



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

2019-20

## 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

## INDEX

<b>Sr. No.</b>	<b>Particulars</b>	<b>Page Nos.</b>
1.	Minutes of Academic Council	03-17
2.	Details of program syllabus revision in last 5 years	18-153



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### Minutes of 21<sup>st</sup> meeting of Academic Council held on 24<sup>th</sup> August 2019

The 21<sup>st</sup> meeting of Academic Council was held on 24<sup>th</sup> August 2019 at 11.00 am in the Board Room of YCCE, Nagpur. The following members attended the meeting.

1	Dr. U.P. Waghe, Principal & Chairman	13	Dr. Mrs. Manjusha P. Gandhi, HoD Mathematics and Humanities
2	Dr. Rajesh Pande, Principal, Shri Ramdeobaba College of Engineering and Management, Nagpur	14	Dr. J.R. Ghulghule, HoD Physics
3	Dr. N.C. Shivprakash, I,I,Sc., Bangalore	15	Dr. Mrs. Jyoti V. Miskin, HoD, Chemistry
4	Dr. Hemant Hajare, ITM College of Engineering, Nagpur	16	Prof. Arvind Bhagatpatil, Dean (P & D)
5	Mr. Sameer Bendre, Chief People Officer, Persistant System Ltd., Nagpur	17	Prof. D.R. Raut, COE
6	Dr. Shantanu R. Khandeshwar, HoD, Civil Engineering	18	Dr. M.M. Raghuvanshi, Professor in Information Technology, YCCE
7	Dr. Sharad S. Chaudhary, HoD, Mechanical Engineering	19	Dr. A.M. Pande, Professor in Civil Engg, YCCE and Director (R&D)
8	Dr. R.M. Moharil, HoD 's representative , Electrical Engineering	20	Dr. A.V. Patil, Professor, Civil Engineering, YCCE
9	Dr. P.T. Karule, HoD Electronics Engineering	21	Prof. Aniket P. Munshi, Electrical Engineering ,YCCE
10	Dr. M.S. Narlawar, HoD, Electronics & Telecommunication Engineering	22	Dr. A.V. Bapat, Dean (Acad. Mat.) & Member Secretary
11	Prof. Mrs. G.M. Dhopavkar, HoD Computer Technology		
12	Prof. R.C. Dharmik, HoD, Information Technology		

#### Leave of Absence granted to

1	Dr. N.G. Bawane, Principal, Jhulelal Institute of Technology, Nagpur	3	Mr. Milind Kank, Managing Director, Yeshshree Industries Ltd., Aurangabad
2	Mr. Priyadarshan Kshirsagar, Head Business (IT), Tata Motors Ltd., Pune	4	Dr. P.K. Dakhole, Registrar, YCCE





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### Item 21.01: Welcome of New members

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

### Item 21.02 To confirm the Minutes of 20<sup>th</sup> Meeting of the Academic Council and consider the action taken report.

*The Academic Council unanimously approved the minutes of Twentieth meeting of Academic Council held on 02nd March 2019 and Action Taken Report thereof.*

### Item 21.03 To discuss and approve the suggestions of Board of Studies for changes in Schemes of Examination and course contents of Autonomous 2014 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" scheme as below

#### ❖ Proposed New Professional Elective Courses

The BoS in has proposed the following new courses.

Electrical Engineering

#### 1. Professional Elective-I(Sixth Sem BE)

Illumination Engineering

#### 2. Professional Elective-IV(Eight Sem BE)

Electric Vehicles

Electronics Engineering

#### 3. Professional Electives-II (Eight Sem BE)

Programming, Data structure and Algorithms using Python

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

Branch	Sem	Course Code & Name
Civil Engg.	6	CV 1341 OE-II Elements of Earthquake Engineering
		CV1342 OE II: Air Pollution and Solid Waste Management.





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

Civil Engg.	5 & 7	CV1315 : Dr.A.G.Bhole, Design of Water Treatment Plant , IWWA Publication  CV1441 : S.K. Garg, Environmental Engineering – Vol – II, Sewage Disposal and Air Pollution Engineering Standard Publication Metcalf & Eddy, Wastewater Engineering-Treatment and Reuse, McGraw Hill Education; 4 edition (1 July 2017)
Electronics Engg.	8	Text Books on Python are added. 1. TEXT BOOK 1. Gowrishankar S, Veena A, "Introduction to Python Programming", 1st Edition, CRC Press/Taylor & Francis, 2018. ISBN-13: 978-0815394372 REFERENCE BOOKS / WEBLINKS: 1. NPTEL lecture series on Programming, Data Structures and Algorithms using Python 2. Jake VanderPlas, "Python Data Science Handbook: Essential Tools for Working with Data", 1st Edition, O'Reilly Media, 2016. ISBN-13: 978-1491912058 3. Aurelien Geron, Hands-On Machine Learning with Scikit-Learn and TensorFlow: Concepts, Tools, and Techniques to Build Intelligent Systems", 1st Edition, O'Reilly Media, 2017. ISBN – 13: 978-1491962299. 4. Wesley J Chun, "Core Python Applications Programming", 3rd Edition, Pearson Education India, 2015. ISBN-13: 978-9332555365 5. Miguel Grinberg, "Flask Web Development: Developing Web Applications with Python", 2nd Edition, O'Reilly Media, 2018. ISBN-13: 978-1491991732

❖ **The BoS has proposed the following MOOCS based course to be offered as**

Branch	Sem	Course Code & Name
Electrical Engg	6	PE-I: Illumination Engineering
Electronics Engg	8	Programming, Data structure and Algorithms using Python
Electronics & Tele. Comm. Engg	8	Joy of Computing –Python
Information Tech.	8	Data Base Management System
		Software Engineering

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



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### Item 21.04 To discuss and approve the suggestions of Board of Studies for changes in Schemes of Examination and course contents of 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 2018" scheme as below

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

Branch	Sem	Course Code & Name
Mechanical Engg.	3	ME1201 Material Science and Metallurgy
Computer Tech.	4	CT2257: Database Management Systems: Unit I to III based on basics of DBMS and unit IV to VI based on SQL.
	5/6	CT 2323/2373: OE I / III: Digital Image Processing- Suggested to remove contents such as Fourier Transform, DFT, IDFT, and some topics from image representation and compression.
		CT2321/2371: OE I / III: Introduction to DBMS – Suggested to add Date, string, arithmetic function of SQL instead of XML in Unit-VI.
		CT2333/2383: OE II/IV: Internet Technology- Suggested to remove contents such as Flow Control, Error Control, Congestion control, CGI Script, java Applet
		CT 2315: PE-I: Rough outline of the course Advanced Web Technologies

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

Civil Engg.	3	CV2207 ; Water Supply Engineering 1. E.W.Steel,T.J.McGhee, Water supply and Sewerage, McGraw-Hill Education; 6 edition (31 January 1991). 2. Fair,Geyer and Okun, Water and wastewater Engineering, John Wiley & Sons Ltd.
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#### ❖ The BoS has proposed the following MOOCS based course to be offered as

Branch	Sem	Course Code & Name
Civil Engg	4	Concrete Technology
Computer Tech.	6	MOOC course based on availability of Swayam 2020 course list

#### ❖ The minor changes in the PG (M.Tech) course contents suggested by the BoS as below

Computer Tech.	2	CSE3915: Software Lab 1
		CSE3931: Software Lab 2





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

### Industrial Mathematics:

The Academic Council advised Chairman, BOS, General Engineering to redraft the course after consulting with HoDs of Engineering Department and industry experts.

**Item 21.05 To discuss and finalize the changes, if any, in Academic Regulations.**

No changes in Academic Regulations.

**Item 21.06 To discuss and approve the report of Controller of Examinations for Odd Term 2018-19 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 various item in the report, mainly the results.

The Academic Council suggested to, combine Summer Special Term result with VIII Semester results.

*The Academic Council accepted the report of Controller of Examinations for the Even Term of 2018-19.*

**Item 21.07 To discuss and approve the changes, if any, in Examination Manual.**

No changes in Examination Manual

**Item 21.08 To discuss and approve the report of Dean (Academic Matters) for Even Term 2018-19.**

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 2018-19.*

**Item 21.09 To discuss and approve the report of Research Centre Activities for Odd Term 2018-19.**

The report of the Research Centre Activities was put before the members and discussed.

*The report Research Centre Activities for Even Term 2018-19 was approved by the Academic Council.*





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*A policy document 2019-20, No NYSS/CEO/2019-20/ dated 09.08.2019, a revision to policy document 2018 No NYSS/CEO/2017-18/ dated 15.09.2018, titled as, "Providing structure, system, guidance and financial assistance for promotion of research among faculty and students" which aims at promoting R&D culture amongst faculty and students of the institution, was also discussed with reference to revisions in the academic council and the same was unanimously approved.*

**Item 21.10 To discuss the approve the report of the Training and Placement Office for Odd Term 2018-19**

The report of the Training and Placement Office was put before the members and discussed.

*It was suggested to change the nomenclature of Training and Placement and should be called as a Carrier Guidance Cell (CGC).*

*The report of Training and Placement Office for Even Term 2018-19 was approved by the Academic Council.*

**Item 21.11 To discuss and approve to offer for foreign language course as open electives.**

*The Academic Council approved to offer for foreign language course as open electives in German, French and Chinese etc.*

**Item 21.12 To discuss and approve to offer NPTEL/SWAYAM based twelve weeks course and transfer the credit /grade earned as open elective.**

The Academic Council authorized Chairman, Academic Council to decide evaluation method for course offered by NPTEL.

*The Academic Council approved to offer NPTEL/SWAYAM based twelve weeks course and transfer the credit /grade earned as open elective.*



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**Item 21.13 To discuss and approve to appointment of external for practical examination to be done in alternate semester excluding project/ seminar**

**The Academic Council approved to appointment of external for practical examination to be done in alternate semester excluding project/ seminar.**

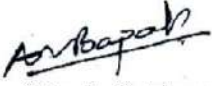
**Item 21.14 Any other matter with the permission of the Chair**

- **Examination Manual 2019-20**  
The Controller of Examinations informed Academic Council that Examination Manual 2019-20 is published.
- **Industry Conclave**  
The Academic Council suggested to conduct open house / industry conclave activities to increase of industry interaction .
- **Change in Nomenclature**  
The Academic Council suggested to send request letter regarding change in nomenclature to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur for following programmes
  1. Computer Technology to Computer Science and Engineering.
  2. Electronics Engineering to Electronics and Communication Engineering.
- **Classroom teaching**  
The Academic Council suggested to give more focus on classroom teaching.
- **5 year Plan**  
The Academic Council congratulated YCCE team for preparing detailed 5 year plan.

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

The meeting concluded with thanks to the Chair.

Date: 28.08.2019

  
(Dr. A.V. Bapat)  
Member Secretary





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**YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING**

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Hingna Road, Wanadongri, Nagpur-411 110.

Academic Council 2018-21

21<sup>st</sup> Meeting 24<sup>th</sup> August 2019

SN	MEMBERS	Affiliation	Signature
1	Dr. U.P. Waghe, Chairman	Professor in Civil Engg, YCCE, Nagpur; and Principal	
2	Dr. Rajesh Pande	Principal, Shri Ramdeobaba College of Engineering and Management, Ramdeo Tekdi, Gittikhadan, Katol Road, Nagpur	
3	Dr. Hemant Hajare	ITM College of Engineering, Behind Madhi Mandir, Ghorpad Road, Tah. Kamptee, Dist. Nagpur	
4	Dr. N.G. Bawane	Principal, Jhulelal Institute of Technology, Nagpur.	Leave of Ab.
5	Prof. Dr. N.C. Siva Prakash	Professor, Department of Instrumentation and Applied Physics, Indian Institute of Science, Bangalore 560 012	
6	Mr. Sameer Bendre	Chief People Officer, Persistant System Ltd., Nagpur	
	Mr. Milind Kank	Managing Director, Yeshshree Industries Ltd., Aurangabad	Leave of Ab.
8	Mr. Priyadarshan Kshirsagar	Head Business (IT), Tata Motors Ltd., Pune	Leave of Ab.
9	Dr. S.R. Khandeshwar	Head, Dept of Civil Engg, YCCE, Nagpur	
10	Dr. Sharad S. Chaudhary	Head, Dept of Mech Engg, YCCE, Nagpur	
11	Dr. B.Y. Bagde (R. M. Moharil)	Head, Dept of Electrical Engg, YCCE, Nagpur	
12	Dr. P.T. Karule	Head, Dept of Electronics Engg, YCCE, Nagpur	
13	Dr. M.S. Narlawar	Head, Dept of Eletronics and Telcomm, YCCE, Nagpur	
14	Dr. Mrs. G.M. Dhopavkar	Head, Dept of Computer tech, YCCE, Nagpur	
15	Dr. R.C. Dharmik	Head, Dept of Information Tech, YCCE, Nagpur	
16	Dr. Mrs. Manjusha P. Gandhi	Head, Dept. of Mathematics and Humanities, YCCE, Nagpur	
17	Dr. J.R. Ghulghule	Head, Physics, YCCE, Nagpur	
18	Dr. Mrs. Jyoti V. Miskin	Head, Dept of Chemistry, YCCE, Nagpur	
19	Dr. P.K. Dakhole	Registrar, YCCE	Leave of Ab.
20	Dr. A.R. Bhagat Patil	Asso. Professor in Computer Technology, YCCE, Nagpur; and Dean (P&D)	
21	Prof. D.R. Raut	Associate Professor in Civil Engg, YCCE, Nagpur; and Controller of Examinations	
22	Dr. M.M. Raghuvanshi	Professor in Information Technology, YCCE, Nagpur; and Chairman of Result Review & Moderation Committee	
23	Dr. A.M. Pande (Invitee)	Professor in Civil Engg, YCCE, Nagpur; and Director (R&D)	
24	Dr. A.V. Patil (Invitee)	Professor in Civil Engg, YCCE, Nagpur; and Chairman of Self Assessment of Autonomy	
25	Prof. Aniket P. Munshi (Invitee)	A.P. in Electrical Engg, YCCE, Nagpur	
26	Dr. A.V. Bapat, Member Secretary	Professor in Electronics Engineering, YCCE, Nagpur; and Dean Academic Matters	





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**Academic Council 2018-21**

22<sup>nd</sup> Meeting 14<sup>th</sup> March 2020

SN	MEMBERS	Affiliation	Signature
1	Dr. U.P. Waghe, Chairman	Professor in Civil Engg, YCCE, Nagpur; and Principal	
2	Dr. Rajesh Pande	Principal, Shri Ramdeo Baba College of Engineering and Management, Ramdeo Tekdi, Gittikhadan, Katol Road, Nagpur	
3	Dr. Hemant Hajare	ITM College of Engineering, Behind Madhi Mandir, Ghorpad Road, Tah. Kamptee, Dist. Nagpur	
4	Dr. N.G. Bawane	Principal, Jhulelal Institute of Technology, Nagpur.	
5	Prof. Dr. N.C. Siva Prakash	Professor, Department of Instrumentation and Applied Physics, Indian Institute of Science, Bangalore 560 012	
6	Mr. Sameer Bendre	Chief People Officer, Persistent System Ltd., Nagpur	
7	Mr. Milind Kank	Managing Director, Yeshshree Industries Ltd., Aurangabad	
8	Mr. Priyadarshan Kshirsagar	Head Business (IT), Tata Motors Ltd., Pune	
9	Dr. S R. Khandeshwar	Head, Dept of Civil Engg, YCCE, Nagpur	
10	Dr. Sharad S. Chaudhary	Head, Dept of Mech Engg, YCCE, Nagpur	
11	Dr. Mrs. S. P. Adhau	Head, Dept of Electrical Engg, YCCE, Nagpur	
12	Dr. P.T. Karule	Head, Dept of Electronics Engg, YCCE, Nagpur	
13	Dr. M.S. Narlawar	Head, Dept of Eletronics and Telcomm, YCCE, Nagpur	
14	Dr. Mrs. G.M. Dhopavkar	Head, Dept of Computer Tech, YCCE, Nagpur	
15	Dr. R.C. Dharmik	Head, Dept of Information Tech, YCCE, Nagpur	
16	Dr. Mrs. Manjusha P. Gandhi	Head, Dept. of Mathematics and Humanities, YCCE, Nagpur	
17	Dr. J.R. Ghulghule	Head, Physics, YCCE, Nagpur	
18	Dr Mrs. P. U. Waghe	Head, Dept of Chemistry, YCCE, Nagpur	
19	Dr. P.K. Dakhole	Registrar, YCCE, Nagpur	
20	Dr. A.R. Bhagat Patil	Asso. Professor in Computer Technology, YCCE, Nagpur and Dean (P&D)	
21	Prof. D.R. Raut	Associate Professor in Civil Engg, YCCE, Nagpur; and Controller of Examinations	
22	Dr. R.D. Thakare (Invitee)	Professor in Electrical Engg, YCCE, Nagpur	
23	Dr. A.M. Pande (Invitee)	Professor in Civil Engg, YCCE, Nagpur; and Director (R&D)	
24	Dr. A.V. Patil (Invitee)	Professor in Civil Engg, YCCE, Nagpur; and Chairman of Self Assessment of Autonomy	
25	Prof. Aniket P. Munshi (Invitee)	A.P. in Electrical Engg, YCCE, Nagpur	
26	Dr. A.V. Bapat. Member Secretary	Professor in Electronics Engineering, YCCE, Nagpur; and Dean Academic Matters	



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## Minutes of 22<sup>nd</sup> meeting of Academic Council held on 14<sup>th</sup> March 2020

The 22<sup>nd</sup> meeting of Academic Council was held on 14<sup>th</sup> March 2020 at 11.00 am in the Board Room of YCCE, Nagpur. The following members attended the meeting.

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

Leave of Absence granted to			
1	Dr. N.G. Bawane, Principal, Jhulelal Institute of Technology, Nagpur	3	Dr. P.K. Dakhole, Registrar, YCCE
2	Mr. Milind Kank, Managing Director, Yeshshree Industries Ltd., Aurangabad		





**Item 22.01: Welcome of New members**

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

**Item 22.02 To confirm the Minutes of 21st Meeting of the Academic Council and consider the action taken report.**

*The Academic Council unanimously approved the minutes of 21<sup>st</sup> meeting of Academic Council held on 24 August 2019 and Action Taken Report thereof.*

**Item 22.03 To discuss and approve the suggestions of Board of Studies for changes in Schemes of Examination and course contents of Autonomous 2014 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	ME2256: Mechanical Measurement and Metrology
	2018	4	ME2252: Engineering Thermodynamics
	2014	7	ME1410: - Renewable Energy Systems
	2014	7	ME1469: Refrigeration & Cryogenics
Electrical Engg.	2014	7	EL1427: PE II: Artificial Intelligence based Systems
Electronic & Telecomm. Engg.	2018	4	ET2205 : Electronic Measurement and Instrumentation
	2018	4	ET2351: Digital signal Processing
Computer Tech.	2014	7	CT1451: Artificial Intelligence
Information Tech.	2018	4	IT2201: Digital Circuits and Microprocessors
	2018	4	IT2207: Computer Architecture and Microprocessors

**PG**

Branch	SoE	Sem	Course Code & Name
CAD/CAM	2019	1	ME3911: Product Design and Development



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

Branch	SoE	Sem	Course Code & Name
Electrical Engg.	2014	7	EL1427 - PE II: Artificial Intelligence based Systems - Deep Learning using Python Dr. S.Lovelyn Rose Dr. L.Ashok Kumar, Dr. D Karthika Renuka Wiley
Electronics Engg.	2014	7	Design of Analog CMOS Integrated Circuits 1st Edition by Behzad Razavi Publisher: McGraw-Hill Education; 1 edition
Electronic & elecomm. Engg.	2018	5	ET 2303: Fields and Radiating systems - "Antennas" by John D.Krauss publisher McGraw - Hill International edition
	2018	3	ET 2201: Electronics Devices and Circuits - "OP-AMPS and Linear Integrated Circuits" by Ramakant Gayakwad
Computer Tech.	2014	7	CT1451: Artificial Intelligence - A Modern Approach" by Russell, Stuart J.; Norvig, Peter as a text book for course CT 1451 Artificial Intelligence
Information Tech.	2014	5	IT1318: Design & Analysis of Algorithms - Algorithm Design by Jon Kleinberg & Eva Tardos (Pearson)

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

Branch	SoE	Sem	Course Code & Name
Electrical Engg.	2014	7	EL1417 Lab.: Switchgear and Protection
Electronics Engg.	2014	8	EE1420 Lab: Analog VLSI Design

*Academic Council suggested to review of taking MSE-I, II and III after assessing the effect of present system.*

*Mr. Priyadarshan Kshirsagar Member of Academic Council suggested that he can help in framing curriculum for course battery management system as elective. This course is very important in view of electric vehicle.*

*It was suggested to incorporate course based on cloud computing as professional elective for Electronics Engineering and Electronics Telecommunication Engineering, also a course on Data Science and course on safety can be offered as open elective.*

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

**Item 22.04 To discuss and finalize the changes, if any, in Academic Regulations.**

No changes in Academic Regulations.



- Item 22.05** To discuss and approve the report of Controller of Examinations for Odd 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 Odd Term of 2019-20.*

- Item 22.06** To discuss and approve the changes, if any, in Examination Manual.

No changes in Examination Manual

- Item 22.07** To discuss and approve the report of Dean (Academic Matters) for Odd 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 Odd Term of 2019-20.*

- Item 22.08** To discuss and approve the report of Research Centre Activities for Odd Term 2019-20.

The report of the Research Centre Activities was put before the members and discussed. It was suggested to present details of publication of faculty members in report.

*The report Research Centre Activities for Odd Term 2019-20 was approved by the Academic Council.*

*A policy document 2019-20, No NYSS/CEO/2019-20/ dated 10.09.2018 which is revised policy document 2018, No NYSS/CEO/2018-19/ dated 15.09.2018 "Promotion of code of ethics, Academic Integrity and prevention of plagiarism in the institution" which aims at assessment of academic and research work by the faculty and students of the institution, was discussed with reference to the revision in the academic council and the same was unanimously approved.*

- Item 22.9** To discuss and approve the report of the Training and Placement Office for Odd Term 2019-20

The report of the Training and Placement Office was put before the members and discussed. Academic Council suggested to improve quality of placement and increase number of paid internships.





*The report of Training and Placement Office for Odd Term 2019-20 was approved by the Academic Council*

**Item 22.10 To discuss and approve the Annual report of IQAC (Internal Quality Assurance Cell) for session 2018-19**

The report of the IQAC (Internal Quality Assurance Cell) for session 2018-19 was put before the members and discussed.

*The report of IQAC (Internal Quality Assurance Cell) for session 2018-19 was approved by the Academic Council*

**Item 22.11 To discuss and approve -modification in SoE 2018 of 7<sup>th</sup> and 8<sup>th</sup> Sem to group A & B**

The issue was discussed.

*The Academic Council approved modification in SoE 2018 of 7<sup>th</sup> and 8<sup>th</sup> Semester to group A & B.*

**Item 22.12 To discuss and approve --Closure of PG Programme MTech (Electronics Engg)**

The issue was discussed.

*The Academic Council approved Closure of PG Programme M.Tech. in Electronics Engineering*

**Item 22.13 To discuss and approve --Increase in Intake in BE Information Technology from 60 to 120.**

The issue was discussed.

*The Academic Council approved Increase in Intake in BE Information Technology from 60 to 120*

**Item 22.14 To discuss and approve --merger of Rajiv Gandhi College of Engineering and Research with YCCE.**

The issue was discussed.

*The Academic council recommends the merger of the of Rajiv Gandhi College of Engineering and Research with YCCE to BOM to take a decision*





**Item 22.15 In view of merger preparation of SoE RTMNU and its absorption**

The issue was discussed.

*The Academic Council authorized Chairman, Academic Council to take appropriate decision in this regard.*

**Item 22.16 To discuss and approve – Transfer of credits for NPTEL course (12 weeks) completed successfully before equivalent open/professional electives are offered to regular students.**

Issue was discussed whether college should also evaluate the student for credit transfer.

*The Academic Council authorized Chairman, Academic Council to take appropriate decision in this regard.*

**Item 22.17 Any other matter with the permission of the Chair**

- Dr. R. D. Thakare as member of Academic Council in place of Dr. M. M. Raghuwanshi


*The Academic Council recommended appointment of Dr. R.D. Thakare as Member of Academic Council in place of Dr. M.M. Raghuwanshi in category of 4 teachers of the college representing different categories of teaching staff by rotation on the basis of seniority of service in the college.*

- Mr. Milind Kank, Member of Academic Council replacement.

*Mr. Milind Kank, Member of Academic Council has expressed his inability to continue as member of Academic Council. Academic Council accepted his request and authorized Chairman Academic Council to appoint new member in his place.*

As there was no other point for the discussion, the meeting was adjourned.  
The meeting concluded with thanks to the Chair.

Date: 17.03.2020

  
(Dr. A.V. Bapat)  
Member Secretary

\*\*\*\*\*

**Details of program syllabus**

**revision in last 5 years**





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## DEPARTMENT OF CIVIL ENGINEERING

### NOTICE

{BoS}

Date:- 15<sup>th</sup> July 2019

Meeting No 24 of Board of Studies of Civil Engineering department is scheduled on **Wednesday 17<sup>th</sup> July 2019 at 02:00 p.m.** in Departmental library.

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

### Agenda Points

**Item No. 24.01**

Welcome of new members

**Item No. 24.02**

Installation of member Secretary

**Item No. 24.03**

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

**Item No. 24.04**

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. 24.05**

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. 24.06**

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. 24.07**

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. 24.08**

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

**Item No. 24.09**

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

**Item No. 24.10**

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 2019-20.

**Item No. 24.11**

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 2019-20.

**Item No. 24.12**

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 2019-20.

**Item No. 24.13**

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. 24.14**

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

**Item No. 24.15**

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. 24.16**

Any other matter with the permission of the Chair.

Prof. Ms. C.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		20	Ms. Amruta Arun Yadav	
2	Dr. Anant Manohar Pande		21	Ms. Sangita Shivcharan Meshram	
3	Dr. Santanu Ramkrishna Khandeshwar		22	Mr. Prashant Baban Pande	
4	Dr. Sudhir Vasantrao Ambekar		23	Mr. Atul Sambhuji Kurzekar	
5	Dr. Abhay Vinayakrao Patil		24	Mr. Vivek Dnyandeo Jayale	
6	Dr. Vilas Ganuji Meshram		25	Mr. Harshal Madhukar Warade	
7	Dr. Ajay Ramdas Gajbhiye		26	Ms. Pallavi Shalikram Chakole	
8	Mr. Rajendra Sureshbabu Deotale		27	Ms. Snehal Karunkumar Kamble	
9	Dr. Rajendra Rupraoji Dighade		28	Mr. Sourabh Mahesh Amrodiya	
10	Mr. Sanjay Manohar Waghmare		29	Mr. Sanket Gajanan Kalamkar	
11	Mr. Bhupesh Purshottam Nandurkar		30	Mr. Sagar Wasudeo Dhengare	
12	Dr. Sanjay Padmakar Raut		31	Ms. Monali Rewashankar Wagh	
13	Ms. Vaishali Nilesh Mendhe		32	Mr. Yogesh Prabhakar Kherde	
14	Ms. Charuta Subhash Waghmare		33	Ms. Sneha Gowardhan Hirekhan	
15	Mr. Khalid Shamim Ansari		34	Mr. Rajesh Madhukar Bhagat	
16	Mr. Harshal Rameshrao Nikhade		35	Ms. Sujata Dashrath Wankhede	
17	Mr. Jayant Manohar Raut		36	Ms. Pallavi Anil Deotale	
18	Mr. Dhiraj Giridharilal Agrawal		37	Mr. Nikesh Dewanand Bele	
19	Mr. Pawan Keshaorao Hinge		40		

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





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## DEPARTMENT OF CIVIL ENGINEERING

### Circular {BoS}

The 24<sup>th</sup> Meeting of Board of Studies of Civil Engineering is scheduled as per following schedule.

**Date** :- Wednesday 17<sup>th</sup> July 2019

**Time** :- 02:00 p.m.

**Venue** :- Department Library

The Following staff members attended the meeting.

S.N.	Name	Signature	S.N.	Name	Signature
1	Dr. Udaykumar P. Waghe		20	Ms. Amruta Arun Yadav	
2	Dr. Anant Manohar Pande		21	Ms. Sangita Shivcharan Meshram	
3	Dr. Santanu Ramkrishna Khandeshwar		22	Mr. Prashant Baban Pande	
4	Dr. Sudhir Vasantrao Ambekar		23	Mr. Atul Sambhuji Kurzekar	
5	Dr. Abhay Vinayakrao Patil	(FB)	24	Mr. Vivek Dnyandeo Jayale	
6	Dr. Vilas Ganuji Meshram		25	Mr. Harshal Madhukar Warade	
7	Dr. Ajay Ramdas Gajbhiye		26	Ms. Pallavi Shaligram Chakole	
8	Mr. Rajendra Sureshbabu Deotale		27	Ms. Snehal Karunkumar Kamble	(FB)
9	Dr. Rajendra Rupraoji Dighade		28	Mr. Sourabh Mahesh Amrodiya	
10	Mr. Sanjay Manohar Waghmare		29	Mr. Sanket Gajanan Kalamkar	
11	Mr. Bhupesh Purshottam Nandurkar		30	Mr. Sagar Wasudeo Dhengare	
12	Dr. Sanjay Padmakar Raut		31	Ms. Monali Rewashankar Wagh	
13	Ms. Vaishali Nilesh Mendhe		32	Mr. Yogesh Prabhakar Kherde	
14	Ms. Charuta Subhash Waghmare		33	Ms. Sneha Gowardhan Hirekhan	
15	Mr. Khalid Shamim Ansari		34	Mr. Rajesh Madhukar Bhagat	
16	Mr. Harshal Ramesh Rao Nikhade		35	Ms. Sujata Dashrath Wankhede	
17	Mr. Jayant Manohar Raut		36	Ms. Pallavi Anil Deotale	
18	Mr. Dhiraj Giridharilal Agrawal		37	Mr. Nikesh Dewanand Bele	(FB)
19	Mr. Pawan Keshao Rao Hinge		40		

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



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## DEPARTMENT OF CIVIL ENGINEERING

### Minutes of 24<sup>TH</sup> BoS Meeting dated on 17<sup>th</sup> July 2019

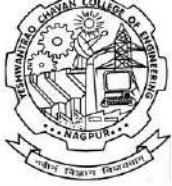
- **24<sup>TH</sup> Meeting of BoS of Civil engineering was held on Wednesday, 17<sup>th</sup> July 2019. It was chaired by Dr. S.R. Khandeshwar, Chairman BoS. Following members were present.**

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

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

1. Dr. V.S. Landge
2. Dr. Abhay Vinayakrao Patil
3. Ms. Snehal Karunkumar Kamble
4. Mr. Nikesh Dewanand Bele





## DEPARTMENT OF CIVIL ENGINEERING

### Minutes of Meetings

#### Item No. 24.01

##### Welcome of new members

The Chairman first welcomed all BoS members.

Dr. S.R. Khandeshwar welcomed Dr. N. S. Raman, Director & HoD, EIA Division, NEERI, Nagpur.

Dr.VG.Meshram welcomed Dr. D.H. Lataye, Professor, Department of Civil Engineering, VNIT, Nagpur.

Er. Suneel Voditel, Director, Skyline Expert from Industry was welcomed by Dr. A.M. Pande and Er.

Satish Raipure, Alumini & Director, Raipure & Associates was welcomed by Dr. A.R. Gajbhiye.

New BoS members Ms.P.A.Deotale and Ms.S.D.Wankhede were welcomed by all BoS members after introduction by the chairman .

#### Item No. 24.03

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

The minutes of previous meeting no. 23 held on 12/01/2019 were already circulated to all members. Since there was no comment from any member, the chairman requested to accept the minutes. Dr. S.R.Khandeshwar proposed the minutes to be accepted . Dr. A.R. Gajbhiye seconded it. The minutes were then accepted.

#### Item No. 24.04

##### 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 finally it was unanimously resolved that the present scheme of examination continued to be adopted for Autonomous 2014 & Autonomous 2018.

#### Item No. 24.05

##### 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.

Dr.A.V.Patil suggested minor change in the subject CV 1341 OE-II Elements of Earthquake Engineering. The correction will be sent to Dean (academic matters) for confirmation and finalization of syllabus. Dr.D.H.Lataye, BoS expert suggested one topic to be added in CV1342 OE II: Air Pollution and Solid Waste Management. The correction will be sent to Dean (academic matters) for confirmation and finalization of syllabus.



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Course Code & Course Name	Suggestions by Experts and Course Teachers
CV2251 Concrete Technology	Introduction to Ready mix, pumped and self-compacting concrete added in unit -II
CV2253 Surveying	Area calculation by co-ordinate added in unit -iv
CV2257 Transportation Engineering	Drainage, shoulders, maintenance & repairs added in IV semester
CV1310 Fluid Mechanics –II	Energy loss in hydraulic jump added in unit 4
CV 1341 OE-II Elements of Earthquake Engineering	Seismic waves to be deleted from Unit I and shifted to Unit II Recording Earthquakes to be deleted from Unit III and added in Unit II
CV1342 OE II: Air Pollution and Solid Waste Management.	Introduction to Hazardous Waste added in Unit I
CV1421 Estimating & Costing	Mass excavation and mass haul curves added in unit IV

**PG Structure Engineering**

Course Code and Course Name	Suggestions by Experts and course teacher
CV3921 – PE-I : Prestressed Concrete	Crack-width calculations is added in Unit V
CV3922 – PE-I Smart Structures and Applications	Behavior of smart materials is added in Unit I
CV3925 – PE-II : RC Bridge Design	Behavior Retaining wall is added in Unit IV
CV3926 – PE-III : Plastic Analysis & Design of Steel Structure	Design of continuous beams added in Unit V
CV3917 - Theory of Plates and Shells	D-K-J theory is added in Unit V

**PG Environmental Engineering**

Course Code and Course Name	Suggestions by Experts and course teacher
CV3977 - Air Quality Management	Control of air pollution from automobiles is added in Unit IV
CV3978 - Rural Water Supply and Sanitation	Low cost treatment is added in Unit III
CV3982 - PE-I : Advanced Water Treatment	Kinetics, Applications added in Unit IV.





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## DEPARTMENT OF CIVIL ENGINEERING

### Item No. 24.06

**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.

BoS experts suggested new books/ Reference Books/ Literature Sources.

S.N.	Semester	Course Code & Name
1	III	CV 2207 Water Supply Engineering
2	V	CV1315 PE-I Water Treatment
3	VII	CV 1441 Environmental Engineering-II

The correction will be sent to Dean (academic matters) for confirmation and finalization of syllabus.

### Item No. 24.07

**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 in Autonomous 2014 & Autonomous 2018 Schemes of Undergraduate and Post graduate programs of Undergraduate and Post graduate programs.

No change in the current syllabus of laboratory courses were proposed by any members.

### Item No. 24.08

**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.

### Item No. 24.09

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

It has been decided to run the course CV2251 Concrete Technology of IV Semester -Even term 2019-20 as a MOOC course.

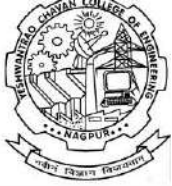
### Item No. 24.10

**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 2019-2020.**

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 2019- 2020** in the month of August. (Sub-committee meeting)

### Item No. 24.11

**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 2019-2020.**



## DEPARTMENT OF CIVIL ENGINEERING

It was decided to finalized panel of paper setters, Moderators and Valuers for the various theory courses at Post Graduate programs in End Semester Examination of **Odd Term 2019- 2020** in the month of August (Sub-committee meeting)

### **Item No. 24.12**

**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 2019-2020.**

It was decided to finalized 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 2019-2020** in the month of August (Sub-committee meeting)

### **Item No. 24.13**

**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 IV SEM.**

Validation of Electronic question bank for VI semester is done and concerned faculty were asked to prepare solutions to all questions.

Course teacher of VII & VIII Sem has been asked to prepare Electronic question bank of their concerned subjects.

### **Item No. 24.14**

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

All members were asked to suggest the changes/additions/deletions/alterations in the existing Evaluation Process like examination paper pattern, use of question banks etc. for theory courses, conduct of examinations for non-theory courses, seminars, Industrial case study, Project (including mini), etc.

Prof.D.G.Agrawal intreated for new question paper pattern for the subject PE-IV Matrix Analysis of structure. The request has been accepted by Chairman & will be proceeded for confirmation to the academic council .

### **Item No. 24.15**

**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 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. 24.16**

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

1.The 8<sup>th</sup> CDW was conducted on 4<sup>th</sup> May 2019 for the finalization of the syllabus of 5<sup>th</sup> and 6<sup>th</sup> semester subjects. Expert from Water Resources group suggested to add Engineering Hydrology as a core subject in the scheme. BoS Experts too proposed it. It will be conveyed to the Academic council for further approval .

2. As per five year plan of YCCE,DAM asked to prepare the syllabus of one industry aligned subjects as an elective. It has been decided to frame a subject in consultation with BoS Experts Dr.N.S.Raman ( for Environmental Engineering) , Er. Suneel Voditel and Er.Satish Raipure(for Structural Engineering).

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





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## DEPARTMENT OF CIVIL ENGINEERING

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

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



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## DEPARTMENT OF CIVIL ENGINEERING

### NOTICE

{BoS}

Date:- 11<sup>th</sup> January 2020

Meeting No 25 of Board of Studies of Civil Engineering department is scheduled on **Saturday, 18<sup>th</sup> January 2020 at 12:30 p.m.** in Departmental library.

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

### Agenda Points

**Item No. 25.01**

Welcome of new members

**Item No. 25.02**

Installation of member Secretary

**Item No. 25.03**

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

**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.

**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.

**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.

**Item No. 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..

**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.

**Item No. 25.09**

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

**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 Even Term 2019-20.

**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 Even Term 2019-20.

**Item No. 25.12**

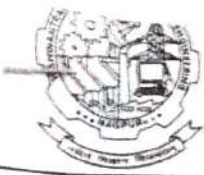
To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination Even Term 2019-20.

**Item No. 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).





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## DEPARTMENT OF CIVIL ENGINEERING

**Item No. 25.14**

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. 25.15**

Any other matter with the permission of the Chair.

Prof. Ms. C.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		20	Ms. Amruta Arun Yadav	
2	Dr. Anant Manohar Pande		21	Ms. Sangita Shivcharan Meshram	
3	Dr. Santanu Ramkrishna Khandeshwar		22	Mr. Prashant Baban Pande	
4	Dr. Sudhir Vasant Rao Ambekar		23	Mr. Atul Sambhuji Kurzekar	
5	Dr. Abhay Vinayakrao Patil		24	Mr. Vivek Dnyandeo Jayale	
6	Dr. Vilas Ganuji Meshram		25	Mr. Harshal Madhukar Warade	
7	Dr. Ajay Ramdas Gajbhiye		26	Ms. Pallavi Shaligram Chakole	
8	Mr. Rajendra Sureshbabu Deotale		27	Ms. Snehal Karunkumar Kamble	
9	Dr. Rajendra Rupraoji Dighade		28	Mr. Sourabh Mahesh Amrodiya	
10	Mr. Sanjay Manohar Waghmare		29	Mr. Sanket Gajanan Kalamkar	
11	Mr. Bhupesh Purshottam Nandurkar		30	Mr. Sagar Wasudeo Dhengare	
12	Dr. Sanjay Padmakar Raut		31	Ms. Monali Rewashankar Wagh	
13	Ms. Vaishali Nilesh Mendhe		32	Mr. Yogesh Prabhakar Kherde	
14	Ms. Charuta Subhash Waghmare		33	Ms. Sneha Gowardhan Hirekhan	
15	Mr. Khalid Shamim Ansari		34	Mr. Rajesh Madhukar Bhagat	
16	Mr. Harshal Ramesh Rao Nikhade		35	Ms. Pallavi Anil Deotale	
17	Mr. Jayant Manohar Raut		36	Ms. Anuja Anil Pawar	
18	Mr. Dhiraj Giridharilal Agrawal		37	Ms. Sarita S. Hame	
19	Mr. Pawan Kesharao Hinge				

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



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## DEPARTMENT OF CIVIL ENGINEERING

### Circular {BoS}

The 25<sup>th</sup> Meeting of Board of Studies of Civil Engineering is scheduled as per following schedule.

**Date** :- Wednesday 18<sup>th</sup> January 2020

**Time** :- 12:30 p.m.

**Venue** :- Department Library

The Following staff members attended the meeting.

S.N.	Name	Signature	S.N.	Name	Signature
1	Dr. Udaykumar P. Waghe		20	Ms. Amruta Arun Yadav	
2	Dr. Anant Manohar Pande		21	Ms. Sangita Shivcharan Meshram	
3	Dr. Santanu Ramkrishna Khandeshwar		22	Mr. Prashant Baban Pande	
4	Dr. Sudhir Vasantrao Ambekar		23	Mr. Atul Sambhuji Kurzekar	
5	Dr. Abhay Vinayakrao Patil		24	Mr. Vivek Dnyandeo Jayale	
6	Dr. Vilas Ganuji Meshram		25	Mr. Harshal Madhukar Warade	
7	Dr. Ajay Ramdas Gajbhiye	(AB)	26	Ms. Pallavi Shalikram Chakole	
8	Mr. Rajendra Sureshbabu Deotale	(AB)	27	Ms. Snehal Karunkumar Kamble	
9	Dr. Rajendra Rupraoji Dighade		28	Mr. Sourabh Mahesh Amrodiya	
10	Mr. Sanjay Manohar Waghmare		29	Mr. Sanket Gajanan Kalamkar	
11	Mr. Bhupesh Purshottam Nandurkar		30	Mr. Sagar Wasudeo Dhengare	
12	Dr. Sanjay Padmakar Raut		31	Ms. Monali Rewashankar Wagh	
13	Ms. Vaishali Nilesh Mendhe		32	Mr. Yogesh Prabhakar Kherde	
14	Ms. Charuta Subhash Waghmare		33	Ms. Sneha Gowardhan Hirekhan	
15	Mr. Khalid Shamim Ansari		34	Mr. Rajesh Madhukar Bhagat	
16	Mr. Harshal Rameshrao Nikhade		35	Ms. Pallavi Anil Deotale	
17	Mr. Jayant Manohar Raut		36	Ms. Savitri Suresh Harne	
18	Mr. Dhiraj Giridharilal Agrawal		37	Ms. Anuja Anil Pawar	
19	Mr. Pawan Keshaorao Hinge		38		

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

*Vishant*





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## DEPARTMENT OF CIVIL ENGINEERING

### Minutes of 25<sup>TH</sup> BoS Meeting dated on 18<sup>th</sup> January 2020

- **25<sup>TH</sup> Meeting of BoS of Civil engineering was held on Saturday, 18<sup>th</sup> January 2020. It was chaired by Dr. S.R. Khandeshwar, Chairman BoS. Following members were present.**

Name	Name	Name
Dr. N.S. Raman	Mr. Bhupesh Purshottam Nandurkar	Mr. Vivek Dnyandeo Jayale
Dr. D.H. Lataye	Dr. Sanjay Padmakar Raut	Ms. Pallavi Shalikram Chakole
Er. Satish Raipure	Ms. Vaishali Nilesh Mendhe	Ms. Snehal Karunkumar Kamble
Mr. Suneel Voditel	Ms. Charuta Subhash Waghmare	Mr. Sourabh Mahesh Amrodiya
Dr. V.S. Landge	Mr. Khalid Shamim Ansari	Mr. Sanket Gajanan Kalamkar
Dr. Udaykumar P. Waghe	Mr. Harshal Rameshrao Nikhade	Mr. Sagar Wasudeo Dhengare
Dr. Anant Manohar Pande	Mr. Jayant Manohar Raut	Ms. Monali Rewashankar Wagh
Dr. Santanu Ramkrishna Khandeshwar	Mr. Dhiraj Giridharilal Agrawal	Mr. Yogesh Prabhakar Kherde
Dr. Sudhir Vasantrao Ambekar	Mr. Pawan Keshaorao Hinge	Ms. Sneha Gowardhan Hirekhan
Dr. Abhay Vinayakrao Patil	Ms. Amruta Arun Yadav	Mr. Rajesh Madhukar Bhagat
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Dr. Rajendra Rupraoji Dighade	Mr. Prashant Baban Pande	Ms. Anuja Anil Pawar
Mr. Sanjay Manohar Waghmare	Mr. Atul Sambhuji Kurzekar	Ms. Sarita S. Harne

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

- Dr. Ajay Ramdas Gajbhiye
- Mr. Rajendra Sureshbabu Deotale

- Mr. Harshal Madhukar Warade



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## DEPARTMENT OF CIVIL ENGINEERING

### Minutes of Meetings

#### Agenda No. 25.01 Welcome of new members

The Chairman first welcomed all BoS members.

Dr. S.R. Khandeshwar welcomed Dr. N. S. Raman, Director & HoD, EIA Division, NEERI, Nagpur and Dr. D.H. Lataye, Professor, Department of Civil Engineering, VNIT, Nagpur.

Er. Suneel Voditel, Director, Skyline Expert from Industry was welcomed by Dr. A.V.Patil and Er. Satish Raipure, Alumini & Director, Raipure & Associates was welcomed by Prof.B.P.Nandurkar.

Dr.S.V.Ambekar welcomed Dr.V.S.Landge Professor, Department of Civil Engineering, VNIT, Nagpur.

New BoS member, Ms.Sarita Harne was welcomed by all BoS members after introduction by the chairman .

#### Agenda No. 25.03

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

The minutes of previous meeting no. 24 held on 17/07/2019 were already circulated to all members. Since there was no comment from any member, the chairman requested to accept the minutes. Dr. S.R.Khandeshwar proposed the minutes to be accepted . Dr. A.V.Patil seconded it. The minutes were then accepted.

#### Agenda 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.

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.

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

For the SoE Autonomous 2018 of the Undergraduate Program , revision for some of courses of V, VI and VII were suggested by faculty. The suggestions were:

S. N.	Semester	Course Name	Revision	Remark
1	V	PE-I Advance RCC Lab: PE-I Advance RCC	PE-I Water Treatment Lab: PE-I Water Treatment	Since pre-requisite core course been in the same semester, it has been decided to shift the course in VII semester as PE- III.
2	V	Lab: Reinforced Concrete Structures	Lab: Advanced Structural Analysis	Students will be benefitted with the software STADDPRO in the newly suggested laboratory course.
3	V	PE-I Water Transmission & Distribution System Lab: PE-I Water Transmission & Distribution System		Shifted to VI semester as PE-II
4	VI	Lab: Building Design Drawing	Credit reduced by	1 Credit is transferred to newly added lab.course Hydraulic Engineering





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			1(Earlier it was 2)
5	VI	Lab: Hydraulic Engineering	Newly added Lab.course with credit of 1
6	VII	Water Resources Engineering	Hydrology and Water Resources Engineering
7	VIII	Few newly added Professional Electives (Mentioned in the SoE 2018)	

Agenda 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.**

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.

Dr.Anant M.Pande, proposed Research Methodology as an Open Elective course for Undergraduate Program and Structural Engineering Practices as an Industry linked Audit course for Postgraduate M.Tech.(Structural engineering).

Prof.V.D.Jayale after discussion with the BoS Expert, introduced a topic" Introduction to Pre-Engineered Building" in the 6<sup>th</sup> unit of the course Steel Structure of 6<sup>th</sup> semester of Scheme 2018. It has been proposed to offer Advanced survey,Advanced Concrete Technology and Geographic Information Systems as Professional Elective-I for V semester for the session Odd 20-21.

BoS experts approved the courses. The proposed courses will be sent to Dean (academic matters) for confirmation and finalization of syllabus.

**UG Civil Engineering**

Course Code	Course Name	Suggestions by Experts and course teachers
CV2201	Strength of Materials	Direct and bending stresses added in unit III.
CV2203	Geotechnical Engineering	Shear characteristics of sands and clays, stress paths, effective and total shear strength parameters added in Unit VI
CV2205	Fluid Mechanics	Dimension Analysis shifted to Hydraulic Engineering
CV2207	Water Supply Engineering	Standards of drinking water added in Unit -I
CV1301	Surveying -II	Study of photo theodolite and stereoscope. Added in unit V
CV1304	Transportation Engineering -I	Girder Launching operation systems added in Unit V
CV1325	OE I : Environmental Management	Development of action plans for critical environmental education programme added in unit IIII
CV1401	Water Resource Engineering	Economics of canal lining added in unit iii
CV1422	Transportation Engineering -II	Advances in air traffic control added in unit V
CV1441	Environmental Engineering -II	Monitoring methods added in unit VI

**PG Structural Engineering**

Course Code	Course Name	Suggestions by Experts and course teachers
CV3906	Design of Substructures and Foundations	beam on elastic foundation is added in Unit IV
CV3907	Earthquake and Wind Effects on Structures	Evolution of seismic risk in Unit II





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### PG Environmental Engineering

Course Code	Course Name	Suggestions by Experts and course teachers
CV3961 -	Environmental Chemistry and Microbiology	Kinetics of microbial growth is added in Unit VI.
CV3965 -	Municipal Water Treatment	Operational problems in sedimentation tank is added in Unit III
CV3977 -	Air Quality Management	Control of air pollution from automobiles is added in Unit IV
CV3978 -	Rural Water Supply and Sanitation	Low cost treatment is added in Unit III
CV3982 -	PE-I : Advanced Water Treatment	Kinetics, Applications added in Unit IV.

#### Agenda 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.**

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. 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.**

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.

Dr.R.R.Dighade submitted the list of experiments of the newly added Lab. Hydraulic Engineering course of VI semester.

#### Agenda No. 25.08

**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. 25.09

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

The course CV2251 Concrete Technology of IV Semester -Even term 2019-20 has been offered as a MOOC course.

#### Agenda 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 Even Term 2019-2020.**

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 2019- 2020** in





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the month of February. (Sub-committee meeting)

**Agenda 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 Even Term 2019-2020.**

It was decided to finalized panel of paper setters, Moderators and Valuers for the various theory courses at Post Graduate programs in End Semester Examination of **Even Term 2019- 2020** in the month of February. Sub-committee meeting)

**Agenda 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 Even Term 2019-2020.**

It was decided to finalized 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 2019-2020** in the month of February. (Sub-committee meeting)

**Agenda No. 25.13**

**Preparation of Electronic question Bank for VI Sem UG courses.**

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

Validation of Electronic question bank for VI semester is done and concerned faculty were asked to prepare solutions to all questions.

**Agenda No. 25.14**

**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.

**Agenda No. 25.15**

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

Detailed discussion were carried out about Mid Semester Examination pattern implemented presently. From the discussions, following points were observed,

1. Present system of three MSE is not good because students tend to remain absent in large numbers.

Due to these absentees, there is problem of

- a) low scoring in the exams
- b) casual approach by the students
- c) poor attainment of POs & COs.

Therefore present system must be modified.

2. The modified system would consist of Two MSE instead of Three exams.

3. First MSE would be based on first three units and would be conducted after 6/7 weeks of teaching is complete.

4. Second MSE would be based on last three units and would be conducted after last date of teaching.

5. Re-exam would not be carried out.

It was unanimously resolved to request Academic Council to consider this change in Mid Semester exam pattern.



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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





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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	
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9	Mr. Sanjay Manohar Waghmare		26	Ms. Snehal Karunkumar Kamble	
10	Mr. Bhupesh Purshottam Nandurkar		27	Mr. Sourabh Mahesh Amrodiya	
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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





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## Department of Mechanical Engineering

30/07/2019

### Minutes of BOS Meeting

The **twenty third meeting** of the Board of Studies in **Mechanical Engineering** is held on **Saturday 13<sup>th</sup> July 2019** in the **E-Class Room (ME-106) of Mechanical Engineering Department at 11:00 AM.**

**Minutes for the meeting are as follows:**

The meeting was attended by 33 members of BOS of Mechanical Engineering Department (List attached) and the following members, namely, Dr. Padole, Dr. Awari, Dr. Chiddarwar, Shri Santosh Umalkar, Dr. Kale, Prof. Bamnote, Dr, Giri, Prof. Tufail, Prof. Bodkhe and Prof. Gedam were granted leave of absence. The following business was transacted in the meeting.

Chairman, Board of Studies, Dr. Chaudhari offered welcome to all the members of BOS and requested The Member Secretary to start the proceedings of the BOS meeting.

The Member Secretary offered Welcome to all the members of BOS and started with the proceedings of 23<sup>rd</sup> BOS meeting.

#### **Item No. 23.01**

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

The minutes of the 22<sup>nd</sup> BOS meeting held on 12<sup>th</sup> January 2019 were read by the Member Secretary. The motion for confirmation of minutes was moved by Dr. Shrivastava, seconded by Dr. Kshirsagar and was accepted unanimously.

#### **Item No. 23.02**

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.

In the previous BOS meeting held on 12 January 2019, in item 22.02, it was intimated that the BOS has decided to introduce the subject – Control Systems Engineering as a core subject at sixth semester level in SOE 2018 As this was not considered in the Academic Council meeting minutes held on 02 March 2019, The BOS Mechanical Engineering is again sending it for inclusion in the next Academic Council meeting and hope for positive outcome.



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## Department of Mechanical Engineering

In the last BOS meeting, under item no. 22.15, the issue of introducing CAD as an additional compulsory subject (SOE 2018) was discussed and the same was referred to Academic Council for permission. This was also not included in the agenda of AC meeting of 02 march 2019. Hence the BOS Mechanical Engineering is again referring the issue to AC for permission, looking at the specific need of mechanical engineering students.

### Item No. 23.03

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.

In Autonomous 2018 Scheme, in the Subject Material Science and Metallurgy, in the last unit, it was proposed to add "Introduction to Composites, Polymers and NDT". This change was accepted unanimously. This is put up again for inclusion in agenda of Academic Council next meeting.

### Item No. 23.04

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

No changes proposed.

### Item No. 23.05

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

No changes proposed.

### Item No. 23.06

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

No changes proposed.

### Item No. 23.07

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

It was proposed to introduce the Industry aligned Course on Plant Design and Management Systems (PDMS) for the students of sixth semester BE, in collaboration with AVEVA, Mumbai. The syllabus will be framed in next CD workshop.





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## Department of Mechanical Engineering

### **Item No. 23.08**

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 Odd Term 2019-20

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 2019-20 is proposed and accepted.

### **Item No. 23.09**

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 2019-20

The panel of Paper Setters, Moderators and Valuers for the various theory courses at Postgraduate programs that will be examined in End Semester Examination of Odd Term 2019-20 is proposed and accepted.

### **Item No. 23.10**

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 2019-20

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 2019-20 is proposed and accepted.

### **Item No. 23.11**

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

The BOS was informed that the preparation of Electronic Question Bank is completed up to VIII semester of Autonomous 2014 scheme and the work for III semester of Autonomous 2018 scheme is currently in process.

### **Item No. 23.12**

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

No changes proposed.

### **Item No. 23.13**

Any other matter with the permission of the Chair.



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## Department of Mechanical Engineering

- 1) Prof. Edlabadkar proposed to keep the gap of at least 45 days from start of the academic session till holding the BOS meeting.
- 2) Dr. Ambade proposed to include OR as a compulsory subject in the BE curriculum, as lot of questions are asked on this topic in the GATE examination. As the issue was already discussed earlier, He was requested to carry out comparative study of syllabi of VNIT and other reputed institutes and put up in next BOS meeting.
- 3) The issue of defining CO for Laboratory courses was discussed in the previous BOS. It was decided that the CO for Lab. Courses can be different than the CO of corresponding Theory courses. The BOS Mechanical Engineering again requests the AC to permit for the same.

The meeting concluded with thanks to the Chair.

**Dr. S.S. Chaudhari**

Chairman

BoS in Mechanical Engineering

*Dr. S. S. Chaudhari*

Head, Dept. Of Mechanical Engineering

YCCE, Nagpur

**Prof. M. R. Kotwal**

Member Secretary

BOS in Mechanical Engineering





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## Department of Mechanical Engineering

25/01/2020

### Minutes of BOS Meeting

The twenty-fourth meeting of the Board of Studies in Mechanical Engineering was held on Wednesday 21<sup>st</sup> January 2020 in the E-Class Room (ME-106) of Mechanical Engineering Department at 12:00 Hrs.

Following are the minutes of the meeting:

#### Item No. 24.01

##### Welcome of new members

BoS Chairman Welcome all the external and internal members.

#### Item No. 24.02

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

Prof. A.P.Edlabadkar is nominated as Member secretary by BoS Chairman.

#### Item No. 24.03

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

Minutes of 23<sup>rd</sup> BoS meeting were read by Member secretary and approved by the BoS unanimously.

#### Item No. 24.04

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

Considering mathematical expressions and derivations in the "Engineering Thermodynamics, it is suggested that credits of this subject to be increase from 3 to 4. At the same time credits of "Mechanical Measurement and Metrology" should be change from 4 to 3. Keeping the overall credit in the SoE 2018 to be constant i.e., 163. This is unanimously accepted by BoS.

#### Item No. 24.05

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 subjects are accepted:

1. ME-2256 Mechanical Measurement and Metrology (SOE 2018)
2. ME-2252 Engineering Thermodynamics (SOE2018)
3. ME-1410 Renewable Energy Systems (SOE2014)
4. ME-1469 Refrigeration & Cryogenics (SOE2014)

**Department of Mechanical Engineering**

**5. Product Design and Development (M.Tech I semester)**

BoS Mechanical proposed to introduce following two New courses:

1. Computer Integrated manufacturing ( Industry aligned Subject)
2. Operation research techniques (Research lab aligned subject along with NEERI)

**Item No. 24.06**

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. 24.07**

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 Changes.

**Item No. 24.08**

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

It is observed that due to best of three pattern in the Mid-Semester examination most of the students remain absent during the examination. So BoS mechanical suggest keeping only two Mid-Semester examinations.

**Item No. 24.09**

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

No changes.

**Item No. 24.10**

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 2019-20

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

**Item No. 24.11**

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 2019-20





**Department of Mechanical Engineering**

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

**Item No. 24.12**

**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 2019-20.**

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

**Item No. 24.13**

**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. 24.14**

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

BoS Members suggests improving the quality of question papers during the End semester examination and teaching-learning process.

  
Dr. S. S. Chaudhari

Chairman

BoS in Mechanical Engineering

Dr. S. S. Chaudhari

Head, Department of Mechanical Engineering

441110, Nagpur

  
Prof. A.P. Edlabadkar

Member Secretary

BoS in Mechanical Engineering



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**B.E. SCHEME OF EXAMINATION 2018**  
**Mechanical Engineering**

SN	Sem	Sub Code	Type	Subject	T/P	Contact Hours			Credits	% Weightage			ESE Duration Hours
						L	T	P		Hrs	MSEs*	TA	
<b>TOTAL FIRST &amp; SECOND SEM</b>									<b>47</b>				

Third Semester														
1	3	GE2201	BS	Engineering Mathematics III	T	3	0	0	3	3	30	10	60	3
2	3	ME2201	PC	Material Science & Metallurgy	T	3	0	0	3	3	30	10	60	3
3	3	ME2202	PC	Lab:- Material Science & Metallurgy	P	0	0	2	2	1		40	60	
4	3	ME2203	PC	Machining Processes	T	3	0	0	3	3	30	10	60	3
5	3	ME2204	PC	Lab:- Machining Processes	P	0	0	2	2	1		40	60	
6	3	ME2205	PC	Mechanics of Material	T	4	0	0	4	4	30	10	60	3
7	3	ME2206	PC	Lab:- Mechanics of Material	P	0	0	2	2	1				
8	3	ME2207	PC	Kinematics of Machines	T	3	0	0	3	3	30	10	60	3
9	3	ME2208	PC	Fluid Mechanics	T	4	0	0	4	4	30	10	60	3
10	3	ME2209	PC	Lab:- Fluid Mechanics	P	0	0	2	2	1		40	60	
<b>TOTAL THIRD SEM</b>						<b>20</b>	<b>0</b>	<b>8</b>	<b>28</b>	<b>24</b>				

Fourth Semester														
1	4	GE2204	BS	Advance Mathematical Techniques	T	3	0	0	3	3	30	10	60	3
2	4	ME2251	PC	Design of Machine Elements	T	3	0	0	3	3	30	10	60	3
3	4	ME2252	PC	Engineering Thermodynamics	T	3	0	0	3	3	30	10	60	3
4	4	ME2253	PC	Lab:- Machine Drawing	P	0	0	2	2	1		40	60	
5	4	ME2254	PC	Manufacturing Processes	T	3	0	0	3	3	30	10	60	3
6	4	ME2255	PC	Lab:- Manufacturing Processes	P	0	0	2	2	1		40	60	
7	4	ME2256	PC	Mechanical measurement & Metrology	T	4	0	0	4	4	30	10	60	3
8	4	ME2257	PC	Lab:- Mechanical measurement & Metrology	P	0	0	2	2	1		40	60	
<b>TOTAL FOURTH SEM</b>						<b>16</b>	<b>0</b>	<b>6</b>	<b>22</b>	<b>19</b>				

List of Audit Courses														
2	4	GE2121	HS	Env Studies for 4 Sem. CV,ME,EE,IT	A	2	0	0	2	0				

\* MSEs = 3 MSEs of 15 Marks each will be conducted and marks of better 2 of these 3 MSEs will be considered for Continuous Assessment





**B.E. SCHEME OF EXAMINATION 2018**  
**Mechanical Engineering**

SN	Sem	Sub Code	Type	Subject	T/P	Contact Hours			Credits	% Weightage			ESE Duration Hours	
						L	T	P		Hrs	MSEs*	TA		ESE
					June 2018			1.00			Applicable for AY 2019-20 Onwards			
Chairperson		Dean (Acad. Matters)			Date of Release			Version						
<b>Fifth Semester</b>														
1	5	GE2312	HS	Fundamental of Economics	T	3	0	0	3	3	30	10	60	3
2	5	ME2301	PC	Heat Transfer	T	3	0	0	3	3	30	10	60	3
3	5	ME2302	PC	Lab:- Heat Transfer	P	0	0	2	2	1		40	60	
4	5	ME2303	PC	Dynamics of Machines	T	3	0	0	4	3	30	10	60	3
5	5	ME2304	PC	Lab:- Dynamics of Machines	P	0	0	2	2	1		40	60	
6	5	ME2305	PC	Production Management	T	3	0	0	3	3	30	10	60	3
7	5		OE	Open Elective - I *	T	3	0	0	3	3	30	10	60	3
8	5		OE	Open Elective - II *	T	3	0	0	3	3	30	10	60	3
9	5/6	ME2310	STR	Industry Visit and Its report	P	0	0	0	0	1		100		
<b>TOTAL FIFTH SEM</b>						<b>18</b>	<b>0</b>	<b>4</b>	<b>23</b>	<b>21</b>				
<b>Sixth Semester</b>														
1	6	GE2311	HS	Fundamental of Management	T	3	0	0	3	3	30	10	60	3
2	6	ME2351	PC	Fluid Machines	T	3	0	0	3	3	30	10	60	3
3	6	ME2352	PC	Lab:- Fluid Machines	P	0	0	2	2	1		40	60	
4	6	ME2353	PC	Computer Aided Design	P	0	0	2	2	1		40	60	
5	6	ME2354	PC	Design of Mechanical Drives	T	3	0	0	3	3	30	10	60	3
6	6		PE	Professional Elective I	T	3	0	0	3	3	30	10	60	3
7	6		PE	Lab:- Professional Elective I	P	0	0	2	2	1		40	60	
8	6		OE	Open Elective - III **	T	3	0	0	3	3	30	10	60	3
9	6		OE	Open Elective - IV **	T	3	0	0	3	3	30	10	60	3
<b>TOTAL SIXTH SEM</b>						<b>18</b>	<b>0</b>	<b>6</b>	<b>26</b>	<b>21</b>				

\* Refure list Open Elective- I & II

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

List of Audit Courses													
2		IT1121	IT	Industrial Programmin Language	A	3	0	0	3	0			

**List of Professional Electives-I**

1	6	ME2361	PE-I	PE I : Finite Element Methods
	6	ME2362	PE-I	PE I : Lab:- Finite Element Methods
2	6	ME2363	PE-I	PE I :Industrial Fluid Power
	6	ME2364	PE-I	PE I : Lab:- Industrial Fluid Power
3	6	ME2365	PE-I	PE I : I.C. Engines
	6	ME2366	PE-I	PE I : Lab:- I.C. Engines
4	6	ME2367	PE-I	PE I : Refrigeration & Cryogenics
	6	ME2368	PE-I	PE I : Lab:- Refrigeration & Cryogenics
5	6	ME2369	PE-I	PE I : Computer Integrated Manufacturing
	6	ME2370	PE-I	PE I : Lab:- Computer Integrated Manufacturing
6	6	ME2371	PE-I	PE I : Mechatronics
			PE-I	PE I : Lab:- Mechatronics
			PE-I	PE I : Thermal Engineering Systems
	6	ME2372	PE-I	PE I : Lab:Thermal Engineering Systems

\* MSEs = 3 MSEs of 15 Marks each will be conducted and marks of better 2 of these 3 MSEs will be considered for Continuous Assessment



**B.E. SCHEME OF EXAMINATION 2018**  
**Mechanical Engineering**

SN	Sem	Sub Code	Type	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA	ESE	

					June 2018	1.00				Applicable for AY 2020-21 Onwards				
Chairperson					Dean (Acad. Matters)	Date of Release	Version							
<b>Seventh Semester</b>														
1	7	ME2401	PC	Automation In Production	T	3	0	0	3	3	30	10	60	3
2	7	ME2402	PC	Lab:- Automation In Production	P	0	0	2	2	1		40	60	
3	7		PE	Professional Elective II	T	3	0	0	3	3	30	10	60	3
4	7		PE	Professional Elective III	T	3	0	0	3	3	30	10	60	3
5	7		PE	Lab:- Professional Elective III	P	0	0	2	2	1		40	60	
6	7		PE	Professional Elective IV	T	3	0	0	3	3	30	10	60	3
7	7		PE	Professional Elective V	T	3	0	0	3	3	30	10	60	3
8	7	ME2409	STR	Mini Project	P	0	0	4	4	2		40	60	
9	7	ME2410	STR	Campus Recruitment Training (CRT)	P	0	0	0	0	2		100		
<b>TOTAL SEVENTH SEM</b>						<b>15</b>	<b>0</b>	<b>8</b>	<b>23</b>	<b>21</b>				
<b>Eighth Semester</b>														
1	8	ME2451	STR	Major Project	P	0	0	12	12	9		40	60	
2	8	ME2452	STR	Extra curricular Activity Evaluation	P	0	0	0	0	1		100		
<b>TOTAL EIGHTH SEM</b>						<b>0</b>	<b>0</b>	<b>12</b>	<b>12</b>	<b>10</b>				
<b>GRAND TOTAL</b>						<b>87</b>	<b>0</b>	<b>44</b>	<b>134</b>	<b>163</b>				

**List of Professional Electives-II,III,IV & V**

**Professional Electives -II**

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

**Professional Electives -III**

1	7	ME2421	PE-III	PE III : Vibration
	7	ME2422	PE-III	PE III : Lab:- Vibration
2	7	ME2423	PE-III	PE III : Computer Aided Design and Manufacturing
	7	ME2424	PE-III	PE III : Lab:- Computer Aided Design and Manufacturing
4	7	ME2425	PE-III	PE III : Vehicle Engineering
	7	ME2426	PE-III	PE III : Lab:- Vehicle Engineering
5	7	ME2427	PE-III	PE III : Solar Energy and It'S Utilisation
	7	ME2428	PE-III	PE III : Lab:- Solar Energy and It'S Utilisation
6	7	ME2429	PE-III	PE III : CNC & Robotics
	7	ME2430	PE-III	PE III : Lab:- CNC & Robotics
7	7	ME2433	PE-III	PE III :Pipe Design Engineering
	7	ME2434	PE-III	PE III : Lab:- Pipe Design Engineering

**Professional Electives -IV**

1	7	ME2441	PE-IV	PE IV : Synthesis of Mechanism
2	7	ME2442	PE-IV	PE IV : Design for Manufacturing & Assembly
3	7	ME2443	PE-IV	PE IV : Renewable Energy System
4	7	ME2444	PE-IV	PE IV : Engineering of Plastics
5	7	ME2445	PE-IV	PE IV : Finance & Cost Management
6	7	ME2446	PE-IV	PE IV : Artificial Intelligence
7	7	ME2447	PE-IV	PE IV : Maintainance Management
8	7	ME2448	PE-IV	PE IV : Total Quality Management
9	7	ME2449	PE-IV	PE IV : Project Evaluation & Management

**Professional Electives -V**

1	7	ME2461	PE-V	PE V : Stress Analysis
2	7	ME2462	PE-V	PE V : Product Design and Development
3	7	ME2463	PE-V	PE V : Power Plant Engineering
5	7	ME2464	PE-V	PE V : Value Engineering
6	7	ME2465	PE-V	PE V : Design of Experiments and Taguchi Methods
7	7	ME2466	PE-V	PE V : Industrial Safety
8	7	ME2467	PE-V	PE V : Control System Engineering
9	7	ME2468	PE-V	PE V : Tribology





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**B.E. SCHEME OF EXAMINATION 2018**  
**Mechanical Engineering**

SN	Sem	Sub Code	Type	Subject	T/P	Contact Hours			Credits	% Weightage			ESE Duration Hours
						L	T	P Hrs		MSEs*	TA	ESE	

\* MSEs = 3 MSEs of 15 Marks each will be conducted and marks of better 2 of these 3 MSEs will be considered for Continuous Assessment

		June 2018	1.00	Applicable for AY 2021-22 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	

Sem	SUB CODE	Type	Subject	T/P
5	ME2331	OE-I	OE I : Operations Research Techniques	T
5	ME2332	OE-I	OE I : Automobile Engineering	T
5	ME2333	OE-I	OE I : Plastic Engineering	T
5	ME2334	OE-I	OE I : Control System Engineering	T
5	ME2341	OE-II	OE II : Total Quality Management	T
5	ME2342	OE-II	OE II : Reliability Engineering	T
5	ME2343	OE-II	OE II : Power Generation Engineering	T
5	ME2334	OE-II	OE II : Project Evaluation & Management	T
6	ME2381	OE-III	OE III : Operations Research Techniques	T
6	ME2382	OE-III	OE III : Automobile Engineering	T
6	ME2383	OE-III	OE III : Plastic Engineering	T
6	ME2384	OE-III	OE III : Control System Engineering	T
6	ME2391	OE-IV	OE IV : Total Quality Management	T
6	ME2392	OE-IV	OE IV : Reliability Engineering	T
6	ME2393	OE-IV	OE IV : Power Generation Engineering	T
6	ME2394	OE-IV	OE IV : Project Evaluation & Management	T



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**Mechanical Engineering**

SN	Sem	Sub Code	Type	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA	ESE	





**Department of Electrical Engineering**

**24<sup>th</sup> Board of Studies in Electrical Engineering**  
**Minutes of the Meeting**

Date: 20 July 2019

Meeting of the Board of Studies (BoS) in Electrical Engineering was held on Saturday 19 January 2019 at 11 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.B.Y.Bagde (Chairman,BoS)	13	Mr.S.R.Gaigowal
2.	Dr.B.S.Umre (Academic)	14	Mr.B.S.Sudame
3.	Dr.R.M.Moharil	15	Ms.S.L.Tiwari
4.	Dr.S.G.Kadwane	16	Mrs.U.V.Waghmare
5.	Mr.R.N.Nagpure	17	Ms.N.T.Sahu
6.	Dr.P.M.Meshram	18	Mr.R.S.Khonde
7.	Mr.J.A.Shaikh	19	Ms.N.P.Wasnik
8.	Mr.R.M.Gimonkar	20	Mr.Dheeraj Rathod
9.	Mr.P.S.Patil	21	Ms.Swati Mohod
10.	Dr.S.P.Gawande	22	Ms.Alviya Mahavesh
11.	Mr.A.S.Lilhare		
12.	Mr.P.S.Shete		

Leave of absence was granted to:

S.N	Name	S.N	Name
1	Dr.S.S.Dambhare(VC Nominee)	7	Mr.S.S.Gokhale
2	Dr.M.A.Chaudhari (Academic)	8	Dr.S.P.Adhau
3	Dr.Altaf Badar (Alumni)	9	Mr.A.P.Munshi
4	Mr.Prashant Chimankar(Industrial)	10	Ms.S.B.Rewatkar(Kewte)
5	Mrs.Xma R.Pote (Secretary,BoS)	11	Ms.T.D.Tembhekar
6	Mrs.A.Y.Fadnis	12.	Mr.V.R.Doifode





Nagar Yuwak Shikshan Sanstha's

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## Department of Electrical Engineering

Saturday 20<sup>th</sup> July 2019

24.01	Welcome of new members : Dhiraj Rathod Alviya Mahevash
24.02	Confirmation of minutes of previous Meeting and action taken report on decisions /suggestions of the previous meeting. <ul style="list-style-type: none"><li>• Minutes of 23<sup>rd</sup> BoS Meeting were confirmed</li></ul>
24.03	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>• ANNEXURE A<ul style="list-style-type: none"><li>i. In VI<sup>th</sup> Semester (Scheme 2014) Professional elective I :Optimization Technique will be replaced by Illumination Engineering. This course will be offered as MOOC Course.</li><li>ii. In VIII<sup>th</sup> Semester (Scheme 2014) Professional elective IV:Electrical Power Utilization will be replaced by the subject Electric Vehicles</li></ul></li></ul>
24.04	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. Following suggestions were given: <ul style="list-style-type: none"><li>• Modification in Electrical Engineering (EL2101) UNIT - II Include numerical based on waveforms of voltage across and current through electrical elements such as resistance, inductance, and capacitance.  <li>• VIII Semester: PEIV: Electric Vehicles is introduced (ANNEXURE B)</li></li></ul>
24.05	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>• No changes suggested</li></ul>
24.06	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>• No changes suggested</li></ul>
24.07	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>• No changes suggested</li></ul>





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24.08	<p>To discuss and propose the new courses/MOOC received from the faculty for inclusion in the curriculum</p> <ul style="list-style-type: none"> <li>• <b>New Course suggestion for MOOC</b></li> </ul> <p>VI<sup>th</sup> Semester: Professional elective I: Illumination Engineering: will be offered in Even Term Scheme 2014</p>
24.09	<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 2019-20</p> <p><b>Panel of Paper setters, moderators and valuers for the various theory courses at Undergraduate programs have been included in the list of YA 11 for End Semester Examination of Odd Term 2019-20</b></p>
24.10	<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 2019-20</p> <p><b>Panel of Paper setters, moderators and evaluators for the various theory courses for Postgraduate courses have been included in the list of YA 11 for End Semester Examination of Odd Term 2019-20</b></p>
24.11	<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 2019-20</p> <ul style="list-style-type: none"> <li>• <b>Panel of internal and external examiners for the various laboratory have been included in the list of YA 12.</b></li> </ul>
24.12	<p>Preparation of Electronic question Bank for VII and VIII Sem UG courses</p> <p>To review solutions to all questions of Electronic Question Banks for all courses of V SEM</p> <ul style="list-style-type: none"> <li>• <b>Electronic question Bank for VII Semester is in progress.</b></li> <li>• <b>Solutions to all questions of Electronic Question Banks for all courses of V SEM is in progress.</b></li> </ul>
24.13	<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 changes suggested</b></li> </ul>
24.14	Any other matter with the permission of the Chair

  
Dr. B. Y. Bagde

Head of Department





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DEPARTMENT OF ELECTRICAL ENGINEERING  
Session 2019-20  
BoS MEETING

Name of Faculty	Sign	Name of Faculty	Sign
Dr.S.P.Adhau		Prof.V.R .Doifode	
Dr.R.M.Moharil		Prof.J.M.Kumbhare	
Dr.S.G.Kadwane		Prof.G.C.Gondhalekar	
Dr.R.D.Thakare		Prof.P.S.Shete	
Prof.A.Y.Fadnis		Prof.S.R.Gaigowal	
Dr.P.M.Meshram		Prof.B.S.Sudame	
Prof.R.N.Nagpure		Prof.S.L.Tiwari	
Dr.S.S.Gokhale		Prof.P.B.Joshi	
Dr.B.Y.Bagde		Prof.U.V.Waghmare	
Prof.R.M.Gimonkar		Prof.N.P.Wasnik	
Prof.J.A.Shaikh		Prof.R.S.Khonde	
Prof.A.P.Munshi		Prof.S.K.Mohod(Bhoyar)	
Prof.P.S.Patil		Prof.Alviya Mahevash	
Dr.S.P.Gawande		Prof.Hiteshree Suresh Sakhare	
Prof.S.B.Rewatkar		Prof.Nilesh Parmeshwar Shende	
Prof.T.D.Tembhekar(Sakhare)		Prof.Nikita Pramod Kolte	
Prof.N.T.Sahu			
Prof.X.R.Pote			
Prof.A.S.Lihare			





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## Department of Electrical Engineering

### 25<sup>th</sup> Board of Studies in Electrical Engineering

#### Minutes of the Meeting

Date: 11 January 2020

Meeting of the Board of Studies (BoS) in Electrical Engineering was held on Saturday 11 January 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 )	17	Mr.B.S.Sudame
2.	Dr.B.S.Umre (Academic)	18	Ms.S.L.Tiwari
3.	Dr.M.A.Chaudhari (Academic)	19	Mrs.U.V.Waghmare
4.	Dr.R.M.Moharil	20	Ms.N.T.Sahu
5.	Dr.S.G.Kadwane	21	Mr.R.S.Khonde
6.	Mr.R.N.Nagpure	22	Ms.N.P.Wasnik
7.	Dr.P.M.Meshram	23	Ms.T.D.Tembhekar
8.	Dr.S.P.Gawande	24	Ms.Swati Mohod
9.	Dr.S.S.Gokhale	25	Ms.Alviya Mahevash
10.	Dr.B.Y.Bagde	26	Ms.S.B.Rewatkar(Kewte)
11.	Mr.A.P.Munshi	27	Nilesh P.Shende
12.	Mr.A.S.Lilhare	28	Nikita P.Kolte
13.	Mrs.J.M.Kumbhare	29	Hiteshree Sakhare
14.	Mr.P.S.Shete	30	Mrs.Xma R.Pote
15.	Mr.S.R.Gaigowal	31	Mr.P.S.Patil
16.	Mr.P.B.Joshi	32	V.R.Doifode

Leave of absence was granted to:

S.N	Name	S.N	Name
1	Dr.S.S.Dambhare(VC Nominee)	5	Mrs.A.Y.Fadnis
2	Dr.Altaf Badar (Alumni)	6	Mr.J.A.Shaikh
3	Mr.Prashant Chimankar(Industrial)	7	Mr.R.M.Gimonkar
4	Dr.S.P.Adhau		





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## Department of Electrical Engineering

Saturday 11 January 2020

Following Agenda was discussed in the Meeting:

25.01	Welcome of new members : Nilesh P. Shende Nikita P Kolte Hiteshree Sakhare
25.02	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 24<sup>th</sup> BoS Meeting were confirmed</b></li></ul>
25.03	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>• The Subject Electrical Power Utilization (EPU) will be offered as Professional Elective I in 6<sup>th</sup> Semester in Scheme 2018.</li><li>• Codes of Open Elective III and IV to be offered in 6<sup>th</sup> Semester can be same as Open Elective I and II offered in 5<sup>th</sup> Semester (<b>To be discussed in Academic Council</b>)</li></ul>
25.04	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>Changes in the syllabi of various courses in Autonomous 2014 Annexure A</b></li></ul>
25.05	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>Annexure B</b></li></ul>
25.06	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>Annexure C</b></li></ul>
25.07	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>
25.08	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>No suggestions</b></li></ul>





Nagar Yuwak Shikshan Sanstha's

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## Department of Electrical Engineering

25.09	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 Even Term 2019-20 <ul style="list-style-type: none"><li>• <b>Panel of Paper setters, moderators and valuers for the various theory courses at Undergraduate programs have been included in the list of YA 11 for End Semester Examination of Even Term 2019-20</b></li></ul>
25.10	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 2019-20 <ul style="list-style-type: none"><li>• <b>Panel of Paper setters, moderators and valuers for the various theory courses at Undergraduate programs have been included in the list of YA 11 for End Semester Examination of Even Term 2019-20</b></li></ul>
25.11	To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG and PG levels that will be examined in End Semester Examination Even Term 2019-20 <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 2019-20</b></li></ul>
25.12	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) <ul style="list-style-type: none"><li>• Updation/Preparation of Electronic question Bank upto VI Sem UG courses is in progress</li><li>• Solutions to all questions of Electronic Question Banks for all courses upto IV SEM (SoE 2018) is in progress.</li></ul>
25.13	Any other matter with the permission of the Chair <ul style="list-style-type: none"><li>• <b>Suggestion regarding ESE Question Paper Pattern</b><ol style="list-style-type: none"><li>a) 20% of the questions must be compulsory<ul style="list-style-type: none"><li>Compulsory question = 12 marks (Short answer questions)</li><li>Questions with option = 48 marks</li></ul></li></ol>Flexibility of break up should be given to paper setter</li><li>• <b>Regarding Mini and Major Project</b><p>For some students who are not able to do Semester long internship in 8<sup>th</sup> Semester for them - Projects may be offered in the Department with some subjects like Project Management, Finance Management etc.</p></li></ul>

20

*Xma R.Pote*

Mrs. Xma R.Pote

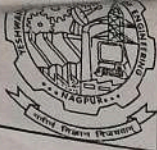
Secretary, BoS

*S.P. Adhau*

Dr. S.P. Adhau

Head of Department





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## Department of Electrical Engineering

ATTENDANCE SHEET  
25<sup>th</sup> BOARD OF STUDIES MEET

Date:- 10/01/2020

Sr.No	Name of Faculty	Signature
1	Nilesh-P. Shende	
2	Nikita P. Kotte	
3	Hiteshree S. Sakhare	
4	Sandeep R. Geigewal	
5	Vaibhaw R. Daitode	
6	Gaurav Gonchhalokar	
7	Prof T. D. Tembhekar - Sakhare	
8	B. S. Sudame	
9	S. S. Gokhale	
10	P. S. Shete	
11	A. P. Munshi	
12	Dr. (Mrs.) M. A. Chaudhari	
13	Dr. B. S. Umare	
14	Dr. R. M. Moharil	
15	Dr. S. G. Kadwane	
16	Dr. S. P. Gawande	
17	Dr. P. M. Meshram	
18	Ms. -X. R. Pote.	
19	Ms. S. K. Mohod	
20	U. V. Waghmare	
21	S. S. Kewate	
22		
23		
24		
25		





Nagar YuwakShikshanSanstha's

## YeshwantraoChavan College of Engineering

(An Autonomous Institution affiliated to RashtrasantTukadojiMaharaj Nagpur University)

Hingna Road, Wānadongri, Nagpur - 441 110

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

### Department of Electronics Engineering

## Boards of Studies in Electronics Engineering

### Minutes of the Meeting No. 25

Meeting No. 25,

Date: 15<sup>th</sup> July 2019

Meeting no. 25 of the Board of Studies in Electronics Engineering was held on 15<sup>th</sup> July 2019 at 10.00 A.M.in the Department library of Electronics Engineering department.

The meeting was attended by the following members of BoS.

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

Leave of absence was granted to

1. Mr. Unmesh Oke 2. Dr.P.R.Deshmukh 3.Prof.Chaitali Darode



The following agenda points were deliberated in the meeting

25.01	<p>Welcome of new members  <b>:-Dr.P.T.Karule</b>, took a charge of HoD from 1<sup>st</sup> July 2018, &amp; therefore as per academic regulation he is new Chairman, BoS, Electronics Engineering from session 2018-19 onwards.  <b>Nomination of Eternal Experts on The BoS.</b>          BoS proposed names of external experts on BoS for further recommendations :          1) <b>Dr. K.D.Kulat</b>, VNIT, Nagpur - Subject expert from outside the college          2) <b>Dr. R.B.Deshmukh</b>, VNIT, Nagpur - Subject expert from outside college          3) <b>Dr.P.R.Deshmukh</b>, VC Nominee          4) <b>Ms. Chaitali Darode</b> - Postgraduate meritorious alumnus</p>
25.02	<p>Installation of member Secretary          Chairman constituted new committee under EX14.1 as under :  <b>Dr. P.T.Karule- Chairman</b>  <b>Mr. Sandeep Kakde – Member</b>  <b>Prof. A.S.Khobragade –Member</b>  <b>Prof. A.V. Gokhale –Member</b>  <b>Prof. P.P.Palsodkar–Member</b></p>
25.03	<p>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 Electronics Engineering held on 19<sup>th</sup> January 2018 were placed on the table by Chairman Dr.P.T.Karule were confirmed unanimously.</b></p>
25.04	<p>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          1. One MOOC Course on Python” Programming, Data structure and Algorithms using Python” is added in UG SoE 2014-15 Scheme in 8<sup>th</sup> Semester in PE-III.          2. Revised Scheme of Examination (known as Autonomous 2018) of the Undergraduate program is proposed. In UG SoE (known as Autonomous 2018), a Programming Lab for the subject: Signal and System is proposed which is based on Scripting Language-Python .Name of the Lab is :” Computing using Python or Programming Language“          3. Revised Scheme of Examination (known as Autonomous 2018) of the Postgraduate program is proposed. Biomedical Instrumentation is shifted from PEIII to PE I.</p>
25.05	<p>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.(Comment: Consider the remarks given by the faculty in course completion reports of previous terms)   <b>No Change.</b></p>
25.06	<p>To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate and Postgraduate Programs.   <b>Text Books on Python are added.</b>  <b>1. TEXT BOOK</b>          1. <b>Gowrishankar S, Veena A, “Introduction to Python Programming”, 1st Edition, CRC Press/Taylor &amp; Francis, 2018. ISBN-13: 978-0815394372</b>   <b>REFERENCE BOOKS / WEBLINKS:</b>          1. <b>NPTEL lecture series on Programming, Data Structures and Algorithms using Python</b>          2. <b>Jake VanderPlas, “Python Data Science Handbook: Essential Tools for Working with Data”, 1st Edition, O’Reilly Media, 2016. ISBN-13: 978-1491912058</b>          3. <b>Aurelien Geron, Hands-On Machine Learning with Scikit-Learn and TensorFlow: Concepts, Tools, and Techniques to Build Intelligent Systems”, 1st Edition,O’Reilly Media, 2017. ISBN – 13: 978-1491962299.</b>          4. <b>Wesley J Chun, “Core Python Applications Programming”, 3rd Edition, Pearson Education India, 2015. ISBN-13: 978-9332555365</b>          5. <b>Miguel Grinberg, “Flask Web Development: Developing Web Applications with Python”, 2nd Edition, O’Reilly Media, 2018. ISBN-13: 978-1491991732.</b></p>



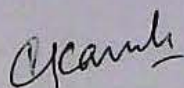
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25.05	<p>To discuss and suggest the minor changes in the syllabi of various courses in Autonomus 2014 Schemes of and Post graduate programs conducted under the Board.(Comment: Consider the remarks given by the faculty in course completion reports of previous terms)   <b>No Change.</b></p>
25.06	<p>To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate and Postgraduate Programs.   <b>Text Books on Python are added.</b>  <b>1. TEXT BOOK</b>          1. <b>Gowrishankar S, Veena A, “Introduction to Python Programming”, 1st Edition, CRC Press/Taylor &amp; Francis, 2018. ISBN-13: 978-0815394372</b>   <b>REFERENCE BOOKS / WEBLINKS:</b>          1. <b>NPTEL lecture series on Programming, Data Structures and Algorithms using Python</b>          2. <b>Jake VanderPlas, “Python Data Science Handbook: Essential Tools for Working with Data”, 1st Edition, O’Reilly Media, 2016. ISBN-13: 978-1491912058</b>          3. <b>Aurelien Geron, Hands-On Machine Learning with Scikit-Learn and TensorFlow: Concepts, Tools, and Techniques to Build Intelligent Systems”, 1st Edition,O’Reilly Media, 2017. ISBN – 13: 978-1491962299.</b>          4. <b>Wesley J Chun, “Core Python Applications Programming”, 3rd Edition, Pearson Education India, 2015. ISBN-13: 978-9332555365</b>          5. <b>Miguel Grinberg, “Flask Web Development: Developing Web Applications with Python”, 2nd Edition, O’Reilly Media, 2018. ISBN-13: 978-1491991732.</b></p>



25.07	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>
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>The new courses/MOOCs on "Programming, Data structure and Algorithms using Python" is proposed in 8<sup>th</sup> Semester in PE-III.</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 ODD Term 2019-20. <b>:-The panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs for End Semester Examination of ODD Term 2019-20 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 ODD Term 2019-20. (Comment: Question papers of all the courses of PG programs are set and evaluated by the course instructor from ODD Term 2019-20. 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 2019-20 was constituted.</b>
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 2019-20. <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 2019-20 was constituted.</b>
25.13	<ul style="list-style-type: none"> <li>▪ Preparation of Electronic question Bank for VII and VIII Semester UG courses.</li> <li>▪ To review solutions to all questions of Electronic Question Bank for all courses of V semester.</li> </ul> <b>Preparation of Electronic question Bank for VII and VIII Semester UG courses is in Progress</b> <b>To review solutions to all questions of Electronic Question Bank for all courses of V semester. (In Progress)</b>
25.14	To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses. <b>No Change</b>
25.15	Any other matter with the permission of the Chair <b>Formal Thanks to Eternal Experts on The BoS, 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: 15<sup>th</sup> July 2019



### 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.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	Mr. S. Y. Ambatkar	Member
11.	Faculty Member	Dr. U. S. Ghodeswar	Member
12.	Faculty Member	Mr. P. P. Zode	Member
13.	Faculty Member	Dr. P. P. Palsodkar	Member
14.	Faculty Member	Ms. P. P. Zode	Member
15.	Faculty Member	Ms. T. G. Panse	Member
16.	Faculty Member	Ms. M. N. Kalbande	Member
17.	Faculty Member	Ms. Y. A. Gaidhani	Member
18.	Faculty Member	Ms. R. S. Balpande	Member
19.	Faculty Member	Mr.P. M. Palsodkar	Member
20.	Faculty Member	Ms. A. D. Tijare	Member
21.	Faculty Member	Mr. V. D. Alagdeve	Member
22.	Faculty Member	Ms. P.A.Jadhav	Member
23.	Faculty Member	Ms. R. S. Keote	Member
24.	Faculty Member	Ms. S. A. Dhondse	Member
25.	Faculty Member	Mr. A. A. Peshattiwar	Member
26.	Faculty Member	Mr. Kuldeep Pande	Member



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



8<sup>th</sup> Semester

EE1439	PE III: Programming, Data Structures and Algorithms using Python	L=0	T=0	P=2	Credits = 1
--------	--	-----	-----	-----	-------------

Evaluation Scheme	Continuous Evaluation	ESE	Total	ESE Duration
	40	60	100	

Objective	Outcome
The main objective of this course is to understand python programming concepts; object oriented programming concepts to solve substantial problems and applications.	<ol style="list-style-type: none"><li>1. Describe the Python language syntax including control statements, loops and functions to write programs for a wide variety problem in mathematics, science, and games.</li><li>2. Examine the core data structures like lists, dictionaries, tuples and sets in Python to store, process and sort the data.</li><li>3. Interpret the concepts of Object-oriented programming as used in Python</li><li>4. Discover the capabilities of Python regular expression for data verification and utilize matrices for building performance efficient Python programs.</li></ol>

**Unit 1:**

Variables, operations, control flow - assignments, conditional statement, loops, functions

**Unit 2:**

Strings, Creating and Storing Strings, Basic String Operations, Accessing Characters in String by Index Number, String Slicing and Joining, String Methods, Formatting Strings, Lists, Creating Lists, Basic List Operations, Indexing and Slicing in Lists, Built-In Functions Used on Lists, List Methods, The del Statement.

**Unit 3**

Basic algorithmic analysis: input size, asymptotic complexity,  $O()$  notation, Arrays vs lists, Merge sort, Quicksort, Stable sorting

**Unit 4**

Dictionaries, Creating Dictionary, Accessing and Modifying key:value Pairs in Dictionaries, Built-In Functions Used on Dictionaries, Dictionary Methods, The del Statement, Tuples and Sets, Creating Tuples, Basic Tuple Operations, Indexing and Slicing in Tuples, Built-In Functions Used on Tuples, Relation between Tuples and Lists, Relation between Tuples and Dictionaries, Tuple Methods, Using zip() Function, Sets, Set Methods, Traversing of Sets, Frozenset.

**Unit 5**

Data structures: stack, queue, Heaps, "Linked" lists: find, insert, delete, Binary search trees: find, insert, delete, Height-balanced binary search trees

**Unit 6**

Classes and Objects, Creating Classes in Python, Creating Objects in Python, The Constructor Method, Classes with Multiple Objects.

**TEXT BOOK**

1. Gowrishankar S, Veena A, "Introduction to Python Programming", 1st Edition, CRC Press/Taylor & Francis, 2018. ISBN-13: 978-0815394372

**REFERENCE BOOKS / WEBLINKS:**

1. NPTEL lecture series on Programming, Data Structures and Algorithms using Python
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Nagar Yuwak Shikshan Sanstha's

# Yeshwantrao Chavan College of Engineering

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**BE SoE and Syllabus 2018**

## **Electronics Engineering**

4. Wesley J Chun, "Core Python Applications Programming", 3rd Edition, Pearson Education India, 2015. ISBN-13: 978-9332555365
5. Miguel Grinberg, "Flask Web Development: Developing Web Applications with Python", 2nd Edition, O'Reilly Media, 2018. ISBN-13: 978-1491991732.





Nagar Yuwak Shikshan Sanstha's  
**Yeshwantrao Chavan College of Engineering**  
 (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)  
**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>TOTAL FIRST &amp; SECOND SEM</b>										<b>47</b>				
<b>Third Semester</b>														
1	3	BS	GE2201	Engineering Mathematics III	T	3	0	0	3	3	30	30	40	3 Hours
2	3	PC	EE2201	Electronic Devices	T	3	1	0	4	4	30	30	40	3 Hours
3	3	PC	EE2202	Lab:Electronic Devices	P	0	0	2	2	1		60	40	
4	3	PC	EE2203	Signal and Systems	T	3	0	0	3	3	30	30	40	3 Hours
5	3	PC	EE2204	Lab:Programming Language	P	0	0	2	2	1		60	40	
6	3	PC	EE2205	Digital Logic Design	T	3	0	0	3	3	30	30	40	3 Hours
7	3	PC	EE2206	Lab: Digital Logic Design	P	0	0	2	2	1		60	40	
8	3	PC	EE2207	Network Analysis	T	3	0	0	3	3	30	30	40	3 Hours
9	3	PC	EE2208	Lab:Network Analysis	P	0	0	2	2	1		60	40	
<b>TOTAL</b>						<b>15</b>	<b>1</b>	<b>8</b>	<b>24</b>	<b>20</b>				

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

<b>Audit Courses</b>														
1	4	HS	GE2121	Env Studies for 4 Sem. CV,ME,EE,IT	A	3	0	0	3	0				

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	<b>Applicable for AY 2020-21 Onwards</b>
Chairperson	Dean (Acad. Matters)	Date of Release	Version	





Nagar Yuwak Shikshan Sanstha's  
**Yeshwantrao Chavan College of Engineering**  
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**M. Tech. SCHEME OF EXAMINATION 2019**  
**Electronics Engineering**

SN	Sem	Sub Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration
					L	T	P	Hrs		MSEs*	TA	ESE	
<b>I SEMESTER</b>													
1	1	EE3901	Advanced Digital Signal Processing	T	3	0	0	3	3	30	10	60	3
2	1	EE3902	Lab: Advanced Digital Signal Processing	P	0	0	2	2	1	40		60	
3	1	EE3903	Digital IC Design	T	3	0	0	3	3	30	10	60	3
4	1	EE3904	Lab: Digital IC Design	P	0	0	2	2	1		40	60	
5	1	EE3905	RISC & DSP Processor Architecture	T	3	0	0	3	3	30	10	60	3
6	1	EE3906	Advanced Digital System Design	T	3	0	0	3	3	30	10	60	3
7	1	EE3907	Lab: Advanced Digital System Design	P	0	0	2	2	1		40	60	
8	1	EE3908	Advanced Communication Systems	T	3	0	0	3	3	30	10	60	3
9	1	Professional Elective- I		T	3	0	0	3	3	30	10	60	3
<b>Total</b>						<b>18</b>	<b>0</b>	<b>6</b>	<b>24</b>	<b>21</b>			

**List of Professional Electives-I**

1	EE3909	PE I: Analog IC Design
1	EE3910	PE I: Multirate signal Processing
1	EE3911	PE I: Low Power CMOS VLSI Design
1	EE3912	PE I: Biomedical Instrumentation

**II SEMESTER**

1	2	EE3915	RF Circuit Design	T	3	0	0	3	3	30	10	60	3
2	2	EE3916	Lab: RF Circuit Design	P	0	0	2	2	1		40	60	
3	2	EE3917	Artificial Intelligence	T	3	0	0	3	3	30	10	60	3
4	2	EE3918	Digital Image Processing	T	3	0	0	3	3	30	10	60	3
5	2	EE3919	Lab : Digital Image Processing	P	0	0	2	2	1		40	60	
6	2	Professional Elective- II		T	3	0	0	3	3	30	10	60	3
7	2	Professional Elective- III		T	3	0	0	3	3	30	10	60	3
8	2	Professional Elective- IV		T	3	0	0	3	3	30	10	60	3
<b>Total</b>						<b>18</b>	<b>0</b>	<b>4</b>	<b>22</b>	<b>20</b>			

**List of Professional Electives-II**

2	EE3920	PE II: Wireless Communication
2	EE3921	PE II: VLSI Signal Processing
2	EE3922	PE II: Verification & Testing of VLSI Circuit

**List of Professional Electives-III**

2	EE3923	PE III :Wireless Sensor
2	EE3924	PE III :Mixed signal VLSI Design
2	EE3925	PE III :Cryptography & Network Security

**List of Professional Electives-IV**

2	EE3926	PE IV :Adaptive Signal Processing
2	EE3927	PE IV :Embedded System & RTOS
2	EE3928	PE IV :Advanced Computer Architecture
2	EE3929	PE IV :Pattern recognition

**III SEMESTER**

1	3	EE3938	Seminar	P	0	0	2	2	1	100			
2	3	EE3939	Project Phase - I	P	0	0	16	16	8	100			
<b>Total</b>						<b>0</b>	<b>0</b>	<b>16</b>	<b>16</b>	<b>9</b>			

**IV SEMESTER**

1	4	EE3940	Project Phase - II	P	0	0	24	24	12	40	60		
<b>Total</b>						<b>0</b>	<b>0</b>	<b>24</b>	<b>24</b>	<b>12</b>			
<b>Grand Total of Credits</b>									<b>62</b>				

MSEs\* = Three MSEs of 15 Marks each will be conducted and marks of better 2 of these 3 MSEs will be considered for Continuous Assessment

		June 2019	1.00	Applicable for Sem 1 & 2 AY 2019-20 & Sem 3 & 4 AY 2020-21 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	





Nagar YuwakShikshanSanstha's

YeshwantraoChavan College of Engineering

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

Hingna Road, Wanadongri, Nagpur - 441 110

Ph.: 07104-237919, 234623, 329249, 329260 Fax: 07104-232376, Website: www.ycce.edu

Department of Electronics Engineering

Boards of Studies in Electronics Engineering

Boards of Studies in Electronics Engineering

Minutes of the Meeting No. 26

Meeting No. 26,

Date: 11<sup>th</sup> January 2020

Meeting no. 26 of the Board of Studies in Electronics Engineering was held on 11<sup>th</sup> January 2020 at 10.00 A.M. in the Department library of Electronics Engineering department.

The meeting was attended by the following members of BoS.

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

Leave of absence was granted to

1. Mr. Unmesh Oke 2. Dr. P. R. Deshmukh 3. Prof. Chaitali Darode



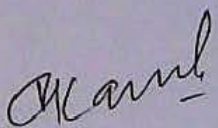
The following agenda points were deliberated in the meeting

26.01	Welcome of new members No Change																																				
26.02	Installation of member Secretary No Change																																				
26.03	To confirm the minutes of 25 <sup>th</sup> Meeting of BoS. <b>The minutes of the 25<sup>th</sup> Meeting of BoS in Electronics Engineering held on 15<sup>th</sup> July 2019 were placed on the table by Chairman Dr.P.T.Karulewere confirmed unanimously.</b>																																				
26.04	<p>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</p> <p><b>Professional Electives subjects as per the thrust areas in Scheme of Examination (known as Autonomous 2018) are rearranged.</b></p> <table border="1"> <tr> <td>PEI</td> <td>Embedded Systems/ARM</td> <td>Python</td> <td>Analog VLSI Design</td> <td>RF microwave</td> <td>DIP</td> </tr> <tr> <td>PEII</td> <td>IoT(WSN)</td> <td>OOPS</td> <td>Digital CMOS</td> <td>Antenna /Pattern Recognition</td> <td>Pattern Recognition</td> </tr> <tr> <td>PEIII</td> <td>Biomedical Instrumentation</td> <td>Algorithm &amp; Data structure</td> <td>VLSI Signal Processing</td> <td>Wireless Sensor Network</td> <td>VLSI Signal Processing</td> </tr> <tr> <td>PEIV</td> <td>Automotive(Mechatronics)</td> <td>OS</td> <td>RF Design</td> <td>RF Design/ Error control Coding</td> <td>OS/AI ML</td> </tr> <tr> <td>PEV</td> <td>Industrial Automation(AI)</td> <td>CCN/Data compression</td> <td>Nano Electronics/STF A</td> <td>Optical Communication /Audio Video Engg</td> <td>Audio Video Engg</td> </tr> <tr> <td>PEVI</td> <td>Power Electronics(Power Drives)</td> <td>Computer Organization/ Cryptography &amp; Network Security</td> <td>MEMS/Cryptography &amp; Network Security</td> <td>Wireless Communication / Cryptography &amp; Network Security</td> <td>Cryptography &amp; Network Security</td> </tr> </table>	PEI	Embedded Systems/ARM	Python	Analog VLSI Design	RF microwave	DIP	PEII	IoT(WSN)	OOPS	Digital CMOS	Antenna /Pattern Recognition	Pattern Recognition	PEIII	Biomedical Instrumentation	Algorithm & Data structure	VLSI Signal Processing	Wireless Sensor Network	VLSI Signal Processing	PEIV	Automotive(Mechatronics)	OS	RF Design	RF Design/ Error control Coding	OS/AI ML	PEV	Industrial Automation(AI)	CCN/Data compression	Nano Electronics/STF A	Optical Communication /Audio Video Engg	Audio Video Engg	PEVI	Power Electronics(Power Drives)	Computer Organization/ Cryptography & Network Security	MEMS/Cryptography & Network Security	Wireless Communication / Cryptography & Network Security	Cryptography & Network Security
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PEV	Industrial Automation(AI)	CCN/Data compression	Nano Electronics/STF A	Optical Communication /Audio Video Engg	Audio Video Engg																																
PEVI	Power Electronics(Power Drives)	Computer Organization/ Cryptography & Network Security	MEMS/Cryptography & Network Security	Wireless Communication / Cryptography & Network Security	Cryptography & Network Security																																
26.05	<p>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.</p> <p><b>VIII Semester Course Code : EE1419 Analog VLSI Design</b>  <b>PE-IV Analog VLSI Design is added as an Industry Supported Elective.</b>  <b>Course Code : EE1420 Lab: Analog VLSI Design</b>  <b>We have taken feedback from Industries and as per their suggestions modified the experiment list. Minor changes are suggested in the experiment list.</b></p>																																				
26.06	<p>To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate and Postgraduate Programs.</p> <p><b>Design of Analog CMOS Integrated Circuits 1st Edition by Behzad Razavi</b>  <b>Publisher: McGraw-Hill Education; 1 edition</b></p>																																				
26.07	<p>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.)</p> <p><b>Experiment list of Analog VLSI Design subject is modified.</b></p>																																				
26.08	<p>To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board.</p> <p><b>No Change</b></p>																																				
26.9	To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.																																				



	<b>No Change</b>
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 2019-20. :-The panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs for End Semester Examination of EVEN Term 2019-20 was constituted.
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 2019-20. (Comment: Question papers of all the courses of PG programs are set and evaluated by the course instructor from EVEN Term 2019-20. The grades of the students will also be decided by the Course Instructors.) :-The panel of paper setters, Moderators and Valuers for the various theory courses at Postgraduate programs for End Semester Examination of EVEN Term 2019-20 was constituted.
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 2019-20. :-The panel of internal and external examiners for the various laboratory courses at UG and PG levels for End Semester Examination of EVEN Term 2019-20 was constituted.
26.13	Updatation/Preparation of Electronic question Bank up to VI Semester UG courses To review solutions to all questions of Electronic Question Banks for all courses upto IV SEM (SoE 2018) Preparation of Electronic question Bank for VI Semester UG courses is in Progress. To review solutions to all questions of Electronic Question Bank for all courses of V semester. (In Progress)
26.14	Any other matter with the permission of the Chair Formal Thanks to Eternal Experts on The BoS,BoS Members and member secretary.

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: 11<sup>th</sup> January 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.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	Mr. S. Y. Ambatkar	Member
11.	Faculty Member	Dr. U. S. Ghodeswar	Member
12.	Faculty Member	Mr. P. P. Zode	Member
13.	Faculty Member	Dr. P. P. Palsodkar	Member
14.	Faculty Member	Ms. P. P. Zode	Member
15.	Faculty Member	Ms. T. G. Panse	Member
16.	Faculty Member	Ms. M. N. Kalbande	Member
17.	Faculty Member	Ms. Y. A. Gaidhani	Member
18.	Faculty Member	Ms. R. S. Balpande	Member
19.	Faculty Member	Mr.P. M. Palsodkar	Member
20.	Faculty Member	Ms. A. D. Tijare	Member
21.	Faculty Member	Mr. V. D. Alagdeve	Member
22.	Faculty Member	Ms. P.A.Jadhav	Member
23.	Faculty Member	Ms. R. S. Keote	Member
24.	Faculty Member	Ms. S. A. Dhondse	Member
25.	Faculty Member	Mr. A. A. Peshattiwar	Member
26.	Faculty Member	Mr. KuldeepPande	Member
27.	Subject expert from outside the college to be nominated by the	<b>Dr. R.B.Deshmukh</b>	Member



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



Nagar Yuwak Shikshan Sanstha's  
Yeshwantrao Chavan College of Engineering  
Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University  
SoE 2018

Dept: ELECTRONICS ENGINEERING  
Scheme of Examination 2018

Sno	Sub Code	Subject	T/P	Credits
<b>III SEMESTER</b>				
1	GE2201	Engineering Mathematics - III	T	3
2	EE2201	Electronic Devices	T	4
3	EE2202	Lab: Electronic Devices	P	1
4	EE2205	Digital Logic Design	T	3
5	EE2206	Lab: Digital Logic Design	P	1
6	EE2203	Signal and Systems	T	3
7	EE2204	Lab: Computing using Python	P	1
8	EE2207	Network Analysis	T	3
9	EE2208	Lab: Network Analysis	P	1
<b>Total</b>				<b>20</b>
<b>IV SEMESTER</b>				
1	GE2204	Engineering Mathematics IV	T	3
2	EE2257	Electromagnetic Fields	T	4
3	EE2251	Electronic Circuit	T	3
4	EE2252	Lab: Electronic Circuit	P	1
5	EE2253	Microcontroller & its Applications	T	3
6	EE2254	Lab: Microcontroller & its Applications	P	1
7	EE2255	Analog Communication	T	3
8	EE2256	Lab: Analog Communication	P	1
9	EE2258	Lab: Electronic Workshp	P	1
<b>Total</b>				<b>20</b>





Nagar Yuwak Shikshan Sanstha's  
Yeshwantrao Chavan College of Engineering  
Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University  
SoE 2018

Dept: ELECTRONICS ENGINEERING  
Scheme of Examination 2018

Sno	Sub Code	Subject	T/P	Credits
<b>V SEMESTER</b>				
1	GE2312	Fundamental of Economics	T	3
2	EE2301	Control System Engineering	T	3
3	EE2302	Analog Integrated Circuits & Its Applications	T	3
4	EE2304	Lab: Analog Integrated Circuits & Its Applications	P	1
5	EE2311	PE I: Embedded Systems	T	3
	EE2313	PE I: Analog VLSI Design		
	EE2315	PE I: RF and Microwave		
	EE2317	PE I: Digital Image Processing		
	EE2319	PE I: Python		
6	EE2312	Lab: PE I: Embedded Systems	P	1
	EE2314	Lab. PE I: Analog VLSI Design		
	EE2316	Lab. PE I: RF and Microwave		
	EE2318	Lab. PE I: Digital Image Processing		
	EE2320	Lab. PE I: Python		
7	EE2331	OE-I: Fuzzy Logic & Neural Network	T	3
	EE2332	OE-I: Basics of Analog and Digital Communication		
	EE2333	OE-I: Biomedical Instrumentation		
8	EE2341	OE-II: Data Acquisition & Signal Conditioning	T	3
	EE2342	OE-II: Fundamentals of Microprocessor		
	EE2343	OE-II: Consumer Electronics		
9		IND Visit and its Report	P	1
<b>Total</b>				<b>21</b>
<b>VI SEMESTER</b>				
1	GE2311	Fundamental of Management	T	3
2	EE2351	Digital Signal Processing	T	3
3	EE2352	Lab. Digital Signal Processing	P	1
4	EE2353	Transmission Lines and Waveguides	T	3
5	EE2354	Digital Communication	T	3
6	EE2355	Lab. Digital Communication	P	1
7	EE2363	PE II: Internet of Things	T	3
	EE2361	PE II: Digital CMOS Circuits		
	EE2365	PE II: Antenna		
	EE2367	PE II: Pattern Recognition		
	EE2369	PE II: Object Oriented Programming		
8	EE2362	Lab: PE II: Internet of Things	P	1
	EE2312	Lab. PE II: Digital CMOS Circuits		
	EE2366	Lab: PE II: Antenna		
	EE2368	Lab: PE II: Pattern Recognition		
9	EE2370	Lab: PE II: Object Oriented Programming	T	3
	EE2331	OE-III: Fuzzy Logic & Neural Network		
	EE2332	OE-III: Basics of Analog and Digital Communication		
10	EE2333	OE-III: Biomedical Instrumentation	T	3
	EE2341	OE-IV: Data Acquisition & Signal Conditioning		
	EE2342	OE-IV: Fundamentals of Microprocessor		
	EE2343	OE-IV: Consumer Electronics		
<b>Total</b>				<b>24</b>





Nagar Yuwak Shikshan Sanstha's  
Yeshwantrao Chavan College of Engineering  
Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University  
SoE 2018

Dept: ELECTRONICS ENGINEERING  
Scheme of Examination 2018

Sno	Sub Code	Subject	T/P	Credits
<b>VII SEMESTER</b>				
1	EE2401	Digital System Design	T	3
2	EE2402	Lab. Digital System Design	P	1
3	EE2411	PE III: Biomedical Instrumentation	T	3
	EE2412	PE III : Switching Theory & Finite Automata		
	EE2413	PE III: Wireless Sensor Network		
	EE2414	PE III: VLSI Signal Processing		
	EE2415	PE III :Algorithm & Data Structure		
4	EE2421	PE IV: Automotive(Mechatronics)	T	3
	EE2423	PE IV: RF Circuit Design		
	EE2425	PE IV: Error Control Coding		
	EE2427	PE IV: Machine Learning		
	EE2429	PE IV: Operating Systems		
5	EE2422	Lab. : PE IV: Automotive(Mechatronics)	P	1
	EE2424	Lab. : PE IV: RF Circuit Design		
	EE2426	Lab. : PE IV: Error Control Coding		
	EE2428	Lab. : PE IV: Machine Learning		
	EE2430	Lab. : PE IV: Operating Systems		
6	EE2431	PE V: Industrial Automation	T	3
	EE2432	PE V: Nano Electronics		
	EE2433	PE V: Optical Communication		
	EE2434	PE V: Audio Video Engineering		
	EE2435	PE V: Computer Communication Network		
7	EE2441	PE-VI: Power Electronics	T	3
	EE2442	PE-VI: MEMS		
	EE2443	PE-VI: Wireless Communication		
	EE2444	PE-VI: Cryptography and Network Security		
	EE2445	PE-VI: Computer Organization		
8	EE2409	Mini Project	P	2
9	EE2410	CRT	P	2
<b>Total</b>				<b>21</b>
<b>VIII SEMESTER</b>				
1	EE	Major Project/Industrial Internship Evaluation	P	9
2	EE	Extra curricular Activity Evaluation	P	1
<b>Total</b>				<b>10</b>
				<b>116</b>



# Yeshwantrao Chavan College of Engineering, Nagpur

## Department of Electronics Engineering

**Session:2019-20**

Name of Laboratory:**DSD Lab**

LabSubject:**PE IV : Lab-Analog VLSI Design**

Course Code:**EE 1420**

Semester / Branch:**VIII SEM EE Department**

Objective	Outcomes
This laboratory course will give modeling of circuits, circuit characterization and performance extraction of CMOS circuits. To give basic understanding of non linear circuits such as comparator design.	<ol style="list-style-type: none"> <li>1. Students will be able to simulate MOS devices and CMOS circuits with SPICE: AC, DC, Transients</li> <li>2. Students will be able to design and analyze basic analog functional module designs such as current mirrors, active load, biasing circuits.</li> <li>3. Students will be able to understand such as single stage amplifier, differential amplifier and operational amplifier.</li> <li>4. Students will be able to design single stage amplifier, differential amplifier and operational amplifier</li> </ol>

Expt. No.	Name of Experiments	Mapped CO's
1.	To plot VI characteristics of NMOS and calculate $V_{th}$ and $g_m$ .	
2.	To plot VI characteristics of PMOS and calculate $V_{th}$ and $g_m$ .	
3.	Design Single Stage Common Source Amplifier	
4.	Design Single Stage Common Drain Amplifier	
5.	Design Single Stage Common Gate Amplifier	
6.	Design Differential Amplifier	
7.	Design of Current Mirror.	
8.	Design of single stage Operational amplifier	
9.	Design of Two- stage Operational amplifier	
10.	To Study advanced analysis techniques such as process voltage Temperature (PVT) Simulation and Monte Carlo Simulation.	
11	Mini project	



## Regarding Cadence Workshop

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From: pravin zode (pravinzode@yahoo.com)  
To: swapnil.moon@entuple.com  
Cc: ptkarule@gmail.com; ptkarule@rediffmail.com; ptkarule@ycce.edu  
Date: Thursday, 14 November, 2019, 12:47 pm IST

---

Dear Swapnil,

We wish to conduct the training on **Analog VLSI Design** in first week of January 2020

Syllabus of Analog VLSI Design is attached herewith for the content delivery.

The contents are from "**Design of Analog CMOS Integrated circuits**", Behzad Razavi. Book and marked in red color in syllabus for your reference.

Please prepare agenda accordingly for three days.

Thanks,

**Dr. Pravin P. Zode**  
Assistant Professor,  
Department of Electronics Engg.  
Yeshwantrao Chavan College of Engineering,  
Wanadongri, Hingna Road,  
Nagpur - 441110 ( M.S.)  
Email : pravinzode@yahoo.com  
Mobile : 09850985578



Think Green-Print Only When Necessary.



Syllabus of Analog VLSI Design.pdf  
78.3kB



Re: Industry Aligned Elective-Analog VLSI Design

<https://mail.yahoo.com/d/folders/1/messages/145058>

central India affiliated to Rashtrasant Tukadoji Maharaj Nagpur University. Also, institute is awarded with 'A' Grade by National Assessment and Accreditation Council (NAAC).

Department of Electronics Engineering has been established in 1984 and accredited by NBA. Department is currently running B. E. Electronics Engg. with intake of 120 and department is approved research center of RTM. Nagpur University, Nagpur. 28 Scholars completed PhD, 12 submitted Thesis and 7 research scholars pursuing PhD in the department. Department having 9 approved supervisors for PhD work.

Being an Autonomous Institute, we have started the industry align Electives course: **Analog VLSI Design**. In that, we expect following collaborative activities with your organization.

1. Redrafting of syllabus
2. Partial content delivery for students as per your convenient time for one or two hours in a day. (Min 8 to 10 Hrs in one semester)
3. To get exposure to research to our undergraduate students, we can plan internship at your organization

Syllabus of Analog VLSI Design is attached with this mail for your reference. Please share your feedback regarding contents and suggest modification if any needed.

We require the association with your organization to fulfill the above activities so kindly allow to process it.

Looking for positive reply.

Thanking you for anticipation.

Yours faithfully,

**Dr. Pravin P. Zode**

Assistant Professor,

Department of Electronics Engg.

Yeshwantrao Chavan College of Engineering,

Wanadongri, Hingna Road,

Nagpur - 441110 ( M.S.)

Email : [pravinzode@yahoo.com](mailto:pravinzode@yahoo.com)

Mobile : 09850985578



Think Green-Print Only When Necessary.



Regarding syllabus modifications

From: Pranav Bawane (pranav.bawane1@gmail.com)

To: ptkarule@gmail.com; pravinzode@yahoo.com

Date: Wednesday, 4 December, 2019, 11:36 pm IST

Dear Sir,

The contents of the syllabus are good and don't need any modifications.

You may include more practical based examples in teaching subject.

The unitization of the syllabus is proper.

Regards,

Pranav Bawane  
Senior Engineer,  
Samsung R&D Institute, Bangalore



Industry Aligned Course Syllabus revision and Review

From: Dhananjay Jadhav (dhananjay.jadhav001@gmail.com)

To: pravinzode@yahoo.com

Cc: ptkarule@gmail.com

Date: Tuesday, 17 December, 2019, 12:07 pm IST

Dear Sir,

I am glad to hear from you.

This is very good initiative to introduce the course on Analog VLSI Design.

The overall course content is well structured to understand the concept on Analog Design. As per VLSI industry point of view the understanding of Analog Design will be helpful for student to jell with the industry. The contents delivery should be stick to the design of building blocks of analog design.

I suggest you to include the following practical's in your laboratory

- Characterization of MOS
- Single Stage Amplifier (Common Source / Source Follower / Common Gates)
- Gilbert Cell Multiplier
- Differential Amplifier
- Differential Pair with MOS Loads
- Current Mirror
- One State or Two Stage Operational Amplifier

Use of Cadence and Synopsys tool-kits for the lab work is recommended.

Hope this will be helpful for you to develop VLSI enthusiastic Engineers from the institute.

Please feel free to contact for any such activities.

Thanks

Regards,  
Dhananjay G Jadhav  
Design Engineer @ Intel, Bangalore  
+91-8446441016



Industry Aligned Elective-Analog VLSI Design

From: pravin zode (pravinzode@yahoo.com)  
To: gaurav.vivek@tessolve.com  
Cc: ptkarule@gmail.com  
Date: Thursday, 14 November, 2019, 12:07 pm IST

Dear Sir,

Yeshwantrao Chavan College of Engineering, Nagpur is an autonomous institution of central India affiliated to Rashtrasant Tukadoji Maharaj Nagpur University. Also, institute is awarded with 'A' Grade by National Assessment and Accreditation Council (NAAC).

Department of Electronics Engineering has been established in 1984 and accredited by NBA. Department is currently running B. E. Electronics Engg. with intake of 120 and department is approved research center of RTM. Nagpur University, Nagpur. 28 Scholars completed PhD, 12 submitted Thesis and 7 research scholars pursuing PhD in the department. Department having 9 approved supervisors for PhD work.

Being an Autonomous Institute, we have started the industry align Electives course: **Analog VLSI Design**. In that, we expect following collaborative activities with your organization.

1. Redrafting of syllabus
2. Partial content delivery for students as per your convenient time for one or two hours in a day. (Min 8 to 10 Hrs in one semester)
3. To get exposure to research to our undergraduate students, we can plan internship at your organization

Syllabus of Analog VLSI Design is attached with this mail for your reference. Please share your feedback regarding contents and suggest modification if any needed.

We require the association with your organization to fulfill the above activities so kindly allow to process it.

Looking for positive reply.

Thanking you for anticipation.

Yours faithfully,  
**Dr. Pravin P. Zode**  
Assistant Professor,  
Department of Electronics Engg.  
Yeshwantrao Chavan College of Engineering,  
Wanadongri, Hingna Road,  
Nagpur - 441110 ( M.S.)  
Email : pravinzode@yahoo.com  
Mobile : 09850985578



Think Green-Print Only When Necessary



Syllabus of Analog VLSI Design.docx  
15.8kB



Re: Industry Aligned Elective-Analog VLSI Design

From: Gaurav Vivek (gaurav.vivek@tessolve.com)

To: pravinzode@yahoo.com

Cc: ptkarule@gmail.com

Date: Saturday, 30 November, 2019, 11:12 am IST

Dear Sir,  
Syllabus contents are proper. Razavi book is good and you may consider few contents from Baker book.

Basic concepts are covered well. However applications of the basic devices and concepts should also be covered for example, Bandgap References (BGR), Low Drop Out Voltage Regulator (LDO), DC to DC converters, Phase Locked Loops (PLL), some Analog Mixed Signal (AMS) blocks such as ADCs and DACs and some small blocks such as Level shifters, Power Gates, etc.

The above topics can be assigned to students as final year projects. Students need to understand where these blocks are used in real life application. This will help develop interest in Analog VLSI domain.

Industry standard practicals and assignments should be planned.

Practicals should include the following things (According to units):-

Unit 1 - Device characterization (calculation of  $V_{th}$ , gm, rds, etc).

Unit 3 & 5 - Characterization of the Amplifier (Band width, slew rate, max freq. of operation, etc) and effect of variation in load.

Other types simulations such as Process Voltage Temperature (PVT) simulations, Monte Carlo simulations should also be explained and practiced. These simulations are used for design verification before the chip goes for fabrication.

Rest everything is fine. If you require and further information, feel free to contact me.

Regards,  
Gaurav Hatwalne  
Design Engineer  
Tessolve Semiconductors Pvt. Ltd.  
+91 7744960921

---

**From:** pravin zode <pravinzode@yahoo.com>  
**Sent:** Thursday, November 14, 2019 12:07 PM  
**To:** Gaurav Vivek <gaurav.vivek@tessolve.com>  
**Cc:** Pradeep Karule <ptkarule@gmail.com>  
**Subject:** Industry Aligned Elective-Analog VLSI Design

**CAUTION:** This email originated from outside the Organization. Do not open Link or Attachments unless you recognize the sender and know the content is safe.

Dear Sir,

Yeshwantrao Chavan College of Engineering, Nagpur is an autonomous institution of



1<sup>st</sup> January 2020**Notice of Meeting**

To,

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

Dear Sir/ Madam,

The 21<sup>st</sup> meeting of the Board of Studies in **Electronics & Telecommunication Engineering** is scheduled on **Saturday, 4<sup>th</sup> January 2020 at 09:30 am** in the **Department of Electronics & Telecommunication Engineering, YCCE, Nagpur.**

The agenda for the meeting shall be as follows:

ITEM NO.	AGENDA POINT
21.01	Welcome of new members
21.02	Installation of member Secretary
21.03	Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.
21.04	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.
21.05	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.
21.06	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.
21.07	To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under-Graduate and Post Graduate programs.
21.08	To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board.
21.09	To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.
21.10	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 2019-20
21.11	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 2019-20
21.12	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





Nagar Yuwak Shikshan Sanstha's

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	End Semester Examination Even Term 2019-20
21.13	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)
21.14	Any other matter with the permission of the Chair.

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



Nagar YuwakShikshanSanstha's

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S. No.	Name	Designation	Sign	Name	Designation	Sign
1	Dr. M. M. Mushrif	Member		Dr. P. D. Dorge	Member	
2	Dr.M.D. Chawhan	Member		S.A.Desai	Member	
3	R.P.Deshmukh	Member		V.D. Bondre	Member	
4	Dr. P.W. Raut	Member		B.Y. Masram	Member	
5	Dr. D.B.Bhoyar	Member		Y. S. Kale	Member	
6	K.P.Kamble	Member		V.B.Niranjane	Member	
7	Dr. Mrs. Y.U.Chitriv (Dubey)	Member		A.A.Madankar	Member	
8	Dr. A.D.Belsare	Member		R.P.Kamdi	Member	
9	Dr. N.D.Rehpade	Member		D.K.Thote	Member	
10	A.V.Choudhari	Member		M.S.Patil	Member	
11	N.A.Pande	Member		R.S.Keote	Member	
12	Dr. S.S.Khade	Member		S.R.Nitnaware	Member	
13	C.S.Gode	Member				
14	M.S.Ghute	Member				
15	S.S.Chiwande	Member				
16	M.L.Keote	Member				





**Minutes of the 21<sup>st</sup> BOS Meeting**

**Date: 4<sup>th</sup> January 2020**

The 21<sup>st</sup> BOS of **Electronics and Telecommunication Engineering** was held on **Saturday, 4<sup>th</sup> January 2020 at 9.30 am** in the Department library.

The meeting was attended by the following members of BOS.

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



Nagar YuwakShikshanSanstha's  
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Sr. No.	Name	Designation	Sign	Name	Designation	Sign
1	Dr M.S.Narlawar	Chairman		S.S.Chiwande	Member	
2	Dr M.S.Dorle	Member Secretary		M.L.Keote	Member	
3	Dr M. M. Mushrif	Member		Dr. P. D. Dorge	Member	
4	Dr M.D. Chawhan	Member		S.A.Desai	Member	
5	R.P.Deshmukh	Member		V.D. Bondre	Member	
6	Dr P.W.Raut	Member		B.Y. Masram	Member	
7	Dr D.B.Bhoyar	Member		Y. S. Kale	Member	
8	K.P.Kamble	Member		V.B.Niranjane	Member	
9	Dr Mrs Y.U.Chitriv (Dubey)	Member		A.A.Madankar	Member	
10	Dr. A.D.Belsare	Member		R.P.Kamdi	Member	
11	Dr N.D.Rehpade	Member		D.K.Thote	Member	
12	A.V.Choudhari	Member		M.S.Patil	Member	
13	N.A.Pande	Member		R.S.Keote	Member	
14	Dr S.S.Khade	Member		S.R.Nitnaware	Member	
15	C.S.Gode	Member				
16	M.S.Ghute	Member				





**Minutes of the 21<sup>st</sup> BOS Meeting**

**Date: 4<sup>th</sup> January 2020**

The 21<sup>st</sup> BOS of **Electronics and Telecommunication Engineering** was held on **Saturday, 4<sup>th</sup> January 2020** at **9.30 am** in the Department library.

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	Absent
04	Mr. Satish 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.A.G.Keskar, VNIT, Nagpur
2.	Prof. B.Y. Masram ET, YCCE



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

ITEM NO.	AGENDA POINT
21.01	Welcome of new members. ----
21.02	Installation of member Secretary. -----
21.03	<b>Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.</b>  The minutes of the 20 <sup>th</sup> BOS meeting held on, <b>19<sup>th</sup> July 2019</b> in Electronics and Telecommunication Engineering Department were placed on the table and were confirmed unanimously.
21.04	<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>  The Scheme of Examination of the courses offered in Autonomous 2014 & Autonomous 2018 Scheme of the Undergraduate and Post graduate programs have been discussed and following changes were approved. <ul style="list-style-type: none"><li>• In 8<sup>th</sup> semester one course in collaboration with research organization under professional elective IV with course title “Digital image Analysis for Remote Sensing” has been proposed in <b>Scheme of Examination Autonomous 2014.</b></li><li>• <b>In Scheme of Examination Autonomous 2018 following changes were approved.</b><ul style="list-style-type: none"><li>○ One Professional Elective VI with course title “Principles of Image Processing” was proposed to shift from 7<sup>th</sup> semester to 6<sup>th</sup> semester as Professional elective II to include Laboratory with the Theory course.</li><li>○ It was also proposed to include one course in collaboration with research organization as Professional elective VI with course title “Digital image Analysis for Remote Sensing” in 7<sup>th</sup> semester.</li><li>○ It was proposed to add two courses titled “Fundamentals of Computing” and “Algorithms and data structures” as Professional elective-I in 6<sup>th</sup> Sem.</li><li>○ It was proposed to add one course titled “TV and Video Engineering “as Professional elective-II in 6<sup>th</sup> Sem.</li></ul></li></ul>





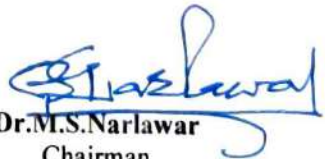
21.05	<p><b>To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2014 &amp; Autonomous 2018 Schemes of Undergraduate and Post graduate programs conducted under the Board.</b></p> <p>Minor Changes have been suggested by experts and were incorporated in UG syllabus for following Courses ET 2205 : Electronic Measurement and Instrumentation ET 2351: Digital signal Processing</p>
21.06	<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>Minor Changes have been suggested by experts in following UG Courses. ET 2303: Fields and Radiating systems</p> <ul style="list-style-type: none"><li>• Add book on "Antennas" by John D.Krauss publisher McGraw - Hill International edition</li></ul> <p>ET 2201: Electronics Devices and Circuits</p> <ul style="list-style-type: none"><li>• Remove book titled "OP-AMPS and Linear Integrated Circuits" by Ramakant Gayakwad from syllabus</li></ul>
21.07	<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>
21.08	<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>
21.09	<p><b>To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.</b></p> <p>-----</p>
21.10	<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 2019-20</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 2019-20 have been prepared and proposed under YA11 of YCCE.</p>



21.11	<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 2019-20.</b></p> <p>The panel of paper setters, Moderators and Valuers for the various theory courses at Postgraduate programs that will be examined in End Semester Examination of EVEN Term 2019-20 have been prepared, proposed and submitted under YAI1 format of YCCE.</p>
21.12	<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 of ODD Term 2019-20.</b></p> <p>The panel of internal and external examiners for the various laboratory courses at UG and PG levels that will be examined in End Semester Examination of EVEN term 2019-20 have been finalized and submitted in the form of YA12 format.</p>
21.13	<p><b>Updatation /Preparation of Electronic question Bank up-to VI Sem UG courses To review solutions to all questions of Electronic Question Banks for all courses up-to IV SEM (SoE 2018)</b></p> <p>Electronics Question Bank completed and validated up-to VI semester. But, Question bank of III &amp; IV semester was modified as per new question paper pattern was discussed and approved by BoS.</p> <p><b>Solutions of all Electronic Question Banks up-to IV semester were ready as per old question paper pattern and was decided to complete as per new question paper pattern after validation of question bank.</b></p>
21.14	<p><b>Any other matter with the permission of the Chair.</b></p> <ul style="list-style-type: none"><li>• BoS experts have suggested to keep the marking pattern of ESE flexible.</li><li>• Certain suggestions were given regarding COs. They have suggested to use the key words so that the COs will be measurable and observable.</li></ul>

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

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

  
**Dr.M.S.Narlawar**  
Chairman  
BoS , ET





17<sup>th</sup> July 2019

## Notice of Meeting

To,

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

Dear Sir/ Madam,

The 20<sup>th</sup> meeting of the Board of Studies in **Electronics & Telecommunication Engineering** is scheduled on **Friday, 19<sup>th</sup> July 2019** at **10:00 am** in the **Department of Electronics & Telecommunication Engineering, YCCE, Nagpur.**

The agenda for the meeting shall be as follows:

ITEM NO.	AGENDA POINT
20.01	Welcome of new members
20.02	Installation of member Secretary
20.03	Confirmation of minutes of previous Meeting and action taken report decisions/suggestions of the previous meeting.
20.04	To discuss and suggest the changes in the Scheme of Examination (kin... Autonomous 2014 & Autonomous 2018) of the Undergraduate and Post graduate programs conducted under the Board
20.05	To discuss and suggest the minor changes in the syllabi of various courses Autonomous 2014 & Autonomous 2018 Schemes of Undergraduate and Post graduate programs conducted under the Board.
20.06	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.
20.07	To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under-Graduate and Post Graduate programs.
20.08	To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board.
20.09	To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.
20.10	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 the Semester Examination of Odd Term 2019-20
20.11	To prepare and propose the list of question paper setters and evaluators for the Postgraduate courses under the Board that will be examined in End Semester Examination of Odd Term 2019-20
20.12	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 2019-20
20.13	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
20.14	To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses.
20.15	Any other matter with the permission of the Chair.

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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SNo.	Name	Designation	Sign	Name	Designation	Sign
1	Dr. M. M. Mushrif	Member		Dr P D Dorge	Member	
2	Dr.M.D. Chawhan	Member		S.A.Desai	Member	
3	R.P.Deshmukh	Member		V.D Bondre	Member	
4	Dr. P.W. Raut	Member		B.Y. Masram	Member	
5	Dr. D.B.Bhoyar	Member		Y. S. Kale	Member	
6	K.P.Kamble	Member		V.B.Niranjane	Member	
7	Dr. Mrs. Y.U.Chitriv (Dubey)	Member		A.A.Madankar	Member	
8	Dr. A.D.Belsare	Member		R.P.Kamdi	Member	
9	Dr. N.D.Rehpade	Member		D.K.Thote	Member	
10	A.V.Choudhari	Member		M.S.Patil	Member	
11	N.A.Pande	Member		R.S.Keote	Member	
12	Dr S.S.Khade	Member		S.R.Nitnaware	Member	
13	C S Gode	Member		A.A. Jankar	Member	
14	M S Ghute	Member				
15	S S Chiwande	Member				
16	M.L.Keote	Member				



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SNo.	Name	Designation	Sign	Name	Designation	Sign
1	Dr. M. M. Mushrif	Member		Dr. P. D. Dorge	Member	
2	Dr.M.D. Chawhan	Member		S.A.Desai	Member	
3	R.P.Deshmukh	Member		V.D. Bondre	Member	
4	Dr. P.W. Raut	Member		B.Y. Masram	Member	
5	Dr. D.B.Bhoyar	Member		Y. S. Kale	Member	
6	K.P.Kamble	Member		V.B.Niranjane	Member	
7	Dr. Mrs. Y.U.Chitriv (Dubey)	Member		A.A.Madankar	Member	
8	Dr. A.D.Belsare	Member		R.P.Kamdi	Member	
9	Dr. N.D.Rehpade	Member		D.K.Thote	Member	
10	A.V.Choudhari	Member		M.S.Patil	Member	
11	N.A.Pande	Member		R.S.Keote	Member	
12	Dr. S.S.Khade	Member		S.R.Nitnaware	Member	
13	C.S.Gode	Member		A. A. Pankh	Member	
14	M.S.Ghute	Member				
15	S.S.Chiwande	Member				
16	M.L.Keote	Member				





Minutes of the 20<sup>th</sup> BOS Meeting

**Date: 19<sup>th</sup> July, 2019**

The 20<sup>th</sup> BOS of **Electronics and Telecommunication Engineering** was held on **19<sup>th</sup> July, 2019** at 10:00 AM in the Department library.

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	
03	Dr. A.G. Keskar, VNIT, Nagpur	
04	Mr. Satish Awari, Director, Samartha Electro Care Pvt.Ltd.,Nagpur	
05	Mr.Anirudhha Kalbande, Director Fireblaze Technologies Pvt.Ltd.Nagpur	Absent



Nagar YuwakShikshanSanstha's  
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Sr. No.	Name	Designation	Sign	Name	Designation	Sign
1	Dr M.S.Narlawar	Chairman		S.S.Chiwande	Member	
2	Dr M.S.Dorle	Member Secretary		M.L.Keote	Member	
3	Dr. M. M. Mushrif	Member		Dr. P. D. Dorge	Member	
4	Dr.M.D. Chawhan	Member		S.A.Desai	Member	
5	R.P.Deshmukh	Member		V.D. Bondre	Member	
6	Dr. P.W. Raut	Member		B.Y. Masram	Member	
7	Dr. D.B.Bhojar	Member		Y. S. Kale	Member	
8	K.P.Kamble	Member		V.B.Niranjane	Member	
9	Dr. Mrs. Y.U.Chitriv (Dubey)	Member		A.A.Madankar	Member	
10	Dr. A.D.Belsare	Member		R.P.Kamdi	Member	
11	Dr. N.D.Rehpade	Member		D.K.Thote	Member	
12	A.V.Choudhari	Member		M.S.Patil	Member	
13	N.A.Pande	Member		R.S.Keote	Member	
14	Dr. S.S.Khade	Member		S.R.Nitnaware	Member	
15	C.S.Gode	Member				
16	M.S.Ghute	Member				





**Minutes of the 20<sup>th</sup> BOS Meeting**

**Date: 19<sup>th</sup> July 2019**

The 20<sup>th</sup> BOS of **Electronics and Telecommunication Engineering** was held on **Thursday, 19<sup>th</sup> July 2019** at **10:00 am** in the Department library.

The meeting was attended by the following members of BOS.

Sr. No	Name	Signature
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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	Present
05	Mr.Anirudhha Kalbande, Director Fireblaze Technologies Pvt.Ltd.Nagpur	Absent

Leave of absence was granted to –

Sr. No	Name
1.	Dr. K.D.Kulat, VNIT, Nagpur (VC Nominee)
2.	Mr.Anirudhha Kalbande, Director Fireblaze Technologies Pvt.Ltd.Nagpur
3.	Dr.M.M.Mushrif,Member



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

ITEM NO.	AGENDA POINT
20.01	<b>Welcome of new members.</b> BoS Chairman Dr. M. S. Narlawar welcomes, Prof. R. S. Keote and Prof. S.R. Nitnaware to the department of ET, YCCE, Nagpur
20.02	<b>Installation of member Secretary.</b> BoS Chairman : Dr. M.S. Narlawar, HOD, ET Member Secretary : Dr. M. S. Dorle, Assistant, Prof. ET Sub-Committee members: Dr. D. B. Bhoyar, Member, UG, ET Prof. S. A. Desai, Member, PG, Communication Engineering. Prof V.B. Niranjane, Member
20.03	<b>Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.</b> The minutes of the 19 <sup>th</sup> BOS meeting held on, <b>10<sup>th</sup> January 2019</b> in Electronics and Telecommunication Engineering were placed on the table and were confirmed unanimously.
20.04	<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> The Scheme of Examination of the courses offered in Autonomous 2014 & Autonomous 2018 Scheme of the Undergraduate and Post graduate programs has been discussed and finalized. No Changes have been proposed.
20.05	<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. Add a dynamic line i.e. new topic to be announced time to time in sixth unit of syllabus wherever possible.
20.06	<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> No changes have been proposed.





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20.07	<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>Minor changes have been proposed in the course syllabus for Autonomous 2018 scheme as follows</p> <p>V Semester ET 2302 AIC Lab: Clipper, Clamper related experiments may be included in experiment list.</p>
20.08	<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>
20.09	<p><b>To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.</b></p> <p>Joy of Computing –Python proposed as MOOCs course. Appreciated decision of incorporating Joy of Computing –Python as elective course in sixth semester.</p>
20.10	<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 2019-20</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 2019-20 have been prepared and proposed under YA11 of YCCE.</p>
20.11	<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 2019-20.</b></p> <p>The panel of paper setters, Moderators and Valuers for the various theory courses at Postgraduate programs that will be examined in End Semester Examination of Odd Term 2019-20 have been prepared, proposed and submitted under YA11 format of YCCE.</p>
20.12	<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 of ODD Term 2019-20.</b></p> <p>The panel of internal and external examiners for the various laboratory courses at UG and PG levels that will be examined in End Semester Examination of ODD term 2019-20 have been finalized and submitted in the form of YA12 format.</p>

# YeshwantraoChavan College of Engineering

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20.13	<p><b>Preparation of Electronic question Bank for VII and VIII Sem UG courses</b> <b>To review solutions to all questions of Electronic Question Banks for all courses of V SEM.</b></p> <p>Preparation of Electronic question bank for VIII Sem UG courses is going on.</p> <p>The question bank for VII Sem is completed &amp; validation of VII Semester question bank will be completed.</p>
20.14	<p><b>To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses.</b></p> <p>Mid Semester Examination 3 on unit 5 &amp; 6 of the syllabus will be implemented from the current academic year. Maximum marks obtained by students in any two out of the three MSEs will be considered for their final evaluation.</p>
20.15	<ul style="list-style-type: none"><li>• Redefined PEOs are discussed in BoS and are approved</li></ul> <p><b>Any other matter with the permission of the Chair.</b></p> <p>Chairman was authorized to finalize the SOE</p>

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



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



**Dr.M.S.Narlawar**  
Chairman  
BoS , ET





Nagar YuwakShikshanSanstha's

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### Department of Computer Technology

## Boards of Studies in Computer Technology

### Minutes of the Meeting No. 22

Meeting No. 22,

Date:20<sup>th</sup> July 2019

Meeting no. 22 of the Board of Studies in Computer Technology was held on 20<sup>th</sup> July 2019 at 10.00 A.M. in the Department library of Computer Technology department.

The meeting was attended by the following members of BoS.

External Members:

S.N.	Name of Honorable External Member	Position held in BoS
1.	Dr. U. A. Deshpande	External Expert
2.	Mr. Ajit Dharmik	Industry Expert

Faculty Members:

1. G. M. Dhopavkar
2. T. R. Ravi
3. S. D. Kamble
4. L. B. Damahe
5. S. R. Kapse
6. R. D. Wajgi
7. N. M. Jichkar
8. N. U. Sambhe
9. P. V. Barekar
10. S. S. Thombre
11. A. S. Pande

Leave of absence was granted to:

1. Dr. N. Bawane (Nominee, RTM University)
2. Mr. Vaibhav Deshpande (Alumni)
3. G. A. Choudhary
4. R. S. Khedgaonkar
5. N. Mangrulkar
6. G. Yenurkar
7. Dr. S. J. Karale
8. A. R. Bhagat Patil
9. R. Bhanuse
10. K. R. Singh
11. D. Deshmukh

The following agenda points were deliberated in the meeting

22.01	<p>Welcome of new members</p> <p><b>Dr. G. M. Dhopavkar, chairperson of CT BoS, informed about inclusion of Mr. A. S. Pande and Mrs. D. Deshmukh as a BoS new member at BoS, Computer Technology from session 2019-20 onwards.</b></p>
22.02	<p>Installation of member Secretary</p> <p><b>Already Installed in Odd sem 2018-19</b></p> <p><b>Dr. Mrs. G. M. Dhopavkar – Chairman</b></p> <p><b>Dr. S. D. Kamble – Member Secretary</b></p> <p><b>Mr. L. B. Damahe – Member</b></p> <p><b>Mrs. R.D.Wajgi – Member</b></p>
22.03	<p>To confirm the minutes of 21<sup>th</sup> Meeting of BoS.</p> <p><b>The minutes of the 21<sup>st</sup> Meeting of BoS in Computer Technology and 8<sup>th</sup> CDW meeting held on 25<sup>th</sup> Jan 2019 and 29<sup>th</sup> April 2019 respectively were placed on the table by Chairman Dr.G. M. Dhopavkar and were confirmed unanimously.</b></p>
22.04	<p>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</p> <p><b>In UG SoE (known as Autonomous 2018) in 5<sup>th</sup> semester PE-I “Advanced Web Technologies” is proposed instead of Salesforce-CRM and Suggested to introduce a MOOC Course based on availability of Swayam 2020 course list.</b></p> <p><b>Rename CT2253 Advance Data Structures with Advanced Data Structures and CT2254 Lab: Advance Data Structures with Lab: Advanced Data Structures</b></p> <p><b>In UG SoE (2014 Scheme) in 6<sup>th</sup> semester PE-I “CRM SYSTEM” a new course is proposed.</b></p> <p><b>Following Courses were identified for the improvement in employability, skill development and Entrepreneurship:</b></p> <p><b>CT1349 PE I: Business Intelligence and its Applications</b></p> <p><b>CT1350 Lab. :PE I: Business Intelligence and its Applications</b></p> <p><b>CT1353 PE I: : Introduction to Geographical Information System</b></p> <p><b>CT1354 Lab. :PE I: : Introduction to Geographical Information System</b></p> <p><b>CT2206 Lab: Python Programming</b></p> <p><b>CT2207 Lab: Web Technology</b></p> <p><b>CT2202 Object Oriented Programming</b></p> <p><b>CT2203 Lab: Object Oriented Programming</b></p> <p><b>CT2321/2371: OE I / III: Introduction to DBMS</b></p> <p><b>CT2333/2383: OE II/IV: Internet Technology</b></p>



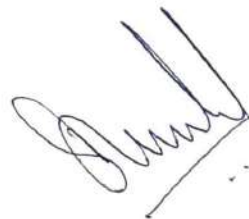
22.05	<p>To discuss and suggest the minor changes in the syllabi of various courses in Autonomous 2014 Schemes of and Post graduate programs conducted under the Board.(Comment: Consider the remarks given by the faculty in course completion reports of previous terms)</p> <p><b>Minor changes in syllabi of following undergraduate courses in Autonomous 2018 Scheme:</b>  <b>CT2257: Database Management Systems: Unit I to III based on basics of DBMS and unit IV to VI based on SQL.</b>  <b>CT 2323/2373: OEI / III: Digital Image Processing- Suggested to remove contents such as Fourier Transform, DFT,IDFT, and some topics from image representation and compression.</b>  <b>CT2321/2371: OE I / III: Introduction to DBMS –Suggested to add Date, string, arithmetic function of SQL instead of XML in Unit-VI.</b>  <b>CT2333/2383: OE II/IV: Internet Technology- Suggested to remove contents such as Flow Control, Error Control, Congestion control, CGI Script, java</b>  <b>CT 2315: PE-I: Rough outline of the course Advanced Web Technologies is proposed by AjitDharmik sir (Industry Expert) and this course will be refined in next meeting of BoS in Computer Technology i.e. 23th BoS meeting.</b>  <b>CSE3907 : PE I: Advanced Digital Image Processing</b>  <b>CSE3908 : PE I: Ethical Hacking</b>  <b>CSE3910 : PE I: Grid and Cloud Computing</b></p> <p>Following Courses were identified for the improvement in employability, skill development and Entrepreneurship:  <b>CT1349 PE I: Business Intelligence and its Applications</b>  <b>CT1350 Lab. :PE I: Business Intelligence and its Applications</b>  <b>CT1353 PE I: : Introduction to Geographical Information System</b>  <b>CT1354 Lab. :PE I: : Introduction to Geographical Information System</b>  <b>CT2206 Lab: Python Programming</b>  <b>CT2207 Lab: Web Technology</b>  <b>CT2202 Object Oriented Programming</b>  <b>CT2203 Lab: Object Oriented Programming</b>  <b>CT2201/2271: OE I / III: Introduction to DBMS</b></p>
22.06	<p>To discuss and suggest the changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate and Postgraduate Programs.</p> <p><b>No Change</b></p>
22.07	<p>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.)</p> <p><b>In UG SoE (2014 Scheme) in 6<sup>th</sup>semester PE-I “CRM SYSTEM” a new lab course is proposed.</b>  <b>CSE3915: Software Lab 1 – Suggested to add Python: List, tuples, dictionaries, arrays in unit-III and remove J2EE information from unit-II</b>  <b>CSE3931: Software Lab 2 –Suggested to remove atopic on Makefile, Linklist,Stack,java native interface etc. and introduce topic based on web designing</b></p>
22.08	<p>To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board.</p> <p><b>No Change.</b></p>
22.9	<p>To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.</p> <p><b>Suggested to introduce a MOOC Course based on availability of Swayam 2020 course list.</b></p>
22.10	<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 2019-20.</p> <p><b>The panel of paper setters, Moderators and Valuers for the various theory courses at Undergraduate programs for End Semester Examination of ODD Term 2019-20 was constituted.</b></p>
22.11	<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 2019-20.</p> <p>(Comment: Question papers of all the courses of PG programs are set and evaluated by the course instructor from ODD Term 2019-20. The grades of the students will also be decided by the Course Instructors.)</p> <p><b>The panel of paper setters, Moderators and Valuers for the various theory courses at Postgraduate programs for End Semester Examination of ODD Term 2019-20 was constituted.</b></p>

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 End Semester Examination ODD Term 2019-20. <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 2019-20 was constituted.</b>
22.13	Preparation of Electronic question Bank for VII and VIII Semester UG courses. To review solutions to all questions of Electronic Question Bank for all courses of V semester. <b>Preparation of Electronic question Bank for VII and VIII Semester UG courses is in Progress</b>
22.14	To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses. <b>No Change</b>
22.15	To discuss the feedback received from students/ teachers/employers/alumni/parents regarding teaching learning process in order to review and design the syllabus  <b>To review and design the syllabus based on the feedback received:</b> <b>CT 2315: PE-I: Rough outline of the course Advanced Web Technologies</b> <b>CT2257: Database Management Systems</b> <b>CT 2323/2373: OE I / III: Digital Image Processing</b> <b>CT2321/2371: OE I / III: Introduction to DBMS</b> <b>CT2333/2383: OE II/IV: Internet Technology</b>
22.16	Any other matter with the permission of the Chair  <b>Professional Electives should be core electives not the technology specific.</b> <b>MOOC course based on the availability of Swayam Course List.</b> <b>Syllabus of advanced data structure, DBMS and Operating System should be properly aligned.</b> <b>Practical for all Open Elective Courses may be offered.</b> <b>Formal Thanks to Eternal Experts on The BoS,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. G.M. DHOPAVKAR**  
Chairman  
BoS in Computer Technology



**Dr. S.D. Kamble**  
Member Secretary  
BoS in Computer Technology

Date: 20<sup>th</sup> July 2019





## Department of Computer Technology

### Boards of Studies in Computer Technology Minutes of the Meeting No. 23

Date: 11<sup>th</sup> January 2020

Meeting no. 23<sup>rd</sup> of the Board of Studies in Computer Technology department was held on 11<sup>th</sup> Jan 2020 at 10 am. in the Department library of Computer Technology Department. The meeting was attended by the following members of BoS.

#### External Members

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

#### BoS Members

Sr. No.	Name of Member	Sr. No.	Name of Member
1.	Dr. Gauri Dhopavkar	2.	Dr. K. R. Singh
3.	Mr. A. R. Patil Bhagat	4.	Dr. S. D. Kamble
5.	Dr. S. J. Karale	6.	Dr. L. B. Damahe
7.	Dr. R. D. Wajgi	8.	Mr. N.U. Sambhe
9.	Mrs. N.M. Jichkar	10.	Ms. R. S. Khedgaonkar
11.	Mrs. S. Karale	12.	Mr. P.V. Barekar
13.	Mr. N.S. Mangrulkar	14.	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. Ajit Dharmik, Industry Expert
3.	Mr. T.R Ravi
4.	Mrs. G.A Chaudhary
5.	Mrs. S. R. Kapse
6.	Mrs. S. S. Thombre
7.	Mr. R. S. Bhanuse
8.	Mrs. D.B. Deshmukh
9.	Mr. A. S. Pande



## Department of Computer Technology

The following agenda points were deliberated in the meeting

23.01	Welcome of new members
23.02	Installation of member Secretary: Already Installed in Odd sem 2018-19 <b>CT department BoS:</b> Dr. Mrs. G. M. Dhopavkar – Chairman Dr. S. D. Kamble – Member Secretary Dr. L. B. Damahe – Member Dr. R. D. Wajgi – Member
23.03	To confirm the minutes of Meeting of BoS. <b>The minutes of the 22th Meeting of BoS in Computer Technology held on 20th July 2019 were placed on the table by Chairman Dr. Mrs. G. M. Dhopavkar and were confirmed unanimously.</b>
23.4	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 - Revised Scheme of Examination (known as Autonomous 2018) of the Undergraduate program is proposed. Professional Electives were rearranged, and old Professional Electives and Open Electives from Scheme of Examination 2014 are included in Scheme of Examination 2018. Following Courses were identified for the improvement in employability, skill development and Entrepreneurship: CT2256 Lab: Mathematical Foundations for Data Analysis CT2255 Mathematical Foundations for Data Analysis CT1357 PE1 : Computing with Python CT1358 PE1 :Lab: Computing with Python CT 1359 PE-I: Customer Relationship Management CT 1451 Artificial Intelligence
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. - Discussed and approved the syllabi of new PE-I CT 1359 Customer Relationship Management in VI semester 2014 scheme of Examination. - Suggested the minor change in syllabi of CT 1451 Artificial Intelligence in VII semester 2014 scheme of Examination. CSE3914 : PE II: Wireless Sensor Network CSE3916 : Data Mining CSE3917 : Distributed Systems Following Courses were identified for the improvement in employability, skill development and Entrepreneurship: CT2256 Lab: Mathematical Foundations for Data Analysis CT2255 Mathematical Foundations for Data Analysis CT1357 PE1 : Computing with Python CT1358 PE1 :Lab: Computing with Python CT 1359 PE-I: Customer Relationship Management CT 1451 Artificial Intelligence
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. Suggested "Artificial Intelligence: A Modern Approach" by Russell, Stuart J.; Norvig, Peter as a text book for course CT 1451 Artificial Intelligence





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## Department of Computer Technology

23.07	To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of Under-and Post Graduate programs. <b>List of experiments of UG Program is discussed with experts and approved.</b>
23.08	To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board. <b>Suggested to conduct two Mid Semester Examination (MSE) per semester. Suggested to modify End Semester Examination (ESE) question paper pattern/format.</b>
23.09	To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum. <b>Suggested to introduce a MOOC Course based on availability of Swayam 2020 course list.</b>
23.10	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 2019-20. <b>The panel of paper setters, Moderators and Valuers for the various theory courses at undergraduate programs for End Semester Examination of EVEN Term 2019-20 was constituted.</b>
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 2019-20. <b>The panel of paper setters, Moderators and Valuers for the various theory courses at postgraduate programs for End Semester Examination of EVEN Term 2019-20 was constituted.</b>
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 2019-20. <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 2019-20 was constituted.</b>
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) <b>Preparation of Electronic question Bank for VI Semester UG courses is in Progress. To review solutions to all questions of Electronic Question Bank for all courses of IV SEM (SoE 2018) is in Progress.</b>
23.14	To discuss the feedback received from students/ teachers/employers/alumni/parents regarding teaching learning process in order to review and design the syllabus <b>To review and design the syllabus based on the feedback received: PE-I CT 1359 Customer Relationship Management CT 1451 Artificial Intelligence</b>
23.15	Any other matter with the permission of the Chair <b>Identified Thrust areas of the Department is approved by experts. Discussed and finalized absorption scheme</b>

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



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## Department of Computer Technology

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

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

Date: 11<sup>th</sup> January 2020





Nagar Yuwak Shikshan Sanstha's

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## Department of Computer Technology

### Boards of Studies in Computer Technology Minutes of the Meeting No. 24

Date: 05<sup>th</sup> June 2020

Meeting no. 24<sup>th</sup> of the Board of Studies in Computer Technology department was held on 5<sup>th</sup> June 2020 at 10 am. 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
2	Mr. Vaibhav Deshpande	Alumni
3	Mr. Ajit Dharmik	Industry Expert

#### BoS Members

Sr. No.	Name of Member	Sr. No.	Name of Member
1.	Dr. Gauri Dhopavkar	2.	Dr. K. R. Singh
3.	T. R. Ravi	4.	Dr. S. D. Kamble
5.	Dr. L. B. Damahe	6.	Dr. R. D. Wajgi
7.	Mr. N.U. Sambhe	8.	Mrs. N.M. Jichkar
9.	Mr. P.V. Barekar	10.	R.S.Khedgoankar
11.	Mrs. S. R. Kapse	12.	Mrs. P. Deshkar
13.	Mrs. S. S. Thombre	14.	Mr. N.S. Mangrulkar
15.	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.	Dr. A. R. Patil Bhagat
3.	Dr. S. J. Karale
4.	Mrs. G.A Chaudhary
5.	Mr. R. S. Bhanuse

The following agenda points were deliberated in the meeting



## Department of Computer Technology

24.01	Welcome of All members
24.02	Installation of member Secretary: Already Installed in Odd sem 2018-19 <b>CT department BoS:</b> <b>Dr. Mrs. G. M. Dhopavkar – Chairman</b> <b>Dr. S. D. Kamble – Member Secretary</b> <b>Dr. L. B. Damahe – Member</b> <b>Dr. R. D. Wajgi – Member</b>
24.03	To confirm the 23 minutes of Meeting of BoS. <b>The minutes of the 23<sup>rd</sup> Meeting of BoS in Computer Technology held on 11 January 2020 were placed on the table by Chairman Dr. Mrs. G. M. Dhopavkar and were confirmed unanimously.</b>
24.04	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>Revised Scheme of Examination (known as Autonomous 2018) of the Undergraduate program is proposed with following changes:</b> <b>Introduce PE-II Introduction to Natural Language Processing in place of Parallel Programming in VI Semester and PE-V Parallel Programming in place of Natural Language Processing in VII Semester.</b> <b>Replacing Title of a Natural Language Processing course with <u>Introduction to Natural Language Processing</u>.</b> <b>CT 2339/2375 Introduction to Salesforce is added as Industry aligned Open Electives (In association with TCS, Nagpur) which is beneficial for the placement purposes.</b> <b>Following Courses were identified for the improvement in employability, skill development and Entrepreneurship:</b> <b>CT2315 PEI: Advanced Web Technologies</b> <b>CT2316 PEI: Lab: Advanced Web Technologies</b> <b>CT2313 PEI: Mobile Operating System</b> <b>CT2314 PEI: Lab: Mobile Operating System</b> <b>CT 2339/2375 Introduction to Salesforce</b> <b>CT2367 Introduction to Natural Language Processing.</b> <b>CT 2315: PE I: Advanced Web Technologies</b> <b>CT 2257: Database Management Systems</b>
24.05	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. <b>Discussed and approved the minor changes in undergraduate courses in Autonomous 2018 Scheme:</b> <b>CT 2257: Database Management Systems</b> <b>CT 2315: PE I: Advanced Web Technologies (Syllabus is provided to TCS experts for vetting. Based on recommendation, some topics would be added in the syllabus and will be submitted to BoS)</b> <b>CT 2204: Data Structure (3<sup>rd</sup> Semester, Autonomous scheme 2018-19) syllabus is mapped with 12 Week NPTEL Course: Problem Solving Through Programming In C, Prof. Anupam Basu Dept. of Computer Science and Engineering, IIT Kharagpur.</b> <b>CT 2301: Computer Networks (5<sup>th</sup> Semester, Autonomous scheme 2018-19) syllabus is mapped with 12 Week NPTEL Course: Computer Networks And Internet Protocol , Soumya K Ghosh, Computer Science and Engineering, IIT Kharagpur.</b> <b>CT1451: Artificial Intelligence syllabus (7<sup>th</sup> Semester, Autonomous Scheme 2014) is mapped with 12 Week NPTEL Course: Artificial Intelligence, Prof Anupam Basu and Prof. Sudeshna Sarkar, Computer Science and Engineering, IIT Kharagpur.</b> <b>CSE3918 : Optimizing Compilers</b> <b>CSE3920 : Software Architecture</b>





## Department of Computer Technology

	<b>CSE3923 : PE III: Computer Vision</b>  Following Courses were identified for the improvement in employability, skill development and Entrepreneurship: <b>CT2315 PEI: Advanced Web Technologies</b> <b>CT2316 PEI: Lab: Advanced Web Technologies</b> <b>CT2313 PEI: Mobile Operating System</b> <b>CT2314 PEI: Lab: Mobile Operating System</b> <b>CT 2339/2375 Introduction to Salesforce</b> <b>CT2367 Introduction to Natural Language Processing</b> <b>CT 2315: PE I: Advanced Web Technologies</b> <b>CT 2257: Database Management Systems</b>
24.06	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>It was suggested to procure all NPTEL videos of the mapped courses and make it available in Dept on server and in library</b>
24.07	To discuss and propose the list of experiments, wherever there is a change, in the laboratory courses of Under-and Post Graduate programs. <b>List of experiments of UG Program is discussed with experts and approved.</b>
24.08	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>
24.09	To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum. <b>Suggested to introduce a Randomized Algorithms as a MOOC Course</b>
24.10	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>
24.11	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. <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>
24.12	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>
24.13	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>NA</b>



Nagar Yuwak Shikshan Sanstha's

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## Department of Computer Technology

24.14	<p>To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses.</p> <p><b>Theory Examination:</b></p> <ol style="list-style-type: none"><li>1. MSE = 30 Marks</li><li>2. TA = Part 1: Teachers Assessment = 10 Marks and Part 2: Quizzes=20 Marks = Total= 30 Marks</li><li>3. ESE=40 Marks</li></ol> <p><b>Practical Examination:</b></p> <p>MSPA-1=15 Marks, MSPA-2=15 Marks, MSPA-3=15 Marks, MSPA-4=15 Marks and ESE=40 Marks</p>
24.15	<p>To discuss and propose scheme for Minor and Honor course and its syllabus.</p> <p><b>Propose scheme for Minor and Honor course was discussed and introduce Computer Vision course in Honor course. Introduce CT 2206 Lab: Python Programming and CT 2207 Lab: Web Technology in minor course.</b></p>
24.16	<p>To discuss the feedback received from students/ teachers/employers/alumni/parents regarding teaching learning process in order to review and design the syllabus</p> <p><b>To review and design the syllabus based on the feedback received:</b></p> <p>CT 2339/2375 Introduction to Salesforce CT 2315: PE I: Advanced Web Technologies CT 2257: Database Management Systems</p>
24.17	<p>Any other matter with the permission of the Chair <b>program specific outcome i.e. PSO 2 is modified due to change in the thrust area of the department and approved by experts.</b></p> <p><b>Formal Thanks to Eternal Experts on behalf of the BoS Chairman, BoS Members and member secretary.</b></p>

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

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

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

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





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

### Minutes of the Meeting No. 23

The 23<sup>rd</sup> meeting of the Board of Studies in **Information Technology** was held on **13/07/2019** (Saturday) at 10:00 am in the **Department of Information Technology, YCCE, Nagpur**.

The agenda for the meeting was as follows:

- 23.1 Welcome of new members
- 23.2 Installation of member Secretary
- 23.3 Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.
- 23.4 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
- 23.5 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.
- 23.6 (Consider the remarks given by the faculty in course completion reports of previous terms)
- 23.7 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.
- 23.8 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.)
- 23.9 To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board.
- 23.10 To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.
- 23.11 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 2019-20
- 23.12 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 2019-20
- 23.13 Preparation of Electronic question Bank for VII and VIII Sem UG courses
- 23.14 To review solutions to all questions of Electronic Question Banks for all courses of V SEM
- 23.15 To discuss and suggest the changes/additions/deletions/alterations in the existing Evaluation Process for theory and other courses.



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

- 23.16 To discuss the feedback received from students /teachers/ employers/alumni/parents regarding teaching learning process in order to review and design the syllabus.
- 23.17 Any other matter with the permission of the Chair.

### Following BoS Members were present:

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 Deptt. RCOEM Nagpur
5.	Mr. Abhishek Nachankar, Member PG Alumni
6.	Mr. S. W. Shende, Member Secretary
7.	Dr K. K. Bhojar
8.	Dr M. M. Raghuvanshi
9.	26.1 Dr U. H. Gawande
10.	Mrs. Swati G. Kale
11.	Ms. N. R. Wankhade
12.	Mr. A. D. Gaikwad
13.	Ms. P. J. Jaiswal
14.	Mr. S. S. Chavhan
15.	Mrs. S. Gugulothu

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

1	Mr. Parikshit Umare, Youbotics Nagpur
2	Mrs. R. A. Fadnavis
3	Mr. Manish Hadap
4	Mr. Sachin Jain
5	Mr. Bhushan Bawankar





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

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

1	Welcome of new Members.	NIL
2	Installation of member Secretary	NIL
3	Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.	<p>The minutes of the 22<sup>nd</sup> Meeting of BoS in Information Technology held on,12/01/2019 &amp; the minutes of CDW-7 were placed on the table and the following changes were confirmed unanimously:</p> <p>Swap DBMS(IV Sem.) course with OS(V Sem.) i.e. Shift DBMS to V Sem and OS to IV Sem.</p> <p>Remove PE-1 Computer Graphics ( V Sem)</p> <p>Remove PE3:Business Information Systems (VII Sem.)</p> <p>Shift Software Lab( Python Programming )from IV Sem to III Sem</p> <p>Remove Software Lab( Web Programming ) from III Sem.</p> <p>Exchange IOT (VII Sem.) with Network Programming(V Sem.)</p> <p>Add Lab Course for HCI, NNFL (VII Sem.)</p> <p>Shift ML to 6<sup>th</sup> Sem.</p>
4-a	To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2014 ) of the Undergraduate program conducted under the Board.	NIL
4-b	To discuss and suggest the changes in the <b>Scheme of Examination Autonomous 2018</b> of the Undergraduate program conducted under the Board.	<p>Following changes were suggested:</p> <p>Shift Course "Principles of Artificial Intelligence" from V Sem. To VII Sem.</p> <p>Shift Course "Software Engineering" from VI Sem. To V Sem.</p> <p>Add Lab for IOT(VII Sem.)</p>

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

5	Syllabus III SEM.	NIL
	Syllabus IV SEM.	<b>Discrete Mathematics and Probability Theory</b> : Add the topics based on Counting and pigeonhole Principles.
	V SEM.	Syllabus of following courses were approved: <ol style="list-style-type: none"> <li>1. Advanced Web Programming</li> <li>2. PE1:Network Programming</li> <li>3. OE-2: Information Security</li> <li>4. OE-2: Machine Learning</li> </ol>
	VI SEM.	Syllabus of following courses were approved: <ol style="list-style-type: none"> <li>1. Software Engineering</li> <li>2. PE-2: Machine Learning</li> <li>3. PE2- Ethical Hacking &amp; Cyber Forensic</li> </ol>
	VII SEM.	In view of employability, skill development and Entrepreneurship following modifications were suggested : <b>Minor Changes suggested for IoT : Add the topics related to data analysis</b>
	VIII SEM.	No change
6	Changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate and Postgraduate Programs.	<b>IV Sem.</b> Discrete Mathematics and Probability Theory: Add following Text books : <ol style="list-style-type: none"> <li>1. "Discrete Mathematics" by Rosen.</li> <li>2. "Foundation of Discrete Mathematics" by K. D. Joshi</li> <li>3. "Elements of Discrete Mathematics: A Computer Oriented Approach" By C. Liu</li> </ol>



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

7	To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of UG program.	No change
8	Changes in the Academic Regulations governing the UG & PG Programme	None
9	MOOCs	In view of employability, skill development and Entrepreneurship Following courses are identified for inclusion under MOOCs (SWAYAM) in the Odd Semester 2019-2020.

Sem	Course Name	Faculty Name	Duration	Course Teacher
V	Data Base Management System	Prof. Partha Pratim Das	8 Weeks (Starts: 29-07-2019) Exam Date: 29 Sept, 2019	PGJ
V	Software Engineering	Prof. Rajib Mall IITKGP	12 Weeks (Starts: 29-07-2019) Exam Date: 17 Nov, 2019	ADG

10-11	YA-11 & 12 (UG) – 2018-19	Discussed and approved.
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12	Preparation of Electronic question Bank for V and VI Sem UG courses. To review solutions to all questions of Electronic Question Banks for all courses of IV SE	<b>Status of E-Question Bank:</b>
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Question bank validated in 2018-19

Sr. No.	Course Name	Name of Course Teacher	Semester
1	Design & Analysis of Algorithms	Dr.M.M.Raghuwanshi	6
2	Digital Image Processing	Dr.K.K.Bhoyar	6
3	Artificial Intelligence	Dr. U. H. Gawande	6



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

### Question Bank Targeted in 2019-20

Sr. No	Course Code	Course Name	Name of Course Teacher
1	IT1403	Principle of Compiler Design	Mr. R. C. Dharmik
2	IT1417	Network Programming	Mr. M. K. Hadap
3	IT1427	Data Mining	Mrs. R. A. Fadanvis
4	IT1422	Network Security	Mr. Amol Gaikwad
5	IT1407	Real Time Systems	Mr. S. W. Shende
6	IT1432	Cloud Computing	Mr. R. C. Dharmik
7	IT1415	Neural Networks & Fuzzy Logic	Dr. U. H. Gawande
8	IT1421	Distributed Systems	Mr. S. W. Shende

### 13 E-Question Bank Solution

#### Solution sets Received in 2018-19(20% of each Unit)

Sr. No.	Course Name	Name of Course Teacher	Semester
1	Computer Architecture & organization	Mrs. S. G. Kale	4
2	Theory of Computing	Mr. B. U. Bawankar	4
3	Object Oriented Programming	Ms. N. R. Wankhade	4

#### Solution sets Targeted in 2019-20

Sr. no.	Subject	Name of Faculty
1	Operating System [IT1303]	Dr. K.K.Bhojar
2	Software Engineering [IT1305]	Mr. Amol Gaikwad
3	DBMS [IT1316]	Mrs. P. G. Jaiswal
4	Data Analysis and Statistics [IT1328]	Mrs. R. A. Fadanvis
5	Web Programming [IT1327]	Mrs. S. G. Kale
6	Object Oriented Programming [IT1325]	Ms. N. R. Wankhade

14 Discuss and Suggest the changes/additions/deletions/alterations in existing evaluation process for theory and other courses.

No change

15 Any Other Matter  
Semester long Internship Details





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

### Internship Report 2019-20

A Semester Long Internship program launched by the Information Technology department from session 2017-18. Following companies offered internship to 67 students.

1. TCS Nagpur
2. All India Reporter
3. Lemon Ideas
4. Sap Control System
5. Alacrity E-commerce Solutions
6. Arista Infotech
7. Bhushel Technologies
8. Electus technologies
9. 6Simplex Technologies
10. Ceinsys Tech Limited

As per the student's feedback of 2017-18 batch, the internship should be given only to the Software companies. So from the next academic session i.e. 2018-19 onwards, we have contacted to only software companies and the following software companies offered internships to our 75 students.

1. TCS, Mihan Nagpur
2. Bhushel Technology
3. Alacrity E-Commerce Solution Pvt. Ltd
4. Blue Planet Infosolutions Pvt.Ltd
5. Lemon Ideas
6. Ensivo Solution
7. ANV infotech
8. Persistent systems Pvt Ltd
9. Arista Infotech
10. CityBridge Software Pvt Ltd
11. Youbotics
12. Forensic Solution
13. Ceinsys Tech

As per the feedback given by the students of 2018-19 batch, few local software companies has not offered quality projects to the students. So, for the current batch i.e. 2019-20, we have approach to some of the MNC companies in the Nagpur. List of companies are as follows

Sr. No	Name of company	Date	Contact Person	Remarks
1	TCS Nagpur	10/01/2019	Mr. Arvind Kumar (Center Head, TCS Nagpur)	Allowed for internship
2	Infocepts Technology	10/01/2019	Mrs. Saima Siddiqui (HR Infocepts)	No Internship policy in company
3	Global Logic	10/01/2019	Arun Ojha (Assistant Manager-Talent Acquisition)	No Internship policy in company
4	HCL	10/01/2019	Sachin Patil (HR HCL)	Paid internship is allowed.
5	Persistent	16/01/2019	Mr. Samir Bendre (HR Head) Mrs. Kalpana kudlingar(HR) Mrs. Kamana Arora (HR)	Allowed for internship

Also, we have visited some MNC's who setup company in Nagpur few years back.

Sr. No	Name of company	Date	Contact Person	Remarks
1	Hexaware Technologies	26/06/2019	Tatyaso Waghmare (HR)	Only BPO work is in Nagpur so internship not possible.
2	Infosys	26/06/2019	Amit Singh (HR)	Only BPO work is in Nagpur so internship not possible.
3	Tech Mahindra	26/06/2019	Arpit Rahamatkar (HR)	No Internship policy in company
4	Kcloud Data	26/06/2019	Abhishek Hood (HR)	No Internship policy in company
5	MRR Soft	26/06/2019	Abhishek Hood (HR)	No Internship policy in company
6	Ebix Technologies	26/06/2019	Harsh Raj Jain (HR)	No Internship policy in company
7	Webgile Solutions	26/06/2019	Tejawini Wandhare (HR)	No Internship policy in company
8	Metta Soft	26/06/2019	Ruchika Vatsa (HR)	No Internship policy in company
9	SmartData	26/06/2019	Deepti Gaddamwar (HR)	No Internship policy in company
10	QualQuest IT Services	26/06/2019	Mahesh Patil (HR)	No Internship policy in company

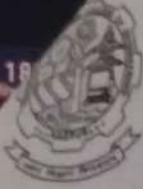
Also, we have visited various research labs with internship proposal

Sr. No	Name of Research Lab	Date of Visit	Contact Person	Remarks
1	ISRO Nagpur	21/06/2019 and 24/06/2019	Dr. Ashish Sharma and GM	Allowed for internship
2	NEERI	28/06/2019	Dr. Pradeep Salve	No internship for CS and IT

Few local software companies also visited to invite them for the internship drive

Sr. No	Name of company	Date	Contact Person	Remarks
1	Konverge AI	27/06/2019	Ketan Patilkar (CEO)	December Batch internship allowed
2	Zsoftware	28/06/2019	Akshay Zadgaonkar (CEO)	Allowed for internship
3	Techwalunt Technologies	29/06/2019	Akshay Kekare (CEO)	Allowed for internship
4	Crypto Forensic Technology	29/06/2019	Shrikant Ardhapurkar (Co-founder)	Allowed for internship
5	Neosynergy System Pvt Ltd	29/06/2019	Rahul Arya (Co-founder)	Allowed for internship

After lots of efforts, following companies offered internship to the students after due process of selection on the scheduled date.



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

Sr. No	Name of Company	Date	Selection	Joining Dates
1	Persistent	29/05/2019	12(Odd)+ 7(Even)=19	
2	Hitachi	31/05/2019	01	06 June 2019
2	ISRO Nagpur	27/06/2019	04	06 June 2019
4	Youbotics	28/06/2019	03	01 July 2019
5	Alacrity	01/07/2019	4 (Odd)+ 3(Even)=7	10 July 2019
6	ZSoftware	02/07/2019	2	03 July 2019
7	MW Lab	04/07/2019	Result Awaited	08 July 2019
8	Neosynergy System Pvt Ltd	05/07/2019	05	Result Awaited
9	Techwalunt Technologies	06/07/2019	02	08 July 2019
10	Crypto Foresnic Technology	06/07/2019	02	08 July 2019
11	Bushel Technologies	08/07/2019	Confirmation Awaited	10 July 2019
	TCS	20/07/2019		NA

Odd Sem. :39

Even Sem. :32 (12 selected)

16 Industry align Electives

### Industry Aligned Courses (Session 2019-20)

Semester	Course Code	Course Name	Industry Name
B.E. 6 Sem.	IT1336(OE)	Introduction to E-Commerce	Alacrity E-Commerce Solutions Pvt. Ltd., Nagpur
B.E. 6 Sem.	IT1330(PE)	Business Intelligence	Infocepts Technologies, Nagpur

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

Hands on Programming practice needs to be very high as the industry is skills based. This requires students to have tens of thousands line of code writing.





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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 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 Deptt. RCOEM, Nagpur	
4	Mr Abhishek Nachankar	Asst. Prof. CT Deptt., KDK, Nagpur (Alumni Member)	

  
**Mr. R. C. Dharmik**

Chairman

BoS in Information Technology



Nagar Yuwak Shikshan Sanstha's

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## Department of Information Technology

### Board of Studies in Information Technology

#### BOS Meeting-23

Date: 13<sup>th</sup> July 2019

The following Members have attended the 23<sup>rd</sup> meeting of Board of Studies in Information Technology on 13<sup>th</sup> July 2019 at 10:00 am in the department of Information Technology.

Sr. No.	Name	Signature
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 ,Head IT Dept. RCOEM, Nagpur	
5.	Mr Parikshit Umare, CEO YouBotics, Nagpur	
6.	Mr Abhishek Nachankar, KDK COE, Nagpur	
7.	Mr S. W. Shende, Member Secretary	
8.	Dr K. K. Bhoyar	
9.	Dr M. M. Raghuwanshi	
10.	Dr U. H. Gawande	
11.	Mrs Rupa A. Fadanvis	
12.	Ms Nisha R. Wankhade	
13.	Mrs Swati G. Kale	
14.	Mr Manish Hadap	





Nagar Yuwak Shikshan Sanstha's

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## Department of Information Technology

### Board of Studies in Information Technology

15.	Mr Sachin Jain	
16.	Mr Bhushan Bawankar	
17.	Mr A. D. Gaikwad	
18.	Ms Priyanka Jaiswal	<i>Priyanka Jaiswal</i>
19.	Mr S. S. Chavhan	
20.	Mrs S. Gugulothu	<i>S. Gugulothu</i>



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

### Minutes of the Meeting No. 24

The 24<sup>th</sup> meeting of the Board of Studies in **Information Technology** was held on 11/01/2020 (Saturday) at 11:00 am in the **Department of Information Technology, YCCE, Nagpur.**

The agenda for the meeting was as follows:

- 24.1 Welcome of new members
- 24.2 Installation of member Secretary
- 24.3 Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.
- 24.4 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.
- 24.5 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.
- 24.6 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.
- 24.7 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.)
- 24.8 To discuss and suggest the changes in the Academic Regulations governing the Undergraduate and Post graduate programs conducted under the Board.
- 24.9 To discuss and propose the new courses/MOOCs received from the faculty for inclusion in the curriculum.
- 24.10 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 2019-20
- 24.11 To prepare and propose the panel of internal and external examiners for the various laboratory and other non-theory courses at UG levels that will be examined in End Semester Examination Even Term 2019-20
- 24.12 Updation/Preparation of Electronic question Bank up to VI Sem UG courses. To review solutions to all questions of Electronic Question Banks for all courses up to IV SEM (SoE 2018)
- 24.13 To discuss the feedback received from students /teachers/ employers/alumni/parents regarding teaching learning process in order to review and design the syllabus.
- 24.14 Any other matter with the permission of the Chair.



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

### Following BoS Members were present:

Sr. No.	Name
1.	Dr U. H. Gawande, Chairperson
2.	Dr S. R. Sathe , Prof. CSE VNIT Nagpur
3.	Dr U. A. Deshpande Prof. & Head CSE VNIT Nagpur
4.	Mr. Abhishek Nachankar, Member PG Alumni
5.	Mr. S. W. Shende, Member Secretary
6.	Dr K. K. Bhoyar
7.	Dr M. M. Raghuvanshi
8.	Mr. R. C. Dharmik
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. J. Jaiswal
16.	Mr. S. S. Chavhan
17.	Mrs. S. Gugulothu
18.	Mrs. C. S. Suratkar

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

1	Mr. Parikshit Umare, YouBotics Pvt. Ltd. Nagpur
2	Dr. D. S. Adane , Prof. RCOEM Nagpur



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

Following decisions/suggestions are approved in the BoS Meeting:

1	Welcome of new Members.	NIL
2	Installation of member Secretary	NIL
3	Confirmation of minutes of previous Meeting and action taken report on decisions/suggestions of the previous meeting.	<p>The minutes of the 23<sup>rd</sup> Meeting of BoS in Information Technology held on,13/07/2019 were placed on the table and the following changes were confirmed unanimously:</p> <p><b>SoE-2018:</b></p> <ul style="list-style-type: none"> <li>• Shift the course "Principles of Artificial Intelligence" from V Sem. to VII Sem.</li> <li>• Shift the course "Software Engineering" from VI Sem. to V Sem.</li> <li>• Add Lab for IOT in VII Sem.</li> </ul>
4-a	To discuss and suggest the changes in the Scheme of Examination (known as Autonomous 2014 ) of the Undergraduate program conducted under the Board.	NIL
4-b	To discuss and suggest the changes in the <b>Scheme of Examination Autonomous 2018</b> of the Undergraduate program conducted under the Board.	<p>In view of employability, skill development and Entrepreneurship following modifications were suggested</p> <p><b>V Semester:</b></p> <ul style="list-style-type: none"> <li>• Replace the course "IT2315 Network Programming (PE-I)" by "Customer Relationship Management (PE I:)"</li> <li>• Replace the course "IT2316 Network Programming Lab" by "Customer Relationship Management-Lab"</li> <li>• Change the title of course "IT2311 Advanced Web Programming" as "Web Programming".</li> <li>• Change the title of course "IT2312 Advanced Web Programming- Lab" as "Web Programming-Lab".</li> </ul> <p><b>VII &amp; VIII Sem (Group A&amp;B)</b></p> <ul style="list-style-type: none"> <li>• Add the following professional electives</li> </ul>





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

		PE-3	IT2414	PE III: Information Retrieval																				
		PE-4	IT2427	PE IV: Topics in Parallel Computing																				
		PE-4	IT2428	PE IV: Lab: Topics in Parallel Computing																				
		PE-6	IT2444	PE VI: Natural Language Processing																				
5	Syllabus III SEM. (SoE-2018)	Minor Changes : Reviewed and approved for following courses: <ol style="list-style-type: none"> <li>Digital Circuits and Microprocessors</li> <li>Computer Architecture and Microprocessors</li> </ol>																						
	Syllabus IV SEM.(SoE-2018)	Nil																						
	Syllabus V SEM.(SoE-2018)	(SOE-2018) Syllabus of following courses were reviewed: <table border="1" data-bbox="686 1032 1351 1400"> <tbody> <tr> <td>IT2301</td> <td>Data Base Management Systems</td> </tr> <tr> <td>IT2302</td> <td>Data Base Management Systems Lab</td> </tr> <tr> <td>IT2303</td> <td>Software Engineering</td> </tr> <tr> <td>IT2313</td> <td>PE I: Data Analysis and Statistics</td> </tr> <tr> <td>IT2314</td> <td>PE I: Lab.: Data Analysis and Statistics</td> </tr> <tr> <td>IT2311</td> <td>PE I: Web Programming</td> </tr> <tr> <td>IT2312</td> <td>PE I: Lab.: Web Programming</td> </tr> </tbody> </table> (SOE-2018) Syllabus to be Prepared: <table border="1" data-bbox="680 1487 1427 1603"> <tbody> <tr> <td>IT2315</td> <td>PE I: Customer Relationship Management</td> <td>ADG</td> </tr> <tr> <td>IT2316</td> <td>PE I: Lab. Customer Relationship Management</td> <td>ADG</td> </tr> </tbody> </table>			IT2301	Data Base Management Systems	IT2302	Data Base Management Systems Lab	IT2303	Software Engineering	IT2313	PE I: Data Analysis and Statistics	IT2314	PE I: Lab.: Data Analysis and Statistics	IT2311	PE I: Web Programming	IT2312	PE I: Lab.: Web Programming	IT2315	PE I: Customer Relationship Management	ADG	IT2316	PE I: Lab. Customer Relationship Management	ADG
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## Department of Information Technology Board of Studies in Information Technology

VI SEM.(SoE-2018)

Syllabus of following courses were reviewed:

IT2351	Design & Analysis of Algorithms
IT2352	Design & Analysis of Algorithms Lab
IT2353	Principles of Compiler Design
IT2354	Principles of Compiler Design Lab
IT2361	PE II::Machine Learning
IT2362	PE II:Machine Learning Lab
IT2363	PE II: Business Intelligence
IT2364	PE II: Lab.: Business Intelligence
IT2365	PE II: Ethical Hacking and Cyber Forensics
IT2366	PE II: Lab.: Ethical Hacking and Cyber Forensics

(SOE-2014)

Minor Changes:Reviewed and approved for following courses:

OE (2)	IT1337	Information Security
--------	--------	----------------------

VII & VIII Sem (Group A&B) (SoE-2018)

Syllabus to be prepared for :

IT2414	PE III: Information Retrieval	KKB
IT2427	PE IV: Topics in Parallel Computing	SWS
IT2428	PE IV: Lab: Topics in Parallel Computing	SWS
IT2444	PE VI:Natural Language Processing	SGK

6 Changes in the books/ Reference Books/ Literature Sources published in the syllabi of courses in various Schemes of Undergraduate and Postgraduate Programs.

VI Sem.

IT1318	Design & Analysis of Algorithms
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Add the following text book:

Algorithm Design by Jon Kleinberg & Eva Tardos (Pearson)

7 To discuss and approve the list of experiments, wherever there is a change, in the laboratory courses of UG program.

No change



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

8	Changes in the Academic Regulations governing the UG & PG Programme	None																																				
9	MOOCs	Notice regarding the list of MOOC courses is displayed and informed to the students of VI Semester. Choice is left to the student to either opt for Open Electives or MOOC courses.																																				
10 & 11	YA-11 & 12 (UG) – 2018-19	Discussed and approved.																																				
12	Updation/Preparation of Electronic question Bank up to VI Sem UG courses. To review solutions to all questions of Electronic Question Banks for all courses up to IV SEM (SoE 2018)																																					
13	Question Bank Targeted in 2019-20																																					
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## Department of Information Technology Board of Studies in Information Technology

Solution sets Targeted in 2019-20

Sr. No.	Course Name
1	IT 1328 Computer Networks
2	IT1330 Business Intelligence
3	IT1318 Design & Analysis of Algorithms
4	IT1320 Digital Image Processing
5	IT1334 Internet of Things
6	IT 1336 Introduction to E-Commerce
7	IT1337 Information Security
8	IT1311 Artificial Intelligence

Solutions of Electronic Question Banks (ESE) for all the following courses of Fifth Semester BE of Undergraduate Programs are prepared by the respective course Teachers in odd semester 2019-20

Sr.no	Course code	Course name
1	IT1303	Operating Systems
2	IT1305	Software Engineering
3	IT1316	Data Base Management systems
4	IT1328	PE I : Data Analysis & Statistics

- 15 To discuss the feedback received from students /teachers/ employers/alumni/parents regarding teaching learning process in order to review and design the syllabus.:
- Add following courses : E-Commerce, Digital Marketing, Graphics Designing , Data Analytics
- Keep focus on Latest technologies and trends.





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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. U. A. Deshpande	Professor & Head CSE , VNIT Nagpur	
2	Dr. S. R. Sathe	Professor, CSE, VNIT Nagpur.	
3	Mr Abhishek Nachankar	Asst. Prof. CT Deptt., KDK, Nagpur (Alumni Member)	

Mr. R. C. Dharmik

Chairman

BoS in Information Technology



Nagar Yuwak Shikshan Sanstha's  
**Yeshwantrao Chavan College of Engineering**  
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**Department of Information Technology**  
**Board of Studies in Information Technology**

**BOS Meeting-24**

Date: 11<sup>th</sup> January 2020

The following Members have attended the 24<sup>th</sup> meeting of Board of Studies in Information Technology on 11<sup>th</sup> January 2020 at 11:00 am in the department of Information Technology.

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





Nagar Yuwak Shikshan Sanstha's


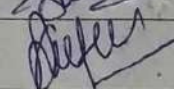
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## Department of Information Technology Board of Studies in Information Technology

17.	Mrs S. S. Gugulothu	
18.	Mrs. C. S. Suratkar	



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**University)**

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**Hingna Road, Wanadongri, Nagpur-441110**

**Board of General engineering**

**Agenda: 19<sup>th</sup> Board of Studies Meeting**

**Saturday, July 27<sup>th</sup>, 2019, Time : 11.00 a.m.**

**Item No. 19.01**

Welcome of new members

**Item No.19.02**

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

**Item No. 19.03**

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

**Item No.19.04**

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.

**Item No.19.05**

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

**Item No. 19.06**

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

**Item No. 19.07**

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

**Item No.19.08**

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

**Item No.19.09**

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 2019-20.

**Item No.19.10**

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 2019-20.

**Item No. 19.11**

Modification of Electronic question Bank for UG courses

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

**Item No.19.12**

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

**Item No.19.13**

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. 19.14:**

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

**Item No.19.15**

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 19<sup>th</sup> BoS Meeting in General Engineering**


The 19<sup>th</sup> BOS meeting of General Engineering board was held on Saturday, 27<sup>th</sup> July 2019 in Science building, room number SC- 203 at 11 a.m. The meeting was carried out in the absence of Dr. L.J.Paliwal, Dr.(Mrs.) Abha Sargaokar, Dr.J.V.Miskin, Mrs. M.B.Mahalle, Dr.A.B.Bhake, Dr.P.U.Waghe and Ms. Meenal Kale. The minutes of meeting are as follows:


<b>Item No</b>	<b>Detail</b>
19.01	The meeting begins with welcome of the two new members Dr. R. G. Sutose and Mr. Shrikant Ashtankar
19.02	Minutes of previous meeting were confirmed.
19.03	The comments from members are not received on scheme 2018-19
19.04	Syllabi content for various subjects are kept as it is by the members of BOS
19.05	The list of books / Reference Books/ Literature Sources specified in the syllabi of all courses is carried forward.
19.06	The sincere thought was given by the members on list of experiments for UG courses in Physics and Chemistry and finally it continued with the previous one.
19.07	The comments from members are not received on changes in academic regulations.
19.08	Some MOOC courses of Swayam are to be sorted and advised students to do those courses. Industrial Mathematics course to be float as Open elective for V semester.
19.09	HoDs have proposed the list of question paper setters, moderators and evaluators, under the Board that will be for UG courses for Odd Semester Examination 2019-20.
19.10	HoDs have proposed the panel of internal and external examiners for the various laboratory courses at UG levels for Even Semester Examination 2018-19.
19.11	Modification in E- Question Bank is suggested by the members.



- 19.12 The BOS members have suggested continuing with the existing evaluation process of theory and other courses.
- 19.13 The compulsory questions should be removed from MSE examination papers.
- 19.14 Course Completion feedback from faculties are submitted to head-departments of Applied Physics, Applied Chemistry and Applied Mathematics and Humanities.
- 19.15 Communication Skill development activities should be conducted

Meeting ends with vote of thanks.

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

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



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Board of General engineering

19<sup>th</sup> Board of Studies Meeting

Saturday 27<sup>th</sup> July 2019 , Time : 11.00 a.m.




The following members are present in 19<sup>th</sup> Board of Studies Meeting in General engineering board.

Sr. No	Name	Mobile No	E-mail	Signature
1	Dr.(Mrs.)M.P.Gandhi Chairman	9421780188	manjusha_g2@rediffmail.com	
2	Dr. Malabika Adak, Member Secretary	8793435532	malabikaadak@yahoo.co.in	
3	Prof. L. J. Paliwal (VC nominee)	9822564859	ljpaliwal@yahoo.co.uk	Absent
4	Dr. Vivek Nanoti , Principal, PIET, Nagpur Expert Academician	9822233286	viveknanoti@gmail.com	
5	Dr. (Mrs.)A.P. Sargaonkar, Principal Scientist, NEERI, Nagpur Expert Academician	9326733667	ap_sargaonkar@neeri.res.in	 27.7.19
6	Dr. S.S. Bagchi Dy. General Manager Reliance Power, Butibori, Nagpur Expert from Industry	9423416889 / 9372933666	surjvotibagchi@relianceada.com ssbagchi@rediffmail.com	 27/7/19



# Mathematics

	Prof.(Mrs.)M.S.Dani	9373914656	danimamta@gmail.com
	Dr. P.B.Bahatkar	9764996482	pbahatkar@yahoo.com
9	Dr. Arti Ghogre	9730251942	<u>arti_ghogre@rediffmail.com</u>
10	Prof. Asfar Siddiqui	9372256901	asfar1811@gmail.com
11	Prof. D.P.Bawane	9423673952	dnyanesh02@gmail.com
12	Prof. M.N.Dandale	9665167228	milinddandale@gmail.com
13	Dr. A.J.Meshram	9766462758	akj.meshram@gmail.com
14	Prof. N.A.Bhosale	9545865251	nabhosale16@gmail.com
<b>Mathematics</b>			
15	Prof. M.R.Kale	7875368199	m_mini83@yahoo.co.in
16	Dr. Arvinder Kour Mehta	9158886500	arvinderkour@yahoo.com
17	Prof . Vishakha Bhandarkar	9765620401	vishakhabhandarkar@gmail.com
18	Dr. .A.D.Gedam	9960960273	akash_dgedam@rediffmail.com
19	Prof. Shrikant Ashtankar	9970070278	<u>Shrikantashtankar27@gmail.com</u>
20	Prof. Nanada Thakre	9890508884	nandathakre@gmail.com
<b>Physics</b>			
21	Dr.J.R.Ghulghule	9850379975	jayant.ghulghule@rediffmail.com
22	Dr.S.A.Band	8275397068	band_sa@yahoo.com
23	Dr.Mrs.S.A.Fadanvis	9890181989	safadnavis@gmail.com
24	Prof. S.S. Kolte	9423632985	Sulbhask60@gmail.com

25	Dr. Mrs. H. V. Ganvir	9011099089	hrwasnik@gmail.com	
26	Prof. M. B. Mahalle	9604589538	mb.mahalley@yahoo.com	Absent
Chemistry				
27	Dr. Mrs. J. V. Miskin	9595896431	jvmiskin@rediffmail.com	Absent
28	Dr. A. B. Bhake	9423054092	avinash_bhake@yahoo.com	Absent
29	Dr. P. T. Kosankar	9970934326	tukasut@rediffmail.com	
30	Prof. Shruti Gomkale	9890179521	shruti.gomkale@gmail.com	Absent
31	Dr. P. U. Waghe			
32	Dr. Ramesh G. Sutose (Sutose)	9970040247	romeshsutose@gmail.com	





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**Board of General engineering**

**Agenda: 20<sup>th</sup> Board of Studies Meeting**

**Friday, January 24<sup>th</sup>, 2020, Time : 02.00 p.m.**

**Item No. 20.01**

Welcome of new members

**Item No.20.02**

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

**Item No. 20.03**

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

**Item No20.04**

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.

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**Item No. 20.06**

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

**Item No. 20.07**

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

**Item No.20.08**

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

**Item No.20.09**

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 Even Term 2019-20.

**Item No.20.10**

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 2019-20.

**Item No. 20.11**

Updation/Preparation of Electronic question Bank up to VI Semester UG courses  
To review solutions to all questions of Electronic Question Banks for all courses up to IV Semester (SoE 2018)

**Item No.20.12**


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


**Item No. 20.13:**

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

**Item No.20.14**

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





**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 Studies (General Engineering)**  
**Minutes of 20<sup>th</sup> BoS Meeting in General Engineering**

The 20<sup>th</sup> BOS meeting of General Engineering board was held on Friday, 24<sup>th</sup> January 2020 in Science building, room number SC- 203 at 2.00 p.m. The meeting was carried out in the absence of Dr. L.J.Paliwal, Dr.S.S.Bagechi, Dr. Arvinderkour, Mrs. M.B.Mahalle, Dr.A.B.Bhake, Prof.S.S.Kolte, Prof. Shruti Gomkale, Dr. Arsala Khan and Prof. Megha Khurma. The minutes of meeting are as follows:

<b>Item No</b>	<b>Detail</b>
20.01	The meeting begins with welcome of the new member Dr. Vikrant Ganvir of Department of Physics
20.02	Minutes of previous meeting were confirmed.
20.03	The comments from members are not received on scheme 2018-19
<b>20.04</b>	<b>Changes in Syllabi of courses Fundamentals of Management, Fundamentals of Economics, Numerical Solution of Partial Differential Equations(OE), Probability theory and Statistical Inference(OE), Combinatorics (OE) of V and VI semesters were discussed and approved by board.</b>
20.05	The list of books / Reference Books/ Literature Sources specified in the syllabi of all courses is carried forward.
20.06	The sincere thought was given by the members on list of experiments for UG courses in Physics and Chemistry and finally it continued with the previous one.
20.07	The comments from members are not received on changes in academic regulations.
20.08	New courses are not proposed to add in curriculum.
20.09	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.
20.10	HoDs have proposed the panel of internal and external examiners for the various laboratory courses at UG levels for Even Semester Examination 2019-20.
20.11	E- Question Banks are already up-dated.
20.12	Any other Point: Following suggestions are given by members <ul style="list-style-type: none"><li>• Examination Span to be minimized so students will get preparation time before ESE.</li><li>• Hard Copy of Academic Regulations should be available in the Department</li></ul>

- Question paper pattern of ESE is to be modified. The following pattern is suggested by members

Q.1.Solve any two of the following (Each 5 Marks)


- (a)
- (b)
- (c)


All 6 questions should be in the same format

**20.13** Course Completion feedback from faculties are submitted to head-departments of Applied Physics, Applied Chemistry and Applied Mathematics and Humanities.

**20.14** Communication Skill development should be continued.

Meeting ends with vote of thanks.

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

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



# List of BOS Members in General Engineering 2019-20

## Attendance Sheet

Board of General engineering

20<sup>th</sup> Board of Studies Meeting

Friday, 24<sup>th</sup> January, 2020, Time : 02.00 p.m.

Members Board of Studies Science

Sr. No	Name	Mobile No	E-mail	Signature
1	Dr.(Mrs.)M.P.Gandhi Charman	9421780188	manjusha_g2@rediffmail.com	
2	Dr. Malabika Adak, Member Secretary	8793435532	malabikaadak@yahoo.co.in	
3	VC nominee(Prof. L.J.Paliwal	9822564859	ljpaliwal@yahoo.co.uk	
4	Dr. Vivek Nanoti , Principal, PIET, Nagpur <b>Expert Academician</b>	9822233286	viveknanoti@gmail.com	
5	Dr. (Mrs.)A.P. Sargaonkar, Principal Scientist, NEERI, Nagpur <b>Expert Academician</b>	9326733667	ap_sargaonkar@neeri.res.in	 24.1.2020
6	Dr. S.S. Bagchi Dy. General Manager Reliance Power, Butibori, Nagpur <b>Expert from Industry</b>	9423416889 / 9372933666	surjyotibagchi@relianceada.com m ssbagchi@rediffmail.com	 S. S. Bagchi 24.1.2020




## Mathematics

7	Dr. V.G.Miskin	9730776565	vgmiskin@rediffmail.com	
8	Prof.(Mrs.)M.S.Dani	9373914656	danimamta@gmail.com	
9	Dr. P.B.Bahatkar	9764996482	pbahatkar@yahoo.com	



10	Dr. Arti Ghogre	9730251942	<a href="mailto:arti_ghogre@rediffmail.com">arti_ghogre@rediffmail.com</a>	
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12	Prof.Asfar Siddiqui	9372256901	<a href="mailto:asfar1811@gmail.com">asfar1811@gmail.com</a>	
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14	Prof.M.N.Dandale	<del>9665167228</del> 7057163662	<a href="mailto:milinddandale@gmail.com">milinddandale@gmail.com</a>	
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<b>Physics</b>				
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24	Prof. M.B.Mahalle	9604589538	<a href="mailto:mb.mahalley@yahoo.com">mb.mahalley@yahoo.com</a>	Absent
25	Prof. S.S. Kolte	9423632985	<a href="mailto:Sulbhask60@gmail.com">Sulbhask60@gmail.com</a>	Absent
26	Dr.Mrs.H.V. Ganvir	9011099089	<a href="mailto:hrwasnik@gmail.com">hrwasnik@gmail.com</a>	
27	Dr. Vikrant Ganvir	9881367366	<a href="mailto:vyganvir@gmail.com">vyganvir@gmail.com</a>	
28	Dr.Arsala Khan	9405144274	<a href="mailto:arsalazamirkhan@gmail.com">arsalazamirkhan@gmail.com</a>	Absent
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