI: Mobile Communication	Theory	Prof. A. D. Gaikwad	
	PE VI:E-commerce	Theory	Prof. B. U. Bawankar	
	PE VI: Natural Language Processing	Theory	Prof. S. G. Kale	

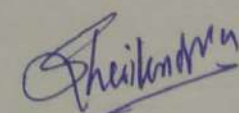
  
Dr. R. C. Dharmik

Chairman,

BoS in Information Technology

Head, Deptt. of Information Tech.,  
YCCE, Nagpur - 441110

Version-1

  
Prof. Shailendra W. Shende

Member Secretary

BoS in Information Technology

Approved by :- BoS Information Technology

2020-21



Nagar Yuwak Shikshan Sanstha's

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## Department of Information Technology Board of Studies in Information Technology

Date: 23<sup>rd</sup> April 2021

To,  
All the Faculty Members

The 8<sup>th</sup> Curriculum Development Workshop under the Board of Studies in Information Technology is scheduled on 24<sup>th</sup> April 2021 at 10:30 am in an online mode on Google Meet platform.

The agenda for the meeting shall be as follows:

- 1) Confirmation of minutes of previous Meeting.
- 2) To review the Scheme of Examination-2018 for UG programme
- 3) To discuss and suggest the changes in the syllabi of various courses in VII Sem & VIII Sem. of Undergraduate program.
- 4) To review the Scheme of Examination of Minor and Honors Programme.
- 5) To discuss and suggest the changes in the syllabi of various courses under the Minor & Honor Programme.
- 6) To discuss and suggest the changes in the Text Books/ Reference Books/ Literature Sources published in the syllabi of courses in Undergraduate, Minor & Honors Programme.
- 7) To discuss and review the list of experiments/practicals, in the laboratory courses of UG program.
- 8) To discuss the feedback received from students /teachers/ employers/alumni/parents regarding teaching learning process in order to review and design the syllabus
- 9) Any other matter with the permission of the Chair.

Kindly make it convenient to attend the meeting.

Thanking You.

Mr. S.W. Shende  
Member Secretary  
Board of Studies in  
Information Technology  
Assistant Professor  
Dept. of Information Tech  
YCCEE, NAGPUR - 441110

Dr. R. C. Dharmik  
Chairman  
Board of Studies in  
Information Technology

Head, Deptt. of Information Tech.,  
YCCEE, Nagpur - 441110



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## Department of Information Technology Board of Studies in Information Technology

Date: 23<sup>rd</sup> April 2021

To,

Dr. S. R. Sathe  
Prof. CSE Deptt.  
VNIT Nagpur

Respected Sir,

The 8<sup>th</sup> Curriculum Development Workshop under the Board of Studies in Information Technology is scheduled on 24<sup>th</sup> April 2021 at 10:30 am in an online mode on Google Meet platform.


The agenda for the meeting shall be as follows:

- 1) Confirmation of minutes of previous Meeting.
- 2) To review the Scheme of Examination-2018 for UG programme.
- 3) To discuss and suggest the changes in the syllabi of various courses in VII Sem & VIII Sem. of Undergraduate program.
- 4) To review the Scheme of Examination of Minor and Honors Programme.
- 5) To discuss and suggest the changes in the syllabi of various courses under the Minor & Honor Programme.
- 6) To discuss and suggest the changes in the Text Books/ Reference Books/ Literature Sources published in the syllabi of courses in Undergraduate, Minor & Honors Programme.
- 7) To discuss and review the list of experiments/practicals , in the laboratory courses of UG program.
- 8) To discuss the feedback received from students /teachers/ employers/alumni/parents regarding teaching learning process in order to review and design the syllabus
- 9) Any other matter with the permission of the Chair.

Kindly make it convenient to attend the meeting.

Thanking You.

Mr. S.W. Shende  
Member Secretary  
Board of Studies in  
Information Technology

  
Dr. R. C. Dharmik  
Chairman  
Board of Studies in  
Information Technology



Nagar Yuwak Shikshan Sanstha's

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## Department of Information Technology Board of Studies in Information Technology

### Minutes of the Meeting CDW-8

The 8<sup>th</sup> meeting of the Curriculum development under Board of Studies in **Information Technology** was held on **24/04/2021** (Saturday) at 10:30 a.m. onwards in an online mode on Google Meet Platform (Meeting ID link: <https://meet.google.com/ybr-vkpt-qrc>)

The following BoS Members attended the meeting.

Sr. No.	Name
1.	Dr. R. C. Dharmik , Chairman
2.	Dr. S. R. Sathe Prof. CSE VNIT Nagpur
3.	Dr. U. A. Deshpande Prof. & Head CSE VNIT Nagpur
4.	Mr. Saurabh Jain, Senior Architect, PSPL Nagpur
5.	Mr. Arjun Pasoriya, AMDOCS,Cyprus
6.	Dr K. K. Bhoyar
7.	Dr U. H. Gawande
8.	Ms Nisha R. Wankhade
9.	Mrs Swati G. Kale
10.	Mr Manish Hadap
11.	Mr Bhushan Bawankar
12.	Mr A. D. Gaikwad
13.	Ms Priyanka Jaiswal
14.	Mr S. S. Chavhan
15.	Mr S. W. Shende, Member Secretary





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## Department of Information Technology Board of Studies in Information Technology

Leave of Absence is granted to the following Members:

1.	Mrs Rupa A. Fadanvis
2.	Mrs S. S. Gugulothu
3.	Ms. Kiran Gavhane
4.	Mr. Abahy Yeole
5.	Ms. Shraddha Karale

- 1) Confirmation of minutes of previous Meeting.
- 2) To review the Scheme of Examination-2018 for UG programme.
- 3) To discuss and suggest the changes in the syllabi of various courses in VII Sem & VIII Sem. of Undergraduate program.
- 4) To review the Scheme of Examination of Minor and Honors Programme.
- 5) To discuss and suggest the changes in the syllabi of various courses under the Minor & Honor Programme.
- 6) To discuss and suggest the changes in the Text Books/ Reference Books/ Literature Sources published in the syllabi of courses in Undergraduate, Minor & Honors Programme.
- 7) To discuss and review the list of experiments/practicals, in the laboratory courses of UG program.
- 8) To discuss the feedback received from students /teachers/ employers/alumni/parents regarding teaching learning process in order to review and design the syllabus
- 9) Any other matter with the permission of the Chair.

Following decisions/suggestions are approved in the CDW Meeting:

8.1	Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.	The Board of Studies in IT unanimously approved the minutes of 26 <sup>th</sup> meeting of Board of Studies in IT held on 30/01/2021 and Action Taken Report thereof.
8.2	To review the Scheme of Examination-2018 for UG programme.	Reviewed and Approved



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## Department of Information Technology Board of Studies in Information Technology

<p>8.3 To discuss and suggest the changes in the syllabi of various courses in VII Sem &amp; VIII Sem. of Undergraduate program</p>	<ol style="list-style-type: none"><li>1. Principles of Artificial Intelligence-(UHG): Add the topics Responsible AI and Explainable AI, etc in last unit, Case studies in AI to be included.</li><li>2. Network Security-(SGK): Add topics Galois Field Groups, Rings</li><li>3. Information Retrieval (KKB): Restructure unit 3,4,5,6.</li><li>4. Neural Network and Fuzzy Logic(UHG): Modify unit 6 (Arch. of Neuro fuzzy n/w may be removed)</li><li>5. Parallel Computing-(SWS): Add the topics Loop unrolling ,</li><li>6. Advanced Computer Architecture(SSC): Add the topics based on new architecture (Multi core, CDAC).</li><li>7. E-commerce- (BUB): Add the topic SKU in either unit 1 or 2.</li><li>8. Mobile Communication (ADG) : Add the topics on IoT and 5G Technologies.</li><li>9. Natural Language Processing (SGK): Add the topics Word embedding , Phrase embedding etc.</li></ol>
<p>8.4 To review the Scheme of Examination of Minor and Honors Programme</p>	<p>SoE of B.E. Minors in Cloud Computing and Big Data Analytics reviewed and approved.</p> <p>SoE of B.E. Honors in Data Sciences and Machine Learning, B.E. Honor in Cyber Security, &amp; B.E. Honors in Artificial Intelligence and Deep Learning (SWAYAM/NPTEL Courses), Reviewed and following suggestions were given by the Expert members:</p> <ol style="list-style-type: none"><li>1. Give the Flexibility to the students to opt to this programme from III sem. onwards because it tough for the students to handle two extra courses in each semester.</li><li>2. Overlapping of courses in SoE of IT and SoE of</li></ol>



Nagar Yuwak Shikshan Sanstha's

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## Department of Information Technology Board of Studies in Information Technology

		Honors is there, Needs some check so same course should not be opted by the students. 3. Try to remove the repetition of the courses.
8.5	To discuss and suggest the changes in the syllabi of various courses under the Minor & Honor Programme.	Introduction to Cloud Computing (RCD): Remove the topic HDFS.
8.6	To discuss and suggest the changes in the Text Books/ Reference Books/ Literature Sources published in the syllabi of courses in Undergraduate, Minor & Honors Programme.	<b>Principles of Artificial Intelligence-(UHG):</b> Check the book authored by Patterson appear as Text and Reference, modify accordingly
8.7	To discuss and review the list of experiments/practicals , in the laboratory courses of UG program	OK
8.8	To discuss the feedback received from students /teachers/ employers/alumni/parents regarding teaching learning process in order to review and design the syllabus	Add he latest topics used in Industry like 5G Technologies, SKU (Stock-keeping unit), Latest Architecture, Multi core architecture.



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## Department of Information Technology Board of Studies in Information Technology

The SOE for 2018-22 scheme was discussed at length and the chairman is authorized to finalize the SOE.

The meeting concluded with thanks to the Chair.

Sr. No.	Name of Expert Member	Designation	Signature
1	Dr. S. R. Sathe	Professor CSE, VNIT Nagpur.	
2	Dr. U. A. Deshpande	Professor & Head CSE , VNIT Nagpur	
3	Mr. Saurabh Jain,	Senior Architect, PSPL Nagpur	
4	Mr. Arjun Pasoriya	AMDOCS,Cyprus	

Mr. Shailendra W. Shende  
Member Secretary  
BoS in Information Technology

Dr. R. C. Dharmik  
Chairman  
BoS in Information Technology

Assistant Professor  
Dept. of Information Tech  
YCCCE, NAGPUR - 441110

Head, Deptt. of Information Tech.,  
YCCCE, Nagpur - 441110

Nagar Yuwak Shikshan Sanstha's

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Department of Information Technology  
Board of Studies in Information Technology

Yeshwantrao Chavan College of Engineering  
Nagar Yuwak Shikshan Sanstha's  
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BE SoE and Syllabus 2016  
Information Technology  
VII & VIII Semester

IT2401 - Data Mining

Unit No.	Contents	Max. Mks.
1	Introduction to data mining, Data mining definitions & task, data mining on what kind of data Knowledge Discovery vs. Data mining, DBMS vs. Data Mining, Data mining functionalities, data mining task primitives, Major issues in data mining, applications of data mining	5
2	Association Rule Mining, what is Frequent itemsets, closed itemsets, and association rules, Essential patterns, mining applications of Association Rule mining, The Apriori algorithm for	6

Participants: Priyanka Jais... and 4 more, Saurabh Jain, Jayashree Sa., Kishorek B, Umesh Deshp., Manish Had., Amol Garw., Sushil Cha., Ujwalla G.



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**Board of General engineering**

**Agenda: 21<sup>th</sup> Board of Studies Meeting**

**Saturday, June 20<sup>th</sup>, 2020 , Time : 11.00 a.m.**

**Item No. 21.01**

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

**Item No21.02**

To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2014 & Autonomous 2018) of the Undergraduate programs conducted under the Board.

**Item No.21.03**

To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2014 and 2018 Schemes of Undergraduate conducted under the Board.

**(Comment: Consider the remarks given by the faculty in course completion reports of previous terms)**

**Item No. 21.04**

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

**Item No. 21.05**

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

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

**Item No21.06**

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

**Item No.21.7**

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 2020-21.

**Item No. 21.8**

To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG levels that will be examined in End Semester Examination Odd Term 2020-21.

**Item No.21.9**

To review solutions to all questions of Electronic Question Banks for all courses up to V I Semester (SoE 2018).

**Item No.21.10**

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

**Item No.21.11**

To discuss feedback on Teaching Learning Process from students, it's process, method, inferences from its analysis, etc. and propose the changes, if any.

**Item No. 21.12:** To discuss completion feedback from faculties to be submitted to head-department of

Applied Physics, Applied Chemistry and Applied Mathematics and Humanities.

**Item No.21.13**

Any other matter with the permission of the Chair.



**Dr. Manjusha P. Gandhi,**  
Chairperson BoS in GE ,



**Dr. Malabika Adak**  
Member secretary, BoS in GE



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Board of Studies (General Engineering)

## Minutes of 21<sup>st</sup> BOS Meeting in General Engineering

The 21<sup>st</sup> BOS meeting of General Engineering board meeting was held on Saturday, 20<sup>th</sup> June 2020 on line due to COVID-19 Pandemic, at 11.00 a.m. The meeting was carried out in the absence of Dr. P. U. Waghe, Mrs. M. B. Mahalle, Dr. A. B. Bhake. The minutes of meeting are as follows:

### Details

#### Item No

- 21.01 Minutes of previous meeting were confirmed.
- 21.02 The comments from members are not received on scheme 2018-19
- 21.03 Small changes are suggested in syllabus of Chemistry on topic battery should be included in syllabus for clear understanding.
- 21.04 The list of books / Reference Books/ Literature Sources specified in the syllabi of all courses is carried forward.
- 21.05 No changes in laboratory courses for experiment in UG program.
- 21.06 The comments from members are not received on changes in academic regulations.
- 21.07 New courses are not proposed to add in curriculum.
- 21.08 HoDs have proposed the list of question paper setters, moderators and evaluators, under the Board that will be for UG courses for Even Semester Examination 2019-20.
- 21.09 It is proposed that marks of End Semester Examination will be 40, internal marks will be 60 whereas MSE I, MSE -II , MSE-III will be conducted for 15 marks and



best two will be considered, but TA marks should be 30 marks including 20 small tests in ODD semester examination in 2020-21.

21.10 E- Question Banks of all courses are updated.

21.11 Course Completion feedback from faculties are submitted to head, departments of Applied Physics, Applied Chemistry and Applied Mathematics and Humanities

21.12 Communication Skill development activities to be continued as in previous years.

Meeting ends with vote of thanks

*M. Manjusha P. Gandhi*  
Dr. Manjusha P. Gandhi,  
Chairperson BoS in GE ,

*M. Adak*  
Dr. Malabika Adak  
Member secretary, BoS in GE

Attendance bot: dev(Pavan:p2pdops@gmail.com) on 2021-06-20 : 14:23:  
<https://meet.google.com/odg-djxo-hus?authuser=0>

Members present : 28

MALABIKA ADAK  
Aabha Sargaonkar  
AKSHAYKUMAR MESHRAM  
Anushree Aserkar  
ARTI GHOGRE  
ARVINDER KOUR MEHTA  
ASFAR SIDDIQUI  
DNYANESHWAR BAWANE  
MANJUSHA GANDHI  
MILIND DANDALE  
ARSALA SHEIKH  
Monali Dhote  
NILESH BHOSALE  
PRAKASH BAHATKAR  
shrikant ashtankar  
VISHAKHA BHANDARKAR  
Vivek Nanoti  
Dr. Arvinder Kour  
Chudaman Pourkar  
HEMLATA GANVIR  
MAMTA DANI  
Megha Sawangikar  
PRAJAKTA WAGHE  
Swati Fartode  
Veena C  
ADITYA BIOINNOVATION  
mohini gedam  
VIKRANT GANVIR



**Yeshwantrao Chavan College of Engineering**  
**(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)**  
**Accredited 'A' Grade by NAAC**  
**Hingna Road, Wanadongri, Nagpur-441110**

**Board of General engineering**

**Agenda: 22<sup>nd</sup> Board of Studies Meeting**

**Saturday, February 13<sup>th</sup>, 2021 , Time :1.00 p.m.**

**Item No. 22.01**

Welcome of new members

**Item No. 22.02**

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

**Item No.22.03**

To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2018 Schemes of Undergraduate conducted under the Board.

**Item No. 22.04**

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

**Item No. 22.05**

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

**Item No.22.06**

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

**Item No.22.07**

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

**Item No.22.08**

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 2020-21.

**Item No.22.09**

To review solutions to all questions of Electronic Question Banks for all courses upto VI Semester (SoE 2018).

**Item No.22.10**

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

**Item No.22.11**

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

**Item No.22.12**


To discuss feedback on Teaching Learning Process from students, it's process, method, inferences from its analysis, etc. and propose the changes, if any.


**Item No. 22.13:**

To discuss completion feedback from faculties to be submitted to head-department of Applied Physics, Applied Chemistry and Applied Mathematics and Humanities.

**Item No.22.14**

Any other matter with the permission of the Chair.

  
**Dr. Manjusha P. Gandhi,**  
Chairperson BoS in GE ,

  
**Dr. Malabika Adak**  
Member secretary, BoS in GE



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**Board of Studies (General Engineering)**

**Minutes of 22<sup>nd</sup> BOS Meeting in General Engineering**

The 22<sup>nd</sup> BOS meeting of General Engineering board was held on 13<sup>th</sup> February 2021, Saturday at 1.00 p. m.. The meeting was organized online due to COVID-19 Pandemic. Total 28 members have joined the meeting. The external experts: Dr. Vivek Nanoti, Principal, PIET, Nagpur; Dr. Abha Sargaokar, Principal Scientist-NEERI, Dr. S. S. Bagchi, Dy. General Manager Reliance Power, Butibori, Nagpur were present during the meeting. Also invitee Ms Veena C-trainer Spanish Language was present. The minutes of meeting are as follows:

Item No	Details
22.01	The meeting begins with welcome of new members: Dr. Anushree Aserkar, Prof. Monali Dhote, Ms. Geeta Shingade, Ms. Madhuri Tayde, Dr. S.A. Fartode, Prof. Chudaman Pourkar, Dr. Megha Sawangikar, Dr. Bharati Patil.
22.02	Minutes of previous meeting were confirmed.
22.03	Syllabi content for various subjects are kept as it is by the members of BOS.
22.04	The list of books / Reference Books/ Literature Sources specified in the syllabi of all courses is carried forward. Some online available E-books are suggested by expert Dr. Abha Sargaonkar.
22.05	The list of experiments for UG courses in Physics and Chemistry are continued as it was.
22.06	The academic regulations are accepted by the members without any suggestions.
22.07	New courses are proposed as: Introduction to Spanish language, Introduction to French Language and Introduction to Japanese. Dr. V. Nanoti suggested to start level 2 German language and advised members to encourage the students to complete their Master in European country.
22.08	HoDs have proposed the names of faculty for question paper setting, moderation of it and evaluation, for Even Semester Examination 2020-21 under UG program.
22.09	E- Question Banks of all courses up to VI semester are updated.

22.10	The BOS members have suggested, to continue with the existing evaluation process of theory and other courses.
22.11	Minor course –“ <b>Introduction to Corporate Management</b> ” -Entrepreneurship Development, Production and Operation Management, Corporate Finance, Market Research, Strategic Brand Development, Industrial relation and legislation and “ <b>Introduction to Foreign Languages</b> ”- German level-1,level 2,Spanish, French, Japanese, are suggested by members. The meeting ends with the vote of thanks to all members.
22.12	Course Completion feedback from faculties are submitted to head, departments of Applied Physics, Applied Chemistry and Applied Mathematics and Humanities
22.13	Communication Skill development activities to be continued on online mode.
	Meeting ends with vote of thanks

*mhalli*  
**Dr. Manjusha P. Gandhi,**  
 Chairperson BoS in GE ,

*Mlek*  
**Dr. Malabika Adak**  
 Member secretary, BoS in GE

Attendance bot: dev(Pavan:p2pdops@gmail.com) on 2021-02-13 : 13:23:  
<https://meet.google.com/odg-djxo-hus?authuser=0>

Members present : 26

MALABIKA ADAK

Aabha Sargaonkar

AKSHAYKUMAR MESHRAM

Anushree Aserkar

ARTI GHOGRE

ARVINDER KOUR MEHTA

ASFAR SIDDIQUI

DNYANESHWAR BAWANE

MANJUSHA GANDHI

MILIND DANDALE

Monali Dhote

NILESH BHOSALE

PRAKASH BAHATKAR

shrikant ashtankar

VISHAKHA BHANDARKAR

Vivek Nanoti

Dr. Arvinder Kour

Chudaman Pourkar

HEMLATA GANVIR

MAMTA DANI

Megha Sawangikar

PRAJAKTA WAGHE

Swati Fartode

Veena C

ADITYA BIOINNOVATION

mohini gedam



  
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