



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.yccc.edu E-mail : principal@yccc.edu

Summary

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

Year	2020-21
Number of Programmes UG	08
Number of Programmes PG	06
Number of Programmes (UG+PG)	14
Percentage of Programmes	100%

- Minutes of relevant Academic Council/BOS meetings
- Highlighted SoE of Choice Based Credit System (CBCS)/elective course



(Dr. U.P. Waghe)

Principal, Y.C.C.E.
Principal

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

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Minutes of Academic Council



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E-mail : principal@yccee.edu, info@yccee.edu

Minutes of 23rd Emergent meeting of Academic Council held on 03rd June 2020

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

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



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Item 23.01: Welcome of New members

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

Item 23.02 To confirm the Minutes of 22nd Meeting of the Academic Council

The Academic Council unanimously approved the minutes of 22nd meeting of Academic Council held on 14th March 2020.

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

The minutes of the 10th Examination committee was presented before Academic council

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

The academic council accepted the minutes of Examination committee

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

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

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

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

The new weightage will be

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

Item 23.05 Discuss and approve revision in Titles of Honors and Minor courses

The Academic Council approved the revision of titles of Honors and Minor courses. Academic council directed to ratify the same from respective BoS.



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Item 23.06 Discuss and approve use of minimum 20% NPTEL courses having good mapping with existing courses, as per directives from AICTE/Govt of Maharashtra

The Academic Council discussed the issue, It has approved to implement the directives issued by AICTE/Govt. of Maharashtra. It has directed to ensure that the Video lectures of the NPTEL courses that are offered are available.

Item 23.07 Any other matter with the permission of the Chair

Dr. Rajesh Pande suggested that in case online examination is to be conducted then it should be AI proctored examination.

Mr. Sameer Bendre suggested that conducting online examination should be last priority as conducting ESE using pen and paper method is better way.

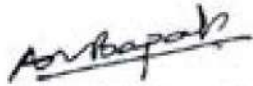
Dr. N. G. Bawane suggested that the college should inform to RTM NU regarding actual conduct of examination from time to time.

Dr. N C Shivaprakash, who actively participates in the meeting, suggested to check guidelines of BATU. It was suggested that college should be prepared for conduct of both types of examination online and pen and paper method using all norms required for COVID19 including social distancing.

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

The meeting concluded with thanks to the Chair.

Date: 04th June 2020


(Dr. A.V. Bapat)
Member Secretary



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Minutes of 24th meeting of Academic Council held on 7th November, 2020

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

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

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

Item 24.02 To confirm the Minutes of 23rd Emerging Meeting of the Academic Council

The Academic Council unanimously approved the minutes of 23rd emergent meeting of Academic Council held on 3rd June,2020.

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

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

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

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

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

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

Branch	SoE	Sem	Course Code & Name



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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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



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



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

The issue was discussed.

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

Item 24.13 To discuss and approve – Closure of PG Programme

The issue was discussed.

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

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

The issue was discussed.

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

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

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

The meeting concluded with thanks to the Chair.

Date: 9th November, 2020

(Dr. A.V. Bapat)
Member Secretary



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Minutes of 25th meeting of Academic Council held on 13th March, 2021

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

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

Leave of Absence granted to

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

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

Item 25.02 To confirm the Minutes of 24th Meeting of the Academic Council

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

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

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

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

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

Branch	SoE	Sem	Course Code & Name
Mechanical Engg.	2018	4	ME2252 Engineering Thermodynamics
	2014	8	New PEIV-Earth Moving Equipment
Computer Tech.	2018	3	CT 2202 Object Oriented programming
	2018	5	CT 2301 Computer Networks
Information Tech.	2018	5	IT-2331: OE- II: Machine Learning
	2018	6	IT2361: PE-II Machine Learning
	2018	7	IT2412 :PE-III – Real Time Systems
	2018	7	IT2413: PE-III– Network Security
	2018	7	IT2414 – Information Retrieval
	2018	7	IT2421 – (PEIV) Neural Network and Fuzzy Logic
	2018	7	IT2422 – (PEIV) LAB: Neural Network and Fuzzy
	2018	7	IT2432 – Distributed Systems
	2018	7	PE-VI-IT2444 – Natural Language Processing
Electronic & Telecomm. Engg.	2018	5	ET 2323/ET 2393–OE II/ OE IV: Medical Electronics
Electrical Engg.	2018	8	EL1436: PE IV : Fundamentals of Smart Grid
Electronics Engg.	2018	5	EE 2311- PE I: Computer Communication Network
	2018	1 st	EE2101 Basic Electronics.

Honor courses

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



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

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

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

Branch	SoE	Sem	Course Code & Name

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

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

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

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

No changes in Academic Regulations

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

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



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



Nagar Yuwak Shikshan Sanstha's

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The Academic Council approved Starting of following new Certificate courses

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

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

HONOR COURSES PROPOSED FOR 2021-22

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



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

MINOR COURSES PROPOSED FOR 2021-22

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

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

The issue was discussed.

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

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



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

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

The meeting concluded with thanks to the Chair.

Date: 18th March, 2021

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



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Minutes of 21st meeting of Academic Council held on 24th August 2019

The 21st meeting of Academic Council was held on 24th 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 20th 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.



❖ **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 Pollutuion 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.



Nagar Yuwak Shikshan Sanstha's

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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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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.

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.



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≠ **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



Nagar Yuwak Shikshan Sanstha's
YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING

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Academic Council 2018-21

21st Meeting 24th 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 Abs.
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	
	Mr. Milind Kank	Managing Director, Yeshshree Industries Ltd., Aurangabad	Leave of Abs.
8	Mr. Priyadarshan Kshirsagar	Head Business (IT), Tata Motors Ltd., Pune	Leave of Abs.
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 Abs.
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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Minutes of 22nd meeting of Academic Council held on 14th March 2020

The 22nd meeting of Academic Council was held on 14th 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 21st 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.

- 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 7th and 8th Sem to group A & B

The issue was discussed.

The Academic Council approved modification in SoE 2018 of 7th and 8th 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.



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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.

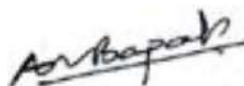
≠ Mr. Milind Kank, Member of Academic Council replacement.

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



Nagar Yuwak Shikshan Sanstha's
YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING

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Hingna Road, Wanadongri, Nagpur-411 110.

Academic Council 2018-21

22nd Meeting 14th 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 19th meeting of Academic Council held on 25th August 2018

The **Nineteenth meeting** of Academic Council was held on **25th August 2018** 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	Prof. R.C. Dharmik, HoD, Information Technology
2	Dr. Hemant Hajare, ITM College of Engineering, Nagpur	13	Dr. Mrs. Manjusha P. Gandhi, HoD Mathematics and Humanities
3	Dr. N.G. Bawane, Principal, Jhulelal Institute of Technology, Nagpur	14	Dr. J.R. Ghulghule, HoD Physics
4	Dr. N.C. Shivprakash, I.I.Sc., Bangalore	15	Dr. P.K. Dakhole, Registrar, YCCE
5	Mr. Priyadarshan Kshirsagar, Head Business (IT), Tata Motors Ltd., Pune	16	Prof. Arvind Bhagatpatil, Dean (P & D)
6	Dr. Shantanu R. Khandeshwar, HoD, Civil Engineering	17	Prof. D.R. Raut, COE
7	Dr. Sharad S. Chaudhary, HoD, Mechanical Engineering	18	Dr. M.M. Raghuvanshi, Professor in Information Technology, YCCE
8	Dr. B.Y. Bagde, HoD, Electrical Engineering	19	Dr. A.M. Pande, Professor in Civil Engg, YCCE and Director (R&D)
9	Dr. P.T. Karule, HoD Electronics Engineering	20	Dr. A.V. Patil, Professor, Civil Engineering, YCCE
10	Dr. M.S. Narlawar, HoD, Electronics & Telecommunication Engineering	21	Prof. Aniket P. Munshi, Electrical Engineering, YCCE
11	Prof. Mrs. G.M. Dhopavkar, HoD Computer Technology	22	Dr. A.V. Bapat, Dean (Acad. Mat.) & Member Secretary

Leave of Absence granted to			
1	Dr. Rajesh Pande, Principal, Shri Ramdeobaba College of Engineering and Management, Nagpur	3	Mr. Milind Kank, Managing Director, Yeshshree Industries Ltd., Aurangabad
2	Mr. Sameer Bendre, Chief People Officer, Persistant System Ltd., Nagpur	4	Dr. Mrs. Jyoti V. Miskin, HoD, Chemistry



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Item 19.01: 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 19.02 To confirm the Minutes of 18th Meeting of the Academic Council and consider the action taken report.

The AC unanimously approved the minutes of Eighteenth meeting of Academic Council held on 24th February 2018 and Action Taken Report thereof.

Item 19.03 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 Courses

The BoS in Civil Engineering has proposed the following new courses.

- 1. Professional Electives-I(Sixth Sem BE)**
PE-I : Construction Engineering & Management
- 2. Professional Elective-III (Seventh Sem BE)**
PE-III Waste to Energy Conversion

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

Branch	Sem	Course Code & Name
Civil Engg.	8	CV1452: PE- 4: Advanced Surveying
Electrical Engg.	7	EL1431 : PE III: Advanced Control System
	8	EL1433: Renewable Energy Sources
	8	EL1436: PE 4 : Fundamentals of Smart Grid
	5	EL1302: Power Electronics
	6	EL1311: PE 1: Advanced Power Electronics
Electronics Engg.	6	EE1330 OE-II: Biomedical Instrumentation
	8	EE1416: PE 5: Biomedical Instrumentation & Its Applications



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Computer Tech	7	CT1437: PE 3: Parallel Computing
	8	CT1443: PE 4: Internet of Things
	7	CT1454: PE 3: Machine Learning Techniques
Information Tech.	5	IT1307: Computer Graphics
	6	IT1330: Business Intelligence
General Engg	1	Engineering Chemistry

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

Electronics Engg.	6 & 8	EE1330/EE1416: Introduction to Biomedical Instrumentation by Mandeep Singh, PHI Publication.
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❖ **The changes in the Lab Courses (M. Tech IPS) suggested by the BoS as below**

Electrical Engg.	2	EL1919 Lab Renewable Energy Systems
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Issue of MSE / Re MSE was discussed and it was decided that Dean (Academics Matters) shall find out solution for the same in consultation with BOS chairman.

It was informed that MSPA marks can be entered later if the term work is accepted by the teachers.

The AC approved the proposals of new Professional Elective courses to be offered by BoS Civil Engineering

The AC 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 19.04 To discuss and finalize the changes, if any, in Academic Regulations.

- ≠ UG Level credit criteria for progression for SoE 2018 on wards
- ≠ 'I' Grade to courses having 100% internal evaluation.

Actual names of the courses to be added in modified Academic Regulation



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≠ Re-MSE for students having CAMPUS Interview on regular MSE

The above changes in Academic Regulation were approved by the Academic Council.

Item 19.05 To discuss and approve the report of Controller of Examinations for Odd Term 2017-18 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. It was decided that

- ≠ *Paper pattern for two subjects to be moderated for First Semester from 2018-19 onwards.*
- ≠ *Paper pattern should be reviewed*
- ≠ *The practical ESE examination in Odd Term to be conducted by internal evaluators only and by Internal as well as external evaluators in Even Term Examination from 2018-19 onwards.*

The Academic Council accepted the report of Controller of Examinations for the Even Term of 2017-18.

Item 19.06 To discuss and approve the changes, if any, in Examination Manual

S. N.	Section/ Clause	Existing Details	Brief Details after change
1	EX20 Organization of ESE	20.16 – Nil (hence new addition)	20.16 Those student leaving examination hall before 3 hours will have to submit question paper along with answer book to invigilator. Student will be allowed to take question paper outside the examination hall only after 3 hours
2	EX20 Organization of ESE	20.17 – Nil (hence new addition)	20.17 Undertaking from student at Examination Centre shall be taken by invigilator if student do not have College ID Card or Admit Card at the time of Examination. The student will have to pay fine of Rs. 500=00



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3	EX35 35.6.1 Guidelines for Grace Marks	35.6.1 – Nil (hence new addition)	Maximum 3 Grace Marks /per subject can be given in two subjects of semester provided: ≠ Student is failed in only two subjects of that semester and all other subjects are clear pass. ≠ If Student is going to clear pass that semester after grace then grace will be given ≠ If student score less than 12 marks out of 60 in ESE then he / she is not eligible for grace marks ≠ If Student is failed in 3 or more subjects then grace marks will not be given in any subject (not Eligible)
4	EX35 35.6.2 Guidelines for Grace Marks	35.6.2 – Nil (hence new addition)	The benefit of extra time and grace marks, will be given to physically handicapped students as mentioned in the GR of Higher & Technical Education Department, Government of Maharashtra (GR No. संकीर्ण – 2016/ प्र. क्र.302/ विशि – 3 dated 04 March 2017).
5	EX35 35.7 Explanation of Grades	'I' Grade : A student having attendance lower than 75% in a course, whatsoever may be the reason is prevented from appearing in the ESE for that course in that semester and the student will have to re- register for the course as and when it is offered. In such cases the student will be given "I" grade. The continuous assessment of laboratory course shall be null and void in such cases and the student shall have to re-register for the laboratory course as and when it is offered	'I' Grade : A student having attendance lower than 75% in a course, whatsoever may be the reason is prevented from appearing in the ESE for that course in that semester and the student will have to re- register for the course as and when it is offered. In such cases the student will be given "I" grade. The continuous assessment of laboratory course shall be null and void in such cases and the student shall have to re-register for the laboratory course as and when it is offered The courses where all 100 marks are internal with no ESE marks and if the student scores marks of 'Fail' Grade, then 'I' grade shall be awarded while preparing the result.
6	Ex 41A Instructions To The Students/ Examinees	41A. 24 – Nil (hence new addition)	41A. 24 Those student leaving examination hall before 3 hours will have to submit question paper along with answer book to invigilator. Student will be allowed to take question paper outside the examination hall only after 3 hours
7	Ex 41A Instructions To The Students/ Examinees	41A. 25 – Nil (hence new addition)	41A. 25 Undertaking from student at Examination Centre shall be taken by invigilator if student do not have College ID Card or Admit Card at the time of Examination. The student will have to pay fine of Rs. 500=00

The above changes in Examination Manual were approved by the Academic Council.



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Item 19.07 To discuss and approve the report of Dean (Academic Matters) for Odd Term 2017-18.

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

The report of the Dean (Academic Matters) for the Even Term of 2017-18 was approved by the Academic Council.

Item 19.08 To discuss and approve the report of Research Centre Activities for Even Term 2017-18.

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

It was suggested to conduct workshop on Technical / Paper writing skills, which is offered by Springer / Wiley.

The report Research Centre Activities for Even Term 2017-18 was approved by the Academic Council.

Item 19.09 To discuss the approve the report of the Training and Placement Office for Even Term 2017-18

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

AC suggested that the number of student Higher Studies / Entrepreneur, Off Campus placement, GRE & GATE data should also be presented. The report was accepted.

The report of Training and Placement Officer for Even Term 2017-18 was approved by the Academic Council.



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Item 19.10 To discuss the approve the report of the IQAC (Internal Quality Assurance Cell)

The report of the IQAC (Internal Quality Assurance Cell) was put before the members.

It was suggested to incorporate exam reform in the report.

The report of the IQAC (Internal Quality Assurance Cell) 2017-18 was approved by the Academic Council.

Item 19.11 Any other matter with the permission of the Chair

≠ **Additional Chance for RTMNU Special Scheme (Carry on Case)**

AC approved to offered additional chances for RTMNU Special Scheme for all carry on cases.

≠ **End semester examination passing marks criteria from 15 to 12**

Issue was discussed and additional data to be presented in next AC.

≠ **Inclusion of medals**

It is proposed to award of Gold Medal to Overall Topper of UG programmes of the institute as "**Dr. Shekhar D. Bhole**" Overall Topper Under Graduate Programmes To be awarded from 5th Graduation Ceremony onwards.

The AC approved the award of Gold Medal to Overall Topper of UG programmes of the institute as "Dr. Shekhar D. Bhole" Overall Topper Under Graduate Programmes

≠ **Discussion on change in Programme name of B. E. Electronics Engineering**

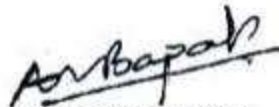
The issue of change in the branch name of Electronics Engineering to Electronics & Communication was discussed.

Academic Council authorized principal to take appropriated decision this regard.

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

The meeting concluded with thanks to the Chair.

Date: 08.09.2018


(Dr. A.V. Bapat)
Member Secretary



(52)

Nagar Yuwak Shikshan Sanstha's
YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING

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Academic Council 2018-21

19th Meeting 25th August 2018

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	LOA
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, Persistant System Ltd., Nagpur	LOA
7	Mr. Milind Kank	Managing Director, Yeshshree Industries Ltd., Aurangabad	LOA
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. Chaudhari	Head, Dept of Mech Engg, YCCE, Nagpur	
11	Dr. B.Y. Bagde	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	Prof. Mrs. G.M. Dhopavkar	Head, Dept of Computer tech, YCCE, Nagpur	
15	Prof. 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	LOA
19	Dr. P.K. Dakhole	Registrar, YCCE	
20	Prof. 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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Minutes of 20th meeting of Academic Council held on 02nd March 2019

The **Twentieth meeting** of Academic Council was held on **02nd March 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	12	Dr. Mrs. Manjusha P. Gandhi, HoD Mathematics and Humanities
2	Dr. Hemant Hajare, ITM College of Engineering, Nagpur	13	Dr. J.R. Ghulghule, HoD Physics
3	Dr. N.G. Bawane, Principal, Jhulelal Institute of Technology, Nagpur	14	Dr. Mrs. Jyoti V. Miskin, HoD, Chemistry
4	Mr. Priyadarshan Kshirsagar, Head Business (IT), Tata Motors Ltd., Pune	15	Dr. P.K. Dakhole, Registrar, YCCE
5	Dr. Shantanu R. Khandeshwar, HoD, Civil Engineering	16	Prof. Arvind Bhagatpatil, Dean (P & D)
6	Dr. Sharad S. Chaudhary, HoD, Mechanical Engineering	17	Prof. D.R. Raut, COE
7	Dr. B.Y. Bagde, HoD, Electrical Engineering	18	Dr. M.M. Raghuvanshi, Professor in Information Technology, YCCE
8	Dr. P.T. Karule, HoD Electronics Engineering	19	Dr. A.M. Pande, Professor in Civil Engg, YCCE and Director (R&D)
9	Dr. M.S. Narlawar, HoD, Electronics & Telecommunication Engineering	20	Dr. A.V. Patil, Professor, Civil Engineering, YCCE
10	Prof. Mrs. G.M. Dhopavkar, HoD Computer Technology	21	Dr. A.V. Bapat, Dean (Acad. Mat.) & Member Secretary
11	Prof. R.C. Dharmik, HoD, Information Technology		

Leave of Absence granted to			
1	Dr. Rajesh Pande, Principal, Shri Ramdeobaba College of Engineering and Management, Nagpur	3	Mr. Milind Kank, Managing Director, Yeshshree Industries Ltd., Aurangabad
2	Dr. N.C. Shivprakash, I.I.Sc., Bangalore	4	Prof. Aniket P. Munshi, Electrical Engineering, YCCE
3	Mr. Sameer Bendre, Chief People Officer, Persistant System Ltd., Nagpur		



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Item 20.01: 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 20.02 To confirm the Minutes of 19th Meeting of the Academic Council and consider the action taken report.

The Academic Council unanimously approved the minutes of Ninetieth meeting of Academic Council held on 25th August 2018 and Action Taken Report thereof.

Item 20.03 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 changes proposed by various boards regarding the syllabi of the courses of "Autonomous 2014" scheme as below

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

Branch	Sem	Course Code & Name
Civil Engg.	8	CV1428 - PE IV: Earthquake Engineering
Computer Tech	6	CT1345 : Software Engineering
	6	CT1353 PE I: Introduction to Geographical Information System
	8	CT1418 - PE IV: Digital Image Processing

❖ The changes in the reference books suggested by the BoS as below

Computer Tech	6	Software Engineering, 9th Edition, Ian Sommerville, University of St Andrews, Scotland, ©2011, Pearson.
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The Academic Council approved changes in course contents and changes in the /reference books for the courses mentioned above. These changes will be incorporated with immediate effect.

Item 20.04 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 changes proposed by various boards regarding the syllabi of the courses of "Autonomous 2018" scheme as below



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❖ The changes in name of suggested by the BoS as below

Branch	Sem	Existing Course Name	Proposed Course Name
Electronics & Telecomm. Engg	3	ET2203 Digital Circuit	ET2203 Digital Circuit and Fundamentals of Microprocessor
	4	ET2252 ; Microcontroller and application	ET2252 ; Microcontroller and Interfacing
	4	ET2256 Signals & Systems	ET2256 Control Systems
Information Tech.	4	IT2255: Operating Systems	IT2255: Data Base Management System

❖ The new subject added in the SoE 2018 (M. Tech Environment Engineering)suggested by the BoS as below

Branch	Sem	Course Code & Name
Civil Engineering	3	CV2989 ; Applied Structures

The Academic Council approved changes in course name, add course for the courses mentioned above. These changes will be incorporated with immediate effect.

Item 20.05 To discuss and approve the Autonomous 2019 scheme for PG Program s

Proposed Autonomous 2019 scheme for PG Programs were presented before Academic Council for discussion and approved

Department	Programmes
Civil Engineering	Structural Engineering
	Environmental Engineering
Mechanical Engineering	CAD-CAM
Electrical Engineering	Integrated Power Systems
Electronics Engineering	Electronics Engineering
Electronics & Telecomm. Engineering	Communication Engineering
Computer Technology	Computer Science and Engineering

The Academic Council approved to Autonomous 2019 scheme for PG Programs from session 2019-20 onwards.



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tem 20.06 To discuss and finalize the changes, if any, in Academic Regulations.

Changes proposed in Academic Regulations

Scheme of Examination

Proposed		Approved by the Academic Council
16.3	Audit Courses (Optional) A student will be allowed to register for a audit courses during the entire UG Program. Students will opt for audit courses only on recommendation of Faculty Advisor.	Approved by the Academic Council
13.9	Comprehensive viva The examination of student under this head is aimed at assessing the student's understanding of various subjects studied during the entire program. The Viva-voce examination will be conducted by a panel of examiners consisting of the departmental committee and at least one external expert, preferably from an Industry To be deleted for SoE 2018	Approved by the Academic Council

Evaluation

Proposed		Academic Council Decision
18.1	A student is evaluated for theory courses through Teachers Assessment (TA), three mid semester examinations (MSE) and one End Semester Examination (ESE)	Approved by the Academic Council
18.2	The relative weightage is 10% for TA, 30% from any two better of three MSE, and 60% for ESE. The teacher shall announce the method of TA at the beginning of the semester. All MSE and ESE are compulsory for all students. The marking will be on absolute basis. The total marks are calculated in each course as per the weightage indicated above. No credits are awarded if the student remains absent in the ESE.	Approved by the Academic Council
18.3	The laboratory courses will have Continuous Assessment (CA) which will be based on punctuality, turn to turn assessment of student's work, quality of records maintained, group discussions, overall understanding of the experiment and viva-voce examination (as per requirement of structure of course). The CA for laboratory courses shall be 40% and ESE may be on an experiment or viva or written test or a combination of these, and shall carry a weightage of 60%. Practical Courses with 100% continuous evaluation will not have ESE. The student shall either successfully complete the course or shall get I grade if the course work is not satisfactory	Approved by the Academic Council



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The Grading System

Proposed		
19.1.5	A student who has secured marks out of 100 and they are more than the minimum cut off as defined by Table No 2 (Statistical Method) or 4 (Absolute method) of AR, will be awarded suitable pass grade in that course only if he has scored at least 12 marks out of 60 at ESE in that course. This provision will be applicable from EVEN term 2018-19	Approved by the Academic Council
19.2.2	<p>The award of grades will be subjected to the following process:</p> <p>A) THEORY SUBJECTS If $(X-1.5) > 40$ then grade calculation for C+ , C, D & F shall be as given below , while that for A+,A,B+ & B shall be same as per Table 2 of the Academic Regulations: $C+ = > X - (X - 40)/3,$ $C \geq X - (X - 40) \times 2/3,$ $D \geq X - (X - 40) \times 3/3,$ $F \leq X - (X - 40) \times 3/3$</p> <p>B) THEORY SUBJECTS If $(X - 1.5) < 40$ for all those theory subjects with passing marks of 40 then lower limit for award of D grade shall be reduced up to 30 marks step by step, so that failure % as calculated by formula, Should not exceed 15%.</p> <p>C) PRACTICAL SUBJECTS: If $(X-1.5) < 50$ then Cutoff for passing shall be 50. But if $(X - 1.5) > 50$ then grades calculation for C+, C, D & F shall be as given below, while that for A+, A,B+ & B shall be same as per Table 2 of the Academic Regulations $C+ = > X - (X - 50)/3 ,$ $C \geq X - (X - 50) \times 2/3 ,$ $D \geq X - (X - 50) \times 3/3 ,$ $F < X - (X - 50) \times 3/3$</p>	Approved by the Academic Council



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Revised question paper format for Mid Semester Examination and End Semester Examination were presented.

The proposed changes in Academic Regulation were approved by the Academic Council.

- Item 20.07 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 accepted the report of Controller of Examinations for the Odd Term of 2018-19.

- Item 20.08 To discuss and approve the changes, if any, in Examination Manual.**

No changes in Examination Manual

- Item 20.09 To discuss and approve the report of Dean (Academic Matters) for Odd Term 2018-19.**

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

The report of the Dean (Academic Matters) for the Odd Term of 2018-19 was approved by the Academic Council.

- Item 20.10 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 Odd Term 2018-19 was approved by the Academic Council.



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Item 20.11 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.

The report of Training and Placement Officer for Odd Term 2018-19 was approved by the Academic Council.

Item 20.12 To discuss and approve specialization certificate course in Computer Science & Engineering, Mechatronics and Management Studies

The Academic Council approved to offer above mentioned specialization certificate courses.

Item 20.13 To discuss and approve to start new existing Under Graduate programme with honors and with minor & Ph.D. programme

≠ **Approval for starting existing Under Graduate progamme with honors and with minor.**

The Academic Council approved resolution to start new existing Under Graduate progamme with honors and with minor as per AICTE Guidelines for Model Curriculum November 2017, after taking due permission from Rashtrasant Tukadoji Maharaj Nagpur University.

≠ **Approval for starting new Ph. D. Programme.**

The Academic Council approved resolution to start new Ph.D. programmes as per University Grants Commission (Confemnt of Autonomous Status Upon Colleges and Measures for Maintenance of Standards in Autonomous Colleges) Regulations, 2018 point no 10.2 after taking due permission from Rashtrasant Tukadoji Maharaj Nagpur University



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Item 20.14 To start credit transfer scheme for one complete semester with reputed institute such as College of Engineering Pune and VNIT Nagpur etc.

The issue of credit transfer scheme for one complete semester was discussed.

The Academic Council approved to start credit transfer scheme for one complete semester.

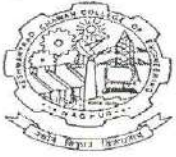
Item 20.15 Any other matter with the permission of the Chair

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

The meeting concluded with thanks to the Chair.

Date: 08.03.2019

(Dr. A.V. Bapat)
Member Secretary



Nagar Yuwak Shikshan Sanstha's
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Hingna Road, Wanadongri, Nagpur-411 110.

Academic Council 2018-21

20th Meeting 02nd March 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	LOA
3	Dr. Hemant Hajare	ITM College of Engineering, Behind Madhi Mandir, Ghorpad Road, Tah. Kamptee, Dist. Nagpur	 24/3/19
4	Dr. N.G. Bawane	Principal, Jhulelal Institute of Technology, Nagpur.	 02.3.19
5	Prof. Dr. N.C. Siva Prakash	Professor, Department of Instrumentation and Applied Physics, Indian Institute of Science, Bangalore 560 012	LOA
6	Mr. Sameer Bendre	Chief People Officer, Persistant System Ltd., Nagpur	LOA
	Mr. Milind Kank	Managing Director, Yeshshree Industries Ltd., Aurangabad	LOA
8	Mr. Priyadarshan Kshirsagar	S. & G.M. - Prod. Line. EVBU, Tata Motors 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. B.Y. Bagde	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	
	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	
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. Raghuwanshi	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	LOA
26	Dr. A.V. Bapat, Member Secretary	Professor in Electronics Engineering, YCCE, Nagpur; and Dean Academic Matters	



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Minutes of 17th meeting of Academic Council held on 26 August 2017

The **Seventeenth meeting** of Academic Council was held on **26th August 2017** at 10.30 am in the Board Room of YCCE, Nagpur. The following members attended the 17th meeting of the Academic Council.

1	Dr. U.P. Waghe, Principal & Chairman, AC	13	Dr. Mrs. Kavita R. Singh, HoD Comp. Tech.
2	Dr. M.D. Choudhari, Chief Coordinator, Faculty of Engg and Tech., RTM Nagpur University (V.C.'s Nominee)	14	Dr. Ms. Ujwala Gawande, HoD, Information Tech.
3	Dr. V.H. Tatwawadi, Principal, DBA CoER, Nagpur (VC's Nominee)	15	Dr. Mrs. Manjusha P. Gandhi, HoD Mathematics
4	Dr. G.H. Agrawal, KDK College of Engg, Nagpur (VC's Nominee)	16	Dr. Mrs. S.A. Fadnavis, HoD, Physics
5	Dr. N.C. Shivprakash, I,I,Sc., Bangalore	17	Dr. P.K. Dakhole, Registrar
6	Mr. Sunil C. Panchbhai, LG Electronics, Pune	18	Dr. P.T. Karule, COE
7	Mr. Chandrashekar Joshi, Fujitsu Consulting India, Pune	19	Prof. Arvind Bhagatpatil, Dean (P & D)
8	Dr. Shantanu R. Khandeshwar, HoD, Civil Engg.	20	Dr. K.K. Bhojar, Professor, Information Tech, YCCE
9	Dr. Sharad S. Chaudhary, HoD, Mechanical Engg.	21	Dr. A.V. Patil, Professor, Civil Engg., YCCE
10	Dr. Ravindra Moharil, HoD, Electrical Engg.	22	Prof. Aniket P. Munshi, Electrical Engg., YCCE
11	Dr. Atish Khobragade, HoD Electronics Engg	23	Dr. A.V. Bapat, Dean (Acad. Mat.) & Member Secretary
12	Dr. P.L. Zade, HoD, Electronics & Tele Engg		

Leave of Absence granted to			
1	Mr. Rajendra Jodhpurkar, Persistent Systems, STP, Nagpur.	2	Dr. Mrs. Jyoti V. Miskin, HoD, Chem.



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Item 17.1 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 17.2 To confirm the Minutes of 16th Meeting of the Academic Council and consider the action taken report.

The AC unanimously approved the minutes of Sixteenth meeting of Academic Council held on 25th Feb. 2017 and Action Taken Report thereof.

Item 17.3 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.

Part A: The **minor** changes proposed by various boards regarding the syllabi of the courses of "**Autonomous 2014**" scheme are shown in the following table

BoS	Semester	Course Code & Name
Civil Engineering	UG-3	CV1203: Geotechnical Engineering-I
	UG-5	CV1307: Structural Analysis-I
	UG-6	CV1333: Geotechnical Engineering-II
	UG-5	CV1302: Lab. Surveying-II
	UG-7	CV1442: Lab. Computer Application in Civil Engineering
	UG-8	CV1424: Comprehensive Viva Voce
Electrical Engineering	PG-3	EL1938-PE-4: Power Electronics for Renewable Energy Systems >20
	UG	EL1204: Lab. Electrical Machine-I
		EL1208: Lab. Electrical Machine-II
	EL1404: Lab. Computer Applications in Electrical Engineering	
Electronics	UG	EE1202- Lab Electronics Devices
		EL1202: Lab. Network Analysis
		EL1201: Network Analysis



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Engineering	PG-3	EE1987: VLSI for Wireless Communication
Electronics & Telecommunication Engineering	UG-8	ET1419- Power Electronics
	UG-3	EI1201: Network Analysis
Computer Technology	UG	Ct1203: Data Structure
Information Technology	UG-8	IT1419: Software Testing IT1403: Principles of Compiler Design IT1423:PE-4: Human Computer Interaction
	UG-1 & 2	IT1101: Introduction to Computer Programming
	UG-3	IT1201: Introduction to Information Technology
	UG-4	IT1208: Computer Architecture and Organization

The changes in the text / reference books suggested by the BoS as below

BoS	Semester	Course Code & Name
Civil Engineering	UG-3	GE 1202: Engineering Geology
Electrical Engineering	UG-7	EL1431: PE 2: Advance Control System
	PG-1	EL1901: Advance Power Electronics
Electronics & Telecommunication Engineering	UG-3	EI1201: Network Analysis
Computer Technology	UG	Ct1203: Data Structure



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Information Technology	UG-3	IT1207: Lab. Microprocessor Based System Design IT1205: Lab. Algorithms & Data Structures
	UG-4	IT1210: Lab. Computer Workshop IT1203: Lab. Object Oriented Programming
	UG-5	IT1304: Lab. Operating Systems IT1306: Lab. Software Engineering IT1317: Lab. Data Base Management Systems
	UG-6	IT1339: Lab. Computer Networks IT1331: Lab. Business Intelligence IT1332: Lab. Design & Analysis of Algorithms
	UG-7	IT1404: Lab. Principle of Compiler Design IT1418: Lab. Network Programming
	UG-8	IT1428: Lab. Data Mining IT1431: Lab. Network Security IT1433: Lab. Cloud Computing IT1438: Lab. Human Computer Interaction IT1435: Lab. Software Quality Assurance IT1437: Lab. Pattern Recognition IT1439: Lab. Coding Standard and Technical Documentation IT1440: Lab. Distributed System

Part B: Proposed New Courses:

- The BoS in General Engineering has proposed the following new courses.

Proposed Syllabus for Open Electives-II (Sixth Sem BE)

1. GE1316: Probability Theory and Statistical Inference

Audit Courses:

1. GE1122: Functional English-1
2. GE1221: Functional English-2
3. GE1123: Functional English-5
4. GE1321: Remedial Grammar



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- The BoS in Civil Engineering has proposed the CV1456: PE-5 Advance Geotechnical Engineering of 8th Semester will be introducing first time in the next session. The course contents of present subject need to be changed consequently, the subject title will also be changed. The new course will be CV1456- PE-5: Advanced Foundation Engineering.
- The BoS in Information Technology has proposed the following **new audit course for 5th Semester BE.**
 1. IT1121: Industrial Programming Language

Part C: Reorganization of the Scheme of Examination:

After implementing One Term internship for BE Information Technology, it was necessary to reorganized Scheme of Examination for 7 & 8 semester Information Technology to avoid teaching of few theory courses during summer. The BoS of information Technology has proposed the reorganization of the Scheme of Examination for Final Year as under.

Department of Information Technology SCHEME OF EXAMINATION UG 2014 - Modified (2017-18)

Sr. No.	Course Code	Course Title	CONTACT HOURS				Credits	% Weightage				ESE Duration Hrs.
			L	T	P	Total Contact Hours		MSE - I	MSE - II	TA	ESE	
SEMESTER VII Group "A"												
1	IT1403	Principle of Compiler Design	3	1	0	4	4	15	15	10	60	3 Hrs
2	IT1404	Lab: Principle of Compiler Design	0	0	2	2	1			40	60	
3	IT1417	Network Programming	4	0	0	4	4	15	15	10	60	3 Hrs
4	IT1418	Lab: Network Programming	0	0	2	2	1			40	60	
5	IT1427	Data Mining	4	0	0	4	4	15	15	10	60	3 Hrs
6	IT1428	Lab: Data Mining	0	0	2	2	1			40	60	
7	IT1422	Network Security	3	0	0	3	3	15	15	10	60	3 Hrs



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8	Professional Elective 3		3	0	0	3	3	15	15	10	60	3 Hrs
	IT1407	PE3: Real Time Systems										
	IT1423	PE3: Human Computer Interaction										
	IT1429	PE3: Advanced Computer Architecture										
	IT1430	PE3: E-Commerce										
	IT1432	PE3: Cloud Computing										
IT1436	PE3: Coding Standard and Technical Documentation											
9	Professional Elective 4		3	0	0	3	3	15	15	10	60	3 Hrs
	IT1415	PE4: Neural Networks & Fuzzy Logic										
	IT1405	PE4: Pattern Recognition										
IT1421	PE4: Distributed Systems											
10	Lab Professional Elective 4		0	0	2	2	1	15	15	10	60	3 Hrs
	IT1416	PE4: Lab : Neural Networks & Fuzzy Logic										
	IT1439	PE4: Lab: Pattern Recognition										
IT1440	PE4: Lab: Distributed System											
Total			20	1	8	29	25					
SEMESTER VII Group "B"												
1	IT1424	Industrial Project (Industry Visit/Training/Seminar)	0	0	30	30	20			40	60	
2	IT1426	Extra Curricular Activity	0	0	0	0	2			100		
3	IT1425	Comprehensive Viva-Voce	0	0	0	0	3				100	
Total			0	0	30	30	25					
Total All			20	1	38	59	50					



Nagar Yuwak Shikshan Sanstha's

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Department of Information Technology

SCHEME OF EXAMINATION UG 2014 - Modified (2017-18)

Sr. No.	Course Code	Course Title	CONTACT HOURS				Credits	% Weightage				ESE Duration Hrs.
			L	T	P	Total Contact Hours		MSE-I	MSE-II	TA	ESE	
SEMESTER VII Group "A"												
1	IT1424	Industrial Project (Industry Visit/Training/Seminar)	0	0	30	30	20			40	60	
2	IT1426	Extra Curricular Activity	0	0	0	0	2			100		
3	IT1425	Comprehensive Viva-Voce	0	0	0	0	3				100	
		Total	0	0	30	30	25					
SEMESTER VII Group "B"												
1	IT1403	Principle of Compiler Design	3	1	0	4	4	15	15	10	60	3 Hrs
2	IT1404	Lab: Principle of Compiler Design	0	0	2	2	1			40	60	
3	IT1417	Network Programming	4	0	0	4	4	15	15	10	60	3 Hrs
4	IT1418	Lab: Network Programming	0	0	2	2	1			40	60	
5	IT1427	Data Mining	4	0	0	4	4	15	15	10	60	3 Hrs
6	IT1428	Lab: Data Mining	0	0	2	2	1			40	60	
7	IT1422	Network Security	3	0	0	3	3	15	15	10	60	3 Hrs
8	Professional Elective 3		3	0	0	3	3	15	15	10	60	3 Hrs
	IT1407	PE3: Real Time Systems										
	IT1423	PE3: Human Computer Interaction										
	IT1429	PE3: Advanced Computer Architecture										
	IT1430	PE3: E-Commerce										
	IT1432	PE3: Cloud Computing										
IT1436	PE3: Coding Standard and Technical Documentation											
9	Professional Elective 4		3	0	0	3	3	15	15	10	60	3 Hrs
	IT1415	PE4: Neural Networks										



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		& Fuzzy Logic										
	IT1405	PE4: Pattern Recognition										
	IT1421	PE4: Distributed Systems										
10	Lab Professional Elective 4		0	0	2	2	1	15	15	10	60	3 Hrs
	IT1416	PE4: Lab : Neural Networks & Fuzzy Logic										
	IT1439	PE4: Lab: Pattern Recognition										
	IT1440	PE4: Lab: Distributed System										
Total			20	1	8	29	25					
Total All			20	1	38	59	50					

Part D: Electronic Question Banks

The Electronic question banks (EQB) for all courses of First Year BE & Third Semester BE all branches are complete and are being used for setting of question papers.

EQBs for higher semesters are under preparation. The validation of EQB for 4th Semester of all departments shall be done before January 2018.

The AC approved changes in syllabi as well changes in the text/reference books for the courses mentioned above. These changes will be incorporated with immediate effect.

The AC noted the proposals of new courses to be offered by BoS General Engineering.

The AC has also approved the reorganized scheme for BE in Information Technology.

Part E : The following lab courses will be internally evaluated.

1- IT1102-Introduction to Computer Programing Lab

2- ME1102- Engineering Graphics Lab



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The changes in SoE on account of above are accepted by the AC. This change will be effective from session 2017-18

Item 17.4 To discuss the changes in the intake of existing programs or starting of new UG/ PG programs

1. Increase in intake of BE Information Technology from 60 to 120
2. Closures of following Post Graduate programmes
 - a. M. Tech. VLSI D. (shift-I)
 - b. M. Tech. VLSI D. (shift-II)
 - c. M. Tech. Computer Science Engineering (shift-II)
 - d. M. Tech. Information Technology
 - e. M. Tech. Production Engineering

The Academic Council authorized the Chairman to decide variation in the intake or closure of the program(s). The decisions shall be put up in Board of Management meeting.

Item 17.5 To discuss and finalize the changes, if any, in Academic Regulations.

The above changes in Academic Regulation were approved by the Academic Council.

Item 17.6 To discuss and approve the report of Controller of Examinations for Even Term 2016-17 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 items in the report, mainly the results.



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The Academic Council accepted the report of Controller of Examinations for the Even Term of 2016-17. The academic council advice BoS to be more scrupulous while doing moderation work of MSE question papers.

Academic council suggested to consider provision to give grace marks on lines of RTMNU.

Item 17.7 To discuss and approve the changes, if any, in Examination Manual

There are no changes proposed in the Examination Manual.

Item 17.8 To discuss and approve the report of Dean (Academic Matters) for Even Term 2016-17.

The report of the Dean (Academic Matters) was put before the members. The report was accepted. However, members suggested few more items to be included in the report. These are NCC, NSS and other social activities.

The report of the Dean (Academic Matters) for the Even Term of 2016-17 was approved by the Academic Council. The additional items as suggested by the members will be included in the report from next time onwards.

Item 17.9 To discuss and approve the report of Research Centre Activities for Even Term 2016-17.



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The report of the Research Centre Activities was put before the members. The report was accepted. The members suggested that numbers research paper published by faculty should presented in tabular form.

The report Research Centre Activities for Even Term 2016-17 was approved by the Academic Council.



Nagar Yuwak Shikshan Sanstha's

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Item 17.10 To discuss the approve the report of the Training and Placement Officer for Even Term 2016-17

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

AC suggested that the off campus placement data should also be presented

The report was accepted.

The report of Training and Placement Officer for Even Term 2016-17 was approved by the Academic Council.

Item 17.11 Any other matter with the permission of the Chair

1. Award of Grace Marks

The issue of award of grace marks was discussed and AC approved to award grace marks in line with RTM Nagpur University.

The proposed Academic Regulation is as under

- Grace marks will be awarded for enabling the student for passing an examination.
- Grace marks shall be awarded for enabling a student for securing "D" grade.
- The maximum of 03 grace marks shall be awarded in a course.
- The grace marks will be awarded in maximum 02 courses of given examination.

Award of grace marks shall be reflected in Grade Sheet for that course with asterisk.

Students passing with grace marks shall not be eligible to be placed in merit list or any medals prizes.



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The above regulation will be come into force with effect from date of its approval by BOM.

2. Dr. Shivprakash suggested so that NIRF ranking of the college should improve to less than 100.
3. Dr. M.D. Choudhary suggested that the courses such as Labor Laws, financial Management, Intellectual property, etc. should be offered. He also suggested to adopt village and provide social service jointly with NGO.
4. Mr. Sunil C. Panchbhai, LG Electronics, Pune suggested to increase programs on entrepreneurship. He also offered to help in interaction with IIT Mumbai.
5. Mr. Chandrashekhar Joshi, Fujitsu Consulting India, Pune suggested that new courses such as AI, IoT, should be incorporated in SoE of EE & ETC.

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

The meeting concluded with thanks to the Chair.

Date: 30.08.2017

(Dr. A.V. Bapat)
Member Secretary



Nagar Yuwak Shikshan Sanstha's

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Academic Council 2016-18

17th Meeting 26th August 2017

SN	MEMBERS	Affiliation	Signature
1	Dr. U.P. Waghe	Professor in Civil Engg, YCCE, Nagpur; and Principal	
2	Dr. M.D. Choudhari	Professor in Chemistry, BD College of Engineering, Sevagram Distt Wardha	
3	Dr. V.H. Tatwawadi	Principal, DBA College of Engg, Wanadongri, Nagpur	
4	Dr. G.H. Agrawal	Professor and Head, Dept. of Electrical Engg, KDK College of Engg, Nagpur	
5	Prof. Dr. N.C. Siva Prakash, Professor, IISc, Bangalore	Department of Instrumentation and Applied Physics, Indian Institute of Science, Bangalore 560 012	
6	Mr. Sunil C. Panchbhai	Dy. General Manager, Team Head-Development, LG Electronics India Pvt Ltd., Plot No. A-5, MIDC Ranjangaon, Tal. Shirur, Pune-412209	
7	Mr. Rajendra Jodhpurkar	Delivery Head, Life Science & Healthcare, Persistent Systems, Software Technology Park, Near VNIT, Nagpur 440022.	LOA
8	Mr. Chandrashekhar Joshi	Head, Competency Unit - MIS, FUJITSU CONSULTING INDIA, A-15 MIDC Technology Park Talawade Pune 412114	
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. R.M. Moharil	Head, Dept of Electrical Engg, YCCE, Nagpur	
12	Dr. A.S. Khobagade	Head, Dept of Electronics Engg, YCCE, Nagpur	
13	Dr. Prasanna L. Zade	Head, Dept of Electronics and Telecomm, YCCE, Nagpur	
14	Dr. Mrs. Kavita R. Singh	Head, Dept of Computer tech, YCCE, Nagpur	High 26/08/2017
15	Dr. Ms. Ujwala H. Gawande	Head, Dept of Information Tech, YCCE, Nagpur	26/8/17
16	Dr. Mrs. Manjusha P. Gandhi	Head, Dept. of Mathematics and Humanities, YCCE, Nagpur	26/8/17
17	Dr. Mrs. S. A. Fadnavis	Head, Physics, YCCE, Nagpur	26/8/17
18	Dr. Mrs. Jyoti V. Miskin	Head, Dept of Chemistry, YCCE, Nagpur	LOA.
19	Dr. P.K. Dakhoie	Professor in Electronics Engg, YCCE, Nagpur; and Registrar	26/8/17
20	Prof. A.R. Bhagat Patil	Asso. Professor in Computer Technology, YCCE, Nagpur; and Dean (P&D)	
21	Dr. P.T. Karule	Professor in Electronics Engg, YCCE, Nagpur; and Controller of Examinations	
22	Dr. K.K. Bhojar	Professor in Information Technology, YCCE, Nagpur; and Chairman of Result Review & Moderation Committee	
23	Dr. A.V. Patil	Professor in Civil Engg, YCCE, Nagpur; and Chairman of Self Assessment of Autonomy	
24	Prof. Aniket P. Munshi	A.P. in Electrical Engg, YCCE, Nagpur	
25	Dr. A.V. Bapat, Dean (Academic Matters)	Professor in Electronics Engineering, YCCE, Nagpur; and Dean Academic Matters	



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Minutes of 18th meeting of Academic Council held on 24 February 2018

The **Eighteenth meeting** of Academic Council was held on **24th February 2017** at 10.30 am in the Board Room of YCCE, Nagpur. The following members attended the meeting.

1	Dr. U.P. Waghe, Principal & Chairman, AC	13	Dr. Milind M. Mushrif, HoD, Electronics & Telecommunication Engineering
2	Dr. M.D. Choudhari, Chief Coordinator, Faculty of Engineering and Tech., RTM Nagpur University (V.C.'s Nominee)	14	Dr. Mrs. Kavita R. Singh, HoD Computer Technology
3	Dr. V.H. Tatwawadi, Principal, DBA CoER, Nagpur (VC's Nominee)	15	Dr. Ms. Ujwala Gawande, HoD, Information Technology
4	Dr. G.H. Agrawal, KDK College of Engineering, Nagpur (VC's Nominee)	16	Dr. Mrs. Jyoti V. Miskin, HoD, Chemistry
5	Dr. N.C. Shivprakash, I,I,Sc., Bangalore	17	Dr. P.K. Dakhole, Registrar
6	Mr. Sunil C. Panchbhai, LG Electronics, Pune	18	Prof. Arvind Bhagatpatil, Dean (P & D)
7	Mr. Rajendra Jodhpurkar, INFOCEPTS Software Technology, Nagpur	19	Dr. P.T. Karule, COE
8	Mr. Chandrashekhar Joshi, Fujitsu Consulting India, Pune	20	Dr. KK. Bhojar, Professor, Information Technology, YCCE
9	Dr. Shantanu R. Khandeshwar, HoD, Civil Engineering	21	Dr. A.V. Patil, Professor, Civil Engineering, YCCE
10	Dr. Sharad S. Chaudhary, HoD, Mechanical Engineering	22	Prof. Aniket P. Munshi, Electrical Engineering, YCCE
11	Dr. Ravindra Moharil, HoD, Electrical Engineering	23	Dr. A.V. Bapat, Dean (Acad. Mat.) & Member Secretary
12	Dr. Atish Khobragade, HoD Electronics Engineering		

Leave of Absence granted to			
1	Dr. Mrs. Manjusha P. Gandhi, HoD Mathematics	2	Dr. Mrs. S.A. Fadnavis, HoD, Physics

Item 18.1: Welcome of members

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



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Item 18.2 To confirm the Minutes of 17th Meeting of the Academic Council and consider the action taken report.

The AC unanimously approved the minutes of Seventeenth meeting of Academic Council held on 26th August 2017 and Action Taken Report thereof.

Item 18.3 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 are shown in the following table

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

BoS	Sem	Course Code & Name
Electrical Engineering	3	EL1202: Lab: Network Analysis
	8	EL1434: Lab: Renewable Energy Sources
Electronics Engineering	8	PE V :EE 1438 MECHATRONICS
Computer Technology	6	CT1349 PE I : Business Intelligence and Its Applications
	6	CT1314 : Design & Analysis of Algorithms
	7	CT1408 : PE III: CLOUD COMPUTING
	4	CT1207 : Computer Architecture & Organization
	2	CSE1919 : Data Warehousing

The AC 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 18.4 To discuss and approve UG & PG scheme of examination 2018 and syllabus for semester I to IV for academic year 2018-19 onwards

After detailed discussion the Academic Council approved UG PG Scheme of Examination 2018 and syllabus of First to Fourth Semester. The Academic Council suggested to change course title of so that the title will indicate the course contents. The details of changes are as under

Semester	Course Title	Suggested Course Title
Civil Engineering		
3	Geotechnical Engineering-I	Geotechnical Engineering
3	Fluid Mechanics-I	Fluid Mechanics
3	Env. Engg-I	Water Supply Engineering
4	Structural Analysis-I	Structural Analysis
5	Structural Analysis-II	Advanced Structural Analysis
6	Fluid Mechanics-II	Hydraulic Engineering
6	Geotechnical Engineering-II	Foundation Engineering
7	Env. Engg-II	Wastewater Collection
7	PE-IV Foundation Engineering	PE-IV Advanced Foundation Engineering
Mechanical Engineering		
3	Manufacturing Process-I	Machining Processes
4	Manufacturing Process-II	Manufacturing Processes
3	Electrical Machines-I	Electrical Machines
4	Electrical Machines – II	Electrical Machines in Power System
5	EPS-I	Fundamentals of Power System
6	EPS-II	Power System Analysis
6	Electrical Drives – I	Electrical Drives
Computer Technology		
3	Data Structures -I	Data Structures
4	Data Structures -II	Advance Data Structures
Information Technology		
3	Data Structures and Program Design-I	Basics of Data Structures
4	Data Structures and Program Design-II	Advance Data Structures
Mathematics		
4	Mathematics-IV	Advance Mathematical Techniques (BR: CV,ME,EL,EE & ETC) Statistical and Optimization Techniques (BR: CT & IT)

The final year Scheme should be grouped as Group "A" & Group "B" so that internship can be offered in both Odd as well as Even semester.



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Item 18.5 To discuss and finalize the changes, if any, in Academic Regulations.

The Academic council approved the inclusion of rules regarding the AWARD of semester ranks as per notification dt 25.01.2018 Ref No. YCCE/DAM//2017-18/145

Item 18.6 To discuss and approve the report of Controller of Examinations for Odd Term 2017-18 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 accepted the report of Controller of Examinations for the Odd Term of 2017-18.

Item 18.7 To discuss and approve the changes, if any, in Examination Manual

There are no changes proposed in the Examination Manual.

Item 18.8 To discuss and approve the report of Dean (Academic Matters) for Odd Term 2017-18.

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

The report of the Dean (Academic Matters) for the Odd Term of 2017-18 was approved by the Academic Council.



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Item 18.9 To discuss and approve the report of Research Centre Activities for Odd Term 2017-18.

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

The report Research Centre Activities for Odd Term 2017-18 was approved by the Academic Council.

Item 18.10 To discuss the approve the report of the Training and Placement Officer for Odd Term 2017-18

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

AC suggested that the average package data should also be presented. The report was accepted.

The report of Training and Placement Officer for Odd Term 2017-18 was approved by the Academic Council.

Item 18.11 Any other matter with the permission of the Chair

➤ **Approval of Draft Vision Mission statement of Institute & Departments**

The Academic Council authorize the Chairman Academic Council to finalize the Vision Mission statement Quality policy, Core values and Punch Line of the Institute and Vision Mission statement of all the departments with modifications, if any , in consultation with competent authority.

➤ **End semester examination passing marks criteria from 15 to 12**

Academic council decided to continue with existing passing criteria of ESE (i.e. 15 marks)



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➤ ***Inclusion of medals endowment.***


Academic council approved endowment of Gold Medal to most outstanding student of the institute as "Mr. Sanjeev Kumar Das-CT-1992-Most Outstanding Student Award" from 5th Graduation Ceremony onwards.

The 18th Academic Council meeting was the last meeting for this committee. Chaiman thanked all the members of Academic Council, especially the external members for the valuable inputs and active participation.

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

The meeting concluded with thanks to the Chair.

Date: 27.02.2018


(Dr. A.V. Bapat)
Member Secretary



Nagar Yuwak Shikshan Sanstha's

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Academic Council 2016-18

18th Meeting 24th February 2018

SN	MEMBERS	Affiliation	Signature
1	Dr. U.P. Waghe	Professor in Civil Engg, YCCE, Nagpur; and Principal	
2	Dr. M.D. Choudhari	Professor in Chemistry, BD College of Engineering, Sevagram Distt Wardha	
3	Dr. V.H. Tatwawadi	Principal, DBA College of Engg., Wanadongri, Nagpur	
4	Dr. G.H. Agrawal	Professor and Head, Dept. of Electrical Engg, KDK College of Engg, Nagpur	
5	Prof. Dr. N.C. Siva Prakash, Professor, IISc, Bangalore	Department of Instrumentation and Applied Physics, Indian Institute of Science, Bangalore 560 012	
6	Mr. Sunil C. Panchbhai	Dy. General Manager, Team Head-Development, LG Electronics India Pvt Ltd., Plot No. A-5 MIDC, Ranjangaon, Tal. Shirur, Pune-412209 INACCEPTS	
7	Mr. Rajendra Jodhpurkar	Delivery Head, Life Science & Healthcare, Persistent Systems, Software Technology Park, Near VNIT, Nagpur 440022	
8	Mr. Chandrashekhar Joshi	Head, Competency Unit - MIS, FUJITSU CONSULTING INDIA, A-15 MIDC Technology Park Talawade Pune 412114	
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. R.M. Moharil	Head, Dept of Electrical Engg, YCCE, Nagpur	
12	Dr. A.S. Khobagade	Head, Dept of Electronics Engg, YCCE, Nagpur	
13	Dr. Milind M. Mushrif	Head, Dept of Eletronics and Telcomm, YCCE, Nagpur	
14	Dr. Mrs. Kavita R. Singh	Head, Dept of Computer tech, YCCE, Nagpur	
15	Dr. Ms. Ujwala H. Gawande	Head, Dept of Information Tech, YCCE, Nagpur	
16	Dr. Mrs. Manjusha P. Gandhi	Head, Dept. of Mathematics and Humanities, YCCE, Nagpur	
17	Dr. Mrs. S. A. Fadnavis	Head, Physics, YCCE, Nagpur	
18	Dr. Mrs. Jyoti V. Miskin	Head, Dept of Chemistry, YCCE, Nagpur	
19	Dr. P.K. Dakhole	Professor in Electronics Engg, YCCE, Nagpur; and Registrar	
20	Prof. A.R. Bhagat Patil	Asso. Professor in Computer Technology, YCCE, Nagpur; and Dean (P&D)	
21	Dr. P.T. Karule	Professor in Electronics Engg, YCCE, Nagpur; and Controller of Examinations	
22	Dr. K.K. Bhojar	Professor in Information Technology, YCCE, Nagpur; and Chairman of Result Review & Moderation Committee	
23	Dr. A.V. Patil	Professor in Civil Engg, YCCE, Nagpur; and Chairman of Self Assessment of Autonomy	
24	Prof. Aniket P. Munshi	A.P. in Electrical Engg, YCCE, Nagpur	
25	Dr. A.V. Bapat, Dean (Academic Matters)	Professor in Electronics Engineering, YCCE, Nagpur; and Dean Academic Matters	



Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

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

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

Hingna Road, Wanadongri, Nagpur - 441 110

Ph.: 07104-242919, 242623, Fax: 07104-242376, Website: www.ycce.edu

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Minutes of 15th meeting of Academic Council held on 03 September 2016

The **Fifteenth meeting** of Academic Council was held on **03rd September 2016** at 10.30 am in the Board Room of YCCE, Nagpur. The following members attended the 15th meeting of the Academic Council.

1	Dr. U.P. Waghe, Principal & Chairman, AC	12	Dr. Mrs. Kavita R. Singh, HoD Comp. Tech.
2	Dr. M.D. Choudhari, Chief Coordinator, Faculty of Engg and Tech., RTM Nagpur University (V.C.'s Nominee)	13	Dr. Ms. Ujwala Gawande, HoD, Information Tech.
3	Dr. V.H. Tatwawadi, Principal, DBA CoER, Nagpur (VC's Nominee)	14	Dr. Mrs. Manjusha P. Gandhi, HoD Mathematics
4	Dr. G.H. Agrawal, KDK College of Engg, Nagpur (VC's Nominee)	15	Dr. Mrs. S.A. Fadnavis, HoD, Physics
5	Dr. N.C. Shivprakash, I,I,Sc., Bangalore	16	Dr. Mrs. Jyoti V. Miskin, HoD, Chem.
6	Mr. Rajendra Jodhpurkar, Persistent Systems, STP, Nagpur.	17	Dr. P.K. Dakhole, Registrar
7	Dr. Sudhir V. Ambekar, HoD, Civil Engg.	18	Dr. P.T. Karule, COE
8	Dr. Sharad S. Chaudhary, HoD, Mechanical Engg.	19	Dr. K.K. Bhojar, Professor, Information Tech, YCCE
9	Prof. Bhushan Y. Bagde, HoD, Electrical Engg.	20	Dr. A.V. Patil, Professor, Civil Engg., YCCE
10	Dr. Mrs. S.V. Rathkanthiwar, HoD Electronics Engg	21	Prof. Aniket P. Munshi, Electrical Engg., YCCE
11	Dr. P.L. Zade, HoD, Electronics & Tele Engg	22	Prof. S.D. Bhole, Dean (Acad. Mat.) & Member Secretary

Leave of Absence granted to

1	Mr. Sunil C. Panchbhai, LG Electronics, Pune	2	Mr. Chandrashekhar Joshi, Fujitsu Consulting India, Pune
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Item 15.1: Welcome of new members

- The Academic Council was reconstituted for the two year term 2016-18. The Vice Chancellor nominated following three academicians on the AC.
 1. Dr. M.D. Choudhari, Chief Coordinator, Faculty of Engg and Tech., RTM Nagpur University and Professor in Chemistry, BD College of Engineering, Sevagram Distt Wardha
 2. Dr. V.H. Tatwawadi, Principal, DBA College og Engg., Wanadongri, Nagpur
 3. Dr. G.H. Agrawal, Professor and Head, Dept. of Electrical Engg, KDK College of Engg, Nagpur
- The BoM nominated the following academicians/ industry persons on the AC.
 1. Prof. Dr. N.C. Siva Prakash, Professor, Department of Instrumentation and Applied Physics, Indian Institute of Science, Bangalore 560 012
 2. Mr. Sunil C. Panchbhai , Dy. General Manager, Team Head-Development, LG Electronics India Pvt. Ltd., Plot No. A-5, MIDC, Ranjangaon, Tal. Shirur, Pune- 412209,
 3. Mr. Rajendra Jodhpurkar, Delivery Head, Life Science & Healthcare, Persistent Systems, Software Technology Park, Near VNIT, Nagpur 440022.
 4. Mr. Chandrashekhar Joshi, Head, Competency Unit - MIS, FUJITSU CONSULTING INDIA, A-15 MIDC Technology Park Talawade Pune 412114
- The Chairman of the Academic Council nominated the following faculty members on the AC
 1. Dr. P.K. Dakhole, Professor in Electronics Engg, YCCE, Nagpur; and Registrar
 2. Dr. P.T. Karule, Professor in Electronics Engg, YCCE, Nagpur; and Controller of Examinations
 3. Dr. K.K. Boyar, Professor in Information Technology, YCCE, Nagpur; and Chairman of Result Review & Moderation Committee
 4. Dr. A.V. Patil, Professor in Civil Engg, YCCE, Nagpur; and Chairman of Self-Assessment of Autonomy
- The Chairman invited Prof. Aniket P. Munshi, A.P. in Electrical Engg, and Faculty In Charge of Students Activities, YCCE., on the Academic Council

Minutes of 15th meeting of Academic Council held on 03 September 2016

- The Chairman nominated Dr. S.D. Bhole, Asso. Professor in Civil Engg, YCCE, Nagpur; and Dean Academic Matters as Member Secretary of the Academic Council

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

Item 15.2. To confirm the Minutes of 14th Meeting of the Academic Council and consider the action taken report.

The 14th meeting of Academic Council was held on 16 January 2016.

The minutes and action taken report on the decisions/ directions of the proceedings of Fourteenth meeting of AC was discussed. Dr. N.C. Shivprakash proposed that the minutes and ATR be approved, which was seconded by Dr. U.H. Gawande.

The AC approved unanimously the minutes of fourteenth meeting of Academic Council held on 16th January 2016 and Action Taken Report thereof.

Item 15.3. 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 Schemes of examinations and the syllabus was revamped in 2013 and was implemented from the academic session 2014-15. At present, the final year of UG program is undergoing the Autonomous 2010 scheme, whereas the first three years of UG program are under the Autonomous 2014 scheme.

The discussions in the previous Board of Studies meeting were presented by the respective Chairpersons.

The issue of transfer of certain courses from one board of Studies to another was raised during the discussions. After discussions, it was resolved that these issues of transfer of a course from one BoS to another BoS will be decided by the Chairman and Member Secretary of the Academic Council.

Minutes of 15th meeting of Academic Council held on 03 September 2016

The minor correction in the syllabus contents in some courses were proposed by various BoS.

The AC approved changes in courses as suggested by the Board of Studies for 5th to 8th Semester all UG programs.

Item 15.4. To discuss and approve the suggestions of Board of Studies for changes in Schemes of Examination and course contents of Autonomous 2010 scheme for UG programs.

There were no changes in the SoE and Course content of Autonomous 2010 Schemes of UG programs.

Item 15.5. To discuss the changes in the intake of existing programs or starting of new UG / PG programs

The proposal for change in the intakes of current UG PG programs or additions / deletions of any programs was not received from any Board of Studies. Hence there shall be no changes in number of programs or their intake. However, the number of students opting for post graduate programs has dwindled over the years due to various reasons. The members proposed that if there are any suitable changes to be made in the intake and closure of the PG programs or amalgamation of two programs like merging of Shift I and Shift II programs is to be done, the Chairman of AC shall be empowered to take the decision, which will be ratified in subsequent meeting of AC.

The Academic Council authorized the Chairman to decide variation in the intake of the program(s). The decisions shall be put up in subsequent meeting of the Academic Council for ratification.

Item 15.6: To Discuss and finalize the changes, if any, in Academic Regulations.

The grade cut off table for practical courses is not included in the academic regulations. Hence, a following table was proposed to be added to the Academic Regulations:

Grade	Marks	
	From	To
A+	90	100
A	80	89
B+	70	79
B	62	69
C+	58	61
C	54	57
D	50	53
F	0	49

The Academic Council approved the incorporation of the above table in the Academic Regulations and resolved to use it from ESE of Odd Term 2016-17 onwards.

Item 15.7. To discuss and approve the report of Controller of Examinations for Even Term 2015-16 including the list of candidates who have become eligible for award of UG and PG degrees.

The Controller of Examinations (CoE) tabled his report for the Even Term of 2015-16. The members showed the concern at the less number of clear pass students in first year B.E. They also suggested that tabular data may be made more self-explanatory by adding few columns. They felt that special efforts are needed to teach the weak students so that the result shows upward improvements in future. The CoE also tabled the list of students who have become eligible for award of UG and PG degrees in the Even and Summer Term of 2015-16.

The list of eligible candidates and the report of CoE was also put on table for approval.

The Academic Council approved the list of students who have become eligible for award of B.E. and M. Tech. Degree and the report of Controller of Examinations.

Item 15.8: To discuss and approve the changes, if any, in Examination Manual.

There are no changes proposed in the Examination Manual.

Item 15.9. To discuss and approve the report of Dean (Academic Matters) for Even Term 2015-16.

The report of academic activities during the Even Term of 2015-16 was submitted by the Dean Academic Matters.

The report of the Dean (Academic Matters) for the even Term of 2015-16 was approved by the Academic Council.

Item 15.10: To discuss and approve the report of Research Centre Activities for Even Term 2015-16

The report for the Even Term of 2015-16 was presented to the Council By Director (Research). The members appreciated the number of research proposals submitted by the college.

The report of Research Centre Activities for Even Term 2015-16 was approved by the Academic Council.

Item 15.11: Any other point with the permission of the Chair

15.11.1 Full Time PhD Students

Dr. Shiv Prakash proposed that the institution should start admitting full time students for PhD degree program. It was explained that the said program is under the RTM Nagpur university regulations. However, the feasibility of admitting full time students with good stipend from research grants/internal funds of the institution could be considered in future.

The feasibility of the proposal will be studied in details by Director R&D, and will submit his report in the next meeting of the Academic Council.

15.11.2 Teachers Recognitions and Achievements

Dr. M.D. Choudhary opined that the achievement of faculty in academic as well as in other fields should be part of Dean's Report. He also suggested that the report on placement activities of the institution must be a part of Dean's Report

The suggestion was welcomed and accepted by all the members.

The Dean's Report will include the achievement of the faculty in academic and other areas.

15.11.3 Sponsored Research Projects

Dr. M.D. Choudhary suggested that the institution should look for projects sponsored by the industry. It will help increase the interaction between the institution and industry as well exposure to students and faculty.

The Director Research explained the various factors involved in sponsored projects and he assured that more efforts will be taken to identify such projects.

The Director R&D will submit a report on various aspects of sponsored projects like industries and their domains and possible linkages for sponsored research projects.

The Academic Council directed Director R&D to look for sponsored research projects.

15.11.4 Best Teacher Award

Dr. M.D. Choudhary suggested that the Best Teacher award will serve as motivation to faculty.

The Academic Council requested the Principal to study the proposal and look for its feasibility and implementation.

15.11.4 Second Graduation Ceremony

Dean- Academic Matters informed the house that the Second Graduation Ceremony was held on 25th June 2016. The Graduation Address was delivered by the Chief Guest, Hon'ble Shri Hansrajji Ahir, Union Minister of State for Chemicals and Fertilizers, Govt. of India, New Delhi. The other Guests at the function were Hon'ble Dr. S.P. Kane, Vice Chancellor and Dr. D.K. Agrawal, Director, Board of College and University Development, Dr. M.D. Choudhary, Chief Coordinator of Faculty of Engineering and Technology of Rashtrasant Tukadoji Maharaj Nagpur University. Hon'ble Shri. Dattaji Meghe, Chairman, Board of Management, YCCE, Nagpur, presided over the function.

The Chairman invited the nominations of respectable persons to be invited to the Third Graduation Ceremony, for delivering the Graduation Address, to be held in December 2016.

The Academic Council appreciated and thanked the dignitaries for the visit to institution and expressed similar cooperation for Third Graduation Ceremony.

15.11.5 Academic Calendar for Even and Summer Term of 2016-17

The draft of Academic Calendar for the Even term of 2016-17 was placed on the table by Dean Academic Matters. The issue was discussed.

The AC directed the Member Secretary to finalize the Academic Calendar by considering views of other functional heads.

15.11.6 Electronic Question Banks

The Council was apprised of the preparation of Electronic Question Banks for the courses of the First Year B.E. The members were

Minutes of 15th meeting of Academic Council held on 03 September 2016

told that the question papers for First Year BE will be prepared from this bank. As the QB is validated by external as well as internal experts, the question papers will be more balanced. The DAM informed that the similar question Banks will be prepared for the courses of higher semesters in the current academic session.

The AC appreciated the efforts and directed that the deadlines for completion of work be followed.

15.11.7 Accreditation Visits

The Chairman informed that the Peer team from NAAC visited the campus 25-27 August 2016. The institution expects the result of this visit in around three months from visit. He also informed that the experts team from NBA is expected to visit YCCE for NBA accreditation of UG as well PG programs. The tentative dates are in October 2016.

The members of Academic Council expressed their best wishes to oncoming NBA visit.

15.11.8 Feedback of stake holder


The process for inclusion of feedback process from stake holder for curriculum development was placed on the table by Dean Academic Matters. The issue was discussed.

The members of Academic Council approved the feedback process from stake holder for curriculum development.

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

The meeting concluded with thanks to the Chair.

Date: 03.10.2016


(S.D. BHOLE)
Member Secretary

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING

Hingna Road, Wanadongri, Nagpur-411 110.

Academic Council 2016-18

16th Meeting 25th Feb. 2017

SN	MEMBERS	Affiliation	Signature
1	Dr. U.P. Waghe	Professor in Civil Engg, YCCE, Nagpur, and Principal	
2	Dr. M.D. Choudhari	Professor in Chemistry, BD College of Engineering, Sevagram Dist Wardha	
3	Dr. V.H. Tatwawadi	Principal, DBA College of Engg., Wanadongri, Nagpur	
4	Dr. G.H. Agrawal	Professor and Head, Dept. of Electrical Engg, KDK College of Engg, Nagpur	
5	Prof. Dr. N.C. Siva Prakash, Professor, IISc, Bangalore	Department of Instrumentation and Applied Physics, Indian Institute of Science, Bangalore 560 012	
6	Mr. Sunil C. Panchbhai	Dy. General Manager, Team Head-Development, LG Electronics India Pvt Ltd., Plot No. A-5,MIDC,Ranjangaon, Tal.Shirur, Pune- 412209	
7	Mr. Rajendra Jodhpurkar	Delivery Head, Life Science & Healthcare, Persistent Systems, Software Technology Park, Near VNIT, Nagpur 440022	LOA
8	Mr. Chandrashekhar Joshi	Head, Competency Unit - MIS, FUJITSU CONSULTING INDIA, A-15 MIDC Technology Park Talawade Pune 412114	
9	Dr. Sudhir V. Ambekar	Head, Dept of Civil Engg, YCCE, Nagpur	
10	Dr. Sharad S. Chaudhary	Head, Dept of Mech Engg, YCCE, Nagpur	
11	Dr. R.M. Moharil	Head, Dept of Electrical Engg, YCCE, Nagpur	
12	Dr. Mrs. S. V. Rathkanthiwar	Head, Dept of Electronics Engg, YCCE, Nagpur	
13	Dr. Prasanna L. Zade	Head, Dept of Electronics and Telecom, YCCE, Nagpur	
14	Dr. Mrs. Kavita R. Singh	Head, Dept of Computer Tech, YCCE, Nagpur	1st sign 25/02/2017
15	Dr. Ms. Ujwalla H. Gawande	Head, Dept of Information Tech, YCCE, Nagpur	25/2/17
16	Dr. Mrs. Manjusha P. Gandhi	Head, Dept. of Mathematics and Humanities, YCCE, Nagpur	25/2/17
17	Dr. Mrs. S. A. Fadnavis	Head, Physics, YCCE, Nagpur	25/2/17
18	Dr. Mrs. Jyoti V. Miskin	Head, Dept of Chemistry, YCCE, Nagpur	LOA
19	Dr. P.K. Dakhole	Professor in Electronics Engg, YCCE, Nagpur, and Registrar	
20	Dr. P.T. Karule	Professor in Electronics Engg, YCCE, Nagpur, and Controller of Examinations	
21	Dr. K.K. Bhojar	Professor in Information Technology, YCCE, Nagpur, and Chairman of Result Review & Moderation Committee	
22	Dr. A.V. Patil	Professor in Civil Engg, YCCE, Nagpur, and Chairman of Self Assessment of Autonomy	
23	Prof. Aniket P. Munshi	A.P. in Electrical Engg, YCCE, Nagpur	
24	Dr. S.D. Bhole, Dean (Academic Matters)	Asso. Professor in Civil Engg, YCCE, Nagpur, and Dean Academic Matters	



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Minutes of 16th meeting of Academic Council held on 25 February 2017

The **Sixteenth meeting** of Academic Council was held on **25th February 2017** at 10.30 am in the Board Room of YCCE, Nagpur. The following members attended the 16th meeting of the Academic Council.

1	Dr. U.P. Waghe, Principal & Chairman, AC	12	Dr. P.L. Zade, HoD, Electronics & Tele Engg
2	Dr. M.D. Choudhari, Chief Coordinator, Faculty of Engg and Tech., RTM Nagpur University (V.C.'s Nominee)	13	Dr. Mrs. Kavita R. Singh, HoD Comp. Tech.
3	Dr. V.H. Tatwawadi, Principal, DBA CoER, Nagpur (VC's Nominee)	14	Dr. Ms. Ujwala Gawande, HoD, Information Tech.
4	Dr. G.H. Agrawal, KDK College of Engg, Nagpur (VC's Nominee)	15	Dr. Mrs. Manjusha P. Gandhi, HoD Mathematics
5	Dr. N.C. Shivprakash, I,I,Sc., Bangalore	16	Dr. Mrs. S.A. Fadnavis, HoD, Physics
6	Mr. Sunil C. Panchbhai, LG Electronics, Pune		Dr. P.K. Dakhole, Registrar
7	Mr. Chandrashekhar Joshi, Fujitsu Consulting India, Pune	17	Dr. P.T. Karule, COE
8	Dr. Sudhir V. Ambekar, HoD, Civil Engg.	18	Dr. K.K. Bhojar, Professor, Information Tech, YCCE
9	Dr. Sharad S. Chaudhary, HoD, Mechanical Engg.	19	Dr. A.V. Patil, Professor, Civil Engg., YCCE
10	Prof. Bhushan Y. Bagde, HoD, Electrical Engg.	20	Prof. Aniket P. Munshi, Electrical Engg., YCCE
11	Dr. Mrs. S.V. Rathkanthiwar, HoD Electronics Engg	21	Prof. S.D. Bhole, Dean (Acad. Mat.) & Member Secretary

Leave of Absence granted to			
1	Mr. Rajendra Jodhpurkar, Persistent Systems, STP, Nagpur.	2	Dr. Mrs. Jyoti V. Miskin, HoD, Chem.



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Item 16.1 Welcome of new members

The Chairman of the Academic Council, Dr. U.P. Waghe welcomed the members of the Academic Council with floral bouquet. The members introduced themselves with a brief about organization of their affiliation.

Item 16.2 To confirm the Minutes of 15th Meeting of the Academic Council and consider the action taken report.

The AC approved unanimously the minutes of Fifteenth meeting of Academic Council held on 03 September 2016 and Action Taken Report thereof.

Item 16.3 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.

Part A: The minor changes proposed by various boards regarding the syllabi of the courses of "Autonomous 2014" scheme are shown in the following table.

BoS	Course Code & Name
General Engineering	Nil
Civil	CV1210 Surveying-I
	CV1214 Building Construction and Building Drawing
	CV1301 Surveying -II
	CV1329 OE I : Construction Techniques
	CV1331 Reinforced Concrete Structures
	CV1310 Fluid Mechanics -II
	CV1332 Steel Structures
	CV1342 OE II: Air Pollution and Solid Waste Management
	CV1402 Structural Analysis-II
	CV1422 Transportation Engineering -II



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BoS	Course Code & Name
Civil	CV1441 Environmental Engineering II
	CV1411 PE II: Advanced Hydraulics
	CV1428 PE IV: Earthquake Engineering
	CV1429 PE IV: Matrix Analysis of Structures
	CV1903 Structural Dynamics
	CV1907 Design of Substructures
	CV1913 Earthquake and wind effects on Structures
	CV1917 PE-II Advanced Steel Structures
	CV1919 PE-II Smart Structures and Applications
	CV1923 PE-III Tall Building
	CV1925 PE-III Bridge Engineering
	CV1926 PE-IV Plastic Analysis and Design of Structures
	CV1927 PE-IV Seismic Analysis and Design of Structures
	CV1961 Industrial Waste Water Treatment and Disposal
	CV1964 Municipal Solid Waste Management
	CV1972 PE-II Rural Water Supply and Sanitation
	CV1973 PE-III Applied Structures
	CV1972 PE-II Rural Water Supply and Sanitation
	CV1206 Lab: Fluid Mechanics-I
	CV1211 Lab: Surveying-I
	CV1215 Lab: Computer Aided Building Drawing
	CV1308 Lab: Structural Analysis-I
	CV1906 Lab: Matrix Analysis of Structures
CV1908 Research Practice	
CV1922 Seminar	
CV1929 Project Phase-I	
CV1931 Project Phase- II	
Mechanical	Nil
Electrical	EL1203:Electrical Machines I
	EL1321:Testing and Maintenance of Electrical Machines,
	EL1302:Power Electronics,
	EL1301:Electrical Power System I
	EL1320:OE1:Electrical Machines and their applications
	EL1422:Power System Operation and Their Control
	EL1922:Restructuring of Power System



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BoS	Course Code & Name
	EL1933:Power System Stability
Electronics	EE1203-Digital Circuits
	EE1416-Biomedical Instrumentation & Its Application
	EE1905-Advanced Communication
	EE1951 VLSI Signal Procession
Electronics & Telecommunication	ET1401-RF and Microwave
Computer Technology	CSE 1902 Real Time Systems
	CSE1915 Software Architecture
	CSE 1919 Data Warehousing
	CSE 1920 Wireless Sensor Network
	CSE 1923 Computer Vision
	CSE 1924 Natural Language Processing
Information Technology	IT1322 Web Technology
	IT1336 Introduction to E-Commerce
	IT1403 Principle of Compiler Design
	IT1415 Neural Network and Fuzzy Logic
	IT1206 Microprocessor Based System Design
	IT1303 Operating Systems
	IT1307 Computer Graphics
	IT1311 Artificial Intelligence
	IT1210 Lab: Computer Workshop
	IT1203 Lab: Object Oriented Programming
	IT1304 Lab: Operating Systems
	IT11317 Lab: Data Base Management Systems
	IT1101: Introduction to computer Programming
	IT1210 Lab: Computer Workshop



The changes in the text / reference books suggested by the BoS as below

BRANCH	Course Code & Name
CV	CV1301 Surveying -II
	CV1331 Reinforced Concrete Structures
	CV1342 OE II: Air Pollution and Solid Waste Management
	CV1422 Transportation Engineering –II
	CV1428 PE IV: Earthquake Engineering
	CV1429 PE IV: Matrix Analysis of Structures
	CV1919 PE-II Smart Structures and Applications
	CV1923 PE-III Tall Building
	CV1925 PE-III Bridge Engineering
	CV1927 PE-IV Seismic Analysis and Design of Structures
ME	Nil
EL	EL1416: Switchgear and Protection
	EL1309: Electrical Drives
	EL1432: Electrical Distribution Power System
EE	Nil
ET	Nil
CT	CT1205 Programming Language Concepts & Constructs
	CT1208 System Programming
IT	IT1101 Introduction to Computer Programming

Part B: Proposed New Courses:

The BoS in Computer Technology has proposed the following new courses.

Proposed Syllabus for Professional Electives

1. Cyber Forensics
2. Machine Learning
3. Probabilistic and Statistical Analytics

Industry aligned electives in VI semester (Pure Lab Course)

1. Open Source Lab (with TCS)



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2. MOS Lab (with Global Logic)

3. IGIS (with 6Simplex Software Solution)

The BoS is working in close coordination with the industry for framing the syllabi and deliverables.

Part C: Reorganization of the Scheme of Examination:

Looking at the opportunities of training of students in the reputed IT sector companies, the BoS of information Technology has proposed the reorganization of the Scheme of Examination for Final Year.

The salient points of the scheme are:

- ≠ The batch of Final Year BE in Information Technology shall be divided into two groups called A and B.
- ≠ 7th Semester BE shall be offered in the Summer term after conclusion of 6th Sem BE. This will be attended by both the groups A and B.
- ≠ 8th Semester BE for Group A will go to industry for one semester long project work in Odd Term. During Even Term, they will undergo the classroom courses.
- ≠ 8th Semester BE Group B will undergo the classroom courses during Odd Term and shall go to industry for one semester long project work.
- ≠ The project will be jointly monitored by the Industry as well institution
- ≠ The credits for award of degree remain same as approved by the Academic Council and Board of Management in previous meeting.

Part D: Evaluation of Lab courses

The matter was discussed in various BoS in last and well their previous meetings. The present evaluation weightages are 40 % and 60% for In Sem and End Sem respectively. All BoS are unanimous in changing the pattern to higher weightage for In Sem Evaluation, almost upto 100%. The matter was discussed with the pro and cons of the changes. The Academic Council directed to test the internal evaluation in some lab courses and report the findings to AC after declaration of result. It also mandated the Chairman and Member Secretary of AC to decide the lab courses of First Year BE in which the evaluation will be done internally fully. The change in SoE on account of this will be accepted by the AC.



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Part E: Electronic Question Banks

The Electronic question banks (EQB) for all courses of First Year BE are complete and are being used for setting of question papers. EQBs for higher semesters are under preparation. It was proposed to prepare solution for all questions included in EQB. All the BoS discussed this matter in details and opined that the EQB should not made mandatory for paper setting. Similarly they opined that preparing solutions to EQB is bad idea. The compulsion to include the questions from EQB takes away the freedom and creativity of the paper setter, they further opined.

The Academic Council also discussed the matter and decided to incorporate the flexibility to paper setters. It agreed that EQB is a good initiative and should be continued. The quality of questions, its text and figures are assured in EQB. The ESE question paper will be set by using the questions from the EQB as well as the questions of the setter in the ration of 60 and 40 percent respectively.

The AC approved changes in syllabi as well changes in the text/reference books for the courses mentioned above. These changes will be incorporated with immediate effect.

The AC noted the proposals of new courses to be offered with active participation of industry in Computer Technology, and exhorted other BoS to look for such courses with inputs from Industry.

The AC has also approved the reorganized scheme for BE in Information Technology.

The Academic Council directed to test the internal evaluation in some lab courses and report the findings to AC after declaration of result. It also mandated the Chairman and Member Secretary of AC to decide the lab courses of First Year BE in which the evaluation will be done internally fully. The change in SoE on account of this will be accepted by the AC.

The AC resolved that Electronic Question Banks will be prepared for all courses of UG programs except professional and open electives. They will be used for setting the question papers of ESE such that a minimum 60% questions will be set by using the question banks and a maximum of 40 % questions shall be set



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E-mail : principal@ycce.edu, info@ycce.edu

by setter from other sources. After the conduct of examination, the questions from outside the EQB will be incorporated in the EQB for further use.

Item 16.4 To discuss the changes in the intake of existing programs or starting of new UG/ PG programs

No such proposal received from any BoS. However, the members discussed the current scenario in engineering education and opined that a variation in intake could have to be compulsorily taken in some circumstances.

The Academic Council authorized the Chairman to decide variation in the intake or closure of the program(s). The decisions shall be put up in subsequent meeting of the Academic Council for ratification.

Item 16.5 To discuss and finalize the changes, if any, in Academic Regulations.

The discussion in the BoS of Electronics Engineering was put before the members of the council.

- ≠ The BoS opined that the minimum passing cut off for PG programs in 50% given in AR 19.2.4 may be difficult for slow learners.
- ≠ It further opined that the term 'Course completion report' mentioned in AR 33 should be used in place of 'Provisional Certificate'.

The proposals were discussed by the Council Members in the light of provisions of RTMNU and other universities and rejected the them.

Both the proposals were rejected by the Academic Council; hence there shall be no modification to Academic Regulations.



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Item 16.6 To discuss and approve the report of Controller of Examinations for Odd Term 2016-17 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 items in the report, mainly the results. The report was accepted by the Council.

The Academic Council approved the list of students who have become eligible for award of B.E. and M. Tech. Degree and the report of Controller of Examinations for the Odd Term of 2016-17.

Item 16.7 To discuss and approve the changes, if any, in Examination Manual

There are no changes proposed in the Examination Manual.

Item 16.8 To discuss and approve the report of Dean (Academic Matters) for Even Term 2015-16.

The report of the Dean (Academic Matters) was put before the members. The report was accepted. However, members suggested few more items to be included in the report. These are professional activities of students, Students' Welfare Programs, NCC, NSS and other social activities and books published by the faculty.

The report of the Dean (Academic Matters) for the Odd Term of 2016-17 was approved by the Academic Council. The additional items as suggested by the members will be included in the report from next time onwards.

Item 16.9 To discuss and approve the report of Research Centre Activities for Odd Term 2016-17



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The report of the Research Centre Activities was put before the members. The report was accepted. The members suggested that numbers research scholars who are faculty of YCCE be shown clearly.

The report Research Centre Activities for Odd Term 2015-16 was approved by the Academic Council.

Item 16.10 To discuss the approve the report of the Training and Placement Officer for Odd Term 2016-17

The report of the Training and Placement Officer was put before the members. They suggested changes to be incorporated henceforth, which were noted and will be complied. The members opined that more employers from core industries be invited. The report was accepted.

The report of Training and Placement Officer for Odd Term 2015-16 was approved by the Academic Council.

Item 16.11 Any other matter with the permission of the Chair

Dr. M.D. Choudhary suggested the enhanced use of NPTEL materials as well as MOOCs offered by various universities/ organizations.

Mr. Sunil C. Panchbhai, LG Electronics, Pune suggested the inclusion of best practices and their impacts. He also suggested carrying out the gap analysis between the curriculum and industry requirements and providing bridge courses. He also proposed the promotion of cross learning for students in association with the industry. He suggested the poster sessions from students on topics of current interests.



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Mr. Chandrashekhar Joshi, Fujitsu Consulting India, Pune suggested the role play as a teaching tool. He also suggested creating the laboratories suggested and driven by students. He also wished more training to students. He also suggested the industry exposure to students through site visits and tours. He also suggested a weekly hour session for giving a challenging task to students of all branches.

D-AM, YCCE requested the members to help prepare the questionnaire for indirect assessment of attainments. He also requested the members to suggest ways and means to incorporate the MOOCs as credit course

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

The meeting concluded with thanks to the Chair.

Date: 04.03.2017

(S.D. BHOLE)
Member Secretary

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING

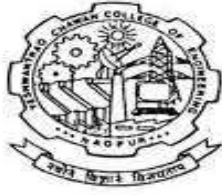
Hingna Road, Wanadongri, Nagpur-411 110.

Academic Council 2016-18

16th Meeting 25th Feb. 2017

SN	MEMBERS	Affiliation	Signature
1	Dr. U.P. Waghe	Professor in Civil Engg, YCCE, Nagpur, and Principal	
2	Dr. M.D. Choudhari	Professor in Chemistry, BD College of Engineering, Sevagram Dist Wardha	
3	Dr. V.H. Tatwawadi	Principal, DBA College of Engg., Wanadongri, Nagpur	
4	Dr. G.H. Agrawal	Professor and Head, Dept. of Electrical Engg, KDK College of Engg, Nagpur	
5	Prof. Dr. N.C. Siva Prakash, Professor, IISc, Bangalore	Department of Instrumentation and Applied Physics, Indian Institute of Science, Bangalore 560 012	
6	Mr. Sunil C. Panchbhai	Dy. General Manager, Team Head-Development, LG Electronics India Pvt Ltd., Plot No. A-5,MIDC,Ranjangaon, Tal.Shirur, Pune- 412209	
7	Mr. Rajendra Jodhpurkar	Delivery Head, Life Science & Healthcare, Persistent Systems, Software Technology Park, Near VNIT, Nagpur 440022	LOA
8	Mr. Chandrashekhar Joshi	Head, Competency Unit - MIS, FUJITSU CONSULTING INDIA, A-15 MIDC Technology Park Talawade Pune 412114	
9	Dr. Sudhir V. Ambekar	Head, Dept of Civil Engg, YCCE, Nagpur	
10	Dr. Sharad S. Chaudhary	Head, Dept of Mech Engg, YCCE, Nagpur	
11	Dr. R.M. Moharil	Head, Dept of Electrical Engg, YCCE, Nagpur	
12	Dr. Mrs. S. V. Rathkanthiwar	Head, Dept of Electronics Engg, YCCE, Nagpur	
13	Dr. Prasanna L. Zade	Head, Dept of Electronics and Telecom, YCCE, Nagpur	
14	Dr. Mrs. Kavita R. Singh	Head, Dept of Computer Tech, YCCE, Nagpur	1st sign 25/02/2017
15	Dr. Ms. Ujwalla H. Gawande	Head, Dept of Information Tech, YCCE, Nagpur	25/2/17
16	Dr. Mrs. Manjusha P. Gandhi	Head, Dept. of Mathematics and Humanities, YCCE, Nagpur	25/2/17
17	Dr. Mrs. S. A. Fadnavis	Head, Physics, YCCE, Nagpur	25/2/17
18	Dr. Mrs. Jyoti V. Miskin	Head, Dept of Chemistry, YCCE, Nagpur	LOA
19	Dr. P.K. Dakhole	Professor in Electronics Engg, YCCE, Nagpur, and Registrar	
20	Dr. P.T. Karule	Professor in Electronics Engg, YCCE, Nagpur, and Controller of Examinations	
21	Dr. K.K. Bhojar	Professor in Information Technology, YCCE, Nagpur, and Chairman of Result Review & Moderation Committee	
22	Dr. A.V. Patil	Professor in Civil Engg, YCCE, Nagpur, and Chairman of Self Assessment of Autonomy	
23	Prof. Aniket P. Munshi	A.P. in Electrical Engg, YCCE, Nagpur	
24	Dr. S.D. Bhole, Dean (Academic Matters)	Asso. Professor in Civil Engg, YCCE, Nagpur, and Dean Academic Matters	

**Highlighted SoE of Choice Based Credit
System (CBCS)/elective course**



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B.E. SCHEME OF EXAMINATION 2014

Civil Engineering

Sl. No.	Course Code	Course Title	Contact Hours				Credits	% Weightage				ESE Duration Hrs.
			L	T	P	Total Contact Hours		MSE-I	MSE-II	TA	ESE	
THIRD SEMESTER												
1	GE1201	Engineering Mathematics-III	3	1	0	4	4	15	15	10	60	3
2	GE1202	Engineering Geology	4	0	0	4	4	15	15	10	60	3
3	GE1203	Lab: Engineering Geology	0	0	2	2	1	40			60	
4	CV1201	Strength of Materials	3	1	0	4	4	15	15	10	60	3
5	CV1202	Lab: Strength of Materials	0	0	2	2	1	40			60	
6	CV1203	Geotechnical Engineering-I	3	1	0	4	4	15	15	10	60	3
7	CV1204	Lab: Geotechnical Engineering-I	0	0	2	2	1	40			60	
8	CV1205	Fluid Mechanics-I	3	1	0	4	4	15	15	10	60	3
9	CV1206	Lab: Fluid Mechanics-I	0	0	2	2	1	40			60	
Total			16	4	8	28	24					

FOURTH SEMESTER

1	GE1204	Advanced Mathematical Techniques	4	0	0	4	4	15	15	10	60	3
2	CV1208	Concrete Technology	4	0	0	4	4	15	15	10	60	3
3	CV1209	Lab: Concrete Technology	0	0	2	2	1	40			60	
4	CV1210	Surveying-I	3	1	0	4	4	15	15	10	60	3
5	CV1211	Lab: Surveying-I	0	0	2	2	1	40			60	
6	CV1212	Environmental Engineering-I	3	1	0	4	4	15	15	10	60	3
7	CV1213	Lab: Environmental Engineering-I	0	0	2	2	1	40			60	
8	CV1214	Building Construction and Building Drawing	4	0	0	4	4	15	15	10	60	4
9	CV1215	Lab: Computer Aided Building Drawing	0	0	2	2	1	40			60	
10	CV1216	Engineering Hydrology	4	0	0	4	4	15	15	10	60	3
Total			22	2	8	32	28					
 Chairperson		 Dean (Acad. Matters)		1.00		May 2015		Applicable for AY 2015-16 Onwards				
				Version		Date of Release						



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B.E. SCHEME OF EXAMINATION 2014
Civil Engineering

Sno	Sub Code	Subject	Contact Hours				Credits	% Weightage				ESE Duration Hrs.
			L	T	P	Total		MSE-I	MSE-II	TA	ESE	
FIFTH SEMESTER												
1	GE1311	Fundamental of Management	3	0	0	3	3	15	15	10	60	3
2	CV1301	Surveying -II	4	0	0	4	4	15	15	10	60	3
3	CV1302	Lab: Surveying -II	0	0	2	2	1			40	60	
4	CV1307	Structural Analysis-I	3	1	0	4	4	15	15	10	60	3
5	CV1308	Lab: Structural Analysis-I	0	0	2	2	1			40	60	
6	CV1304	Transportation Engineering -I	4	0	0	4	4	15	15	10	60	3
7	CV1305	Lab: Transportation Engineering -I	0	0	2	2	1			40	60	
Open Elective I												
8	CV1325	OE I: Environmental Management	3	0	0	3	3	15	15	10	60	3
	CV1327	OE I: Building Services Engineering										
	CV1329	OE I: Construction Techniques										
	CV1330	OE I: Transportation Engineering Basic										
9	CV1331	Reinforced Concrete Structures	3	1	0	4	4	15	15	10	60	4
Total			20	2	6	28	25					

SIXTH SEMESTER												
1	GE1312	Fundamental of Economics	3	0	0	3	3	15	15	10	60	3
2	CV1310	Fluid Mechanics -II	3	1	0	4	4	15	15	10	60	3
3	CV1311	Lab: Fluid Mechanics -II	0	0	2	2	1			40	60	--
4	CV1332	Steel Structures	3	1	0	4	4	15	15	10	60	4
5	CV1333	Geotechnical Engineering II	4	0	0	4	4	15	15	10	60	3
Professional Elective I												
6	CV1315	PE I: Water Treatment	3	0	0	3	3	15	15	10	60	3
	CV1316	PE I: Prestressed Concrete										
	CV1317	PE I: Building Services										
	CV1323	PE I: Pavement Design										
	CV1324	PE I: Geotechnical Investigation & Ground Improvement Techniques										
	CV1325	PE I: Project Planning & Management										
Open Elective II												
7	CV1341	OE II: Elements of Earthquake Engineering	3	0	0	3	3	15	15	10	60	3
	CV1342	OE II: Air Pollution and Solid Waste Management										
	CV1343	OE II: Introduction to Finite Element Method										
	CV1344	OE II: Disaster Management										
	CV1345	OE II: Environmental Impact Assessment										
8	CV1314	Seminar	0	0	2	2	1			100	--	
Total			19	2	4	25	23					

Chairperson		Version	1.00	Applicable for AY 2016-17 Onwards
Dean (Acad. Matters)		Date of Release	May 2016	



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B.E. SCHEME OF EXAMINATION 2014
Civil Engineering

Sno	Sub Code	Subject	Contact Hours				Credits	% Weightage				ESE Duration Hrs.
			L	T	P	Total		MSE-I	MSE-II	TA	ESE	
SEVENTH SEMESTER												
1	CV1401	Water Resource Engineering	3	1	0	4	4	15	15	10	60	3
2	CV1402	Structural Analysis-II	3	1	0	4	4	15	15	10	60	3
3	CV1403	Lab: Structural Analysis-II	0	0	2	2	1			40	60	--
4	CV1422	Transportation Engineering -II	4	0	0	4	4	15	15	10	60	3
5	CV1441	Environmental Engineering -II	4	0	0	4	4	15	15	10	60	3
6	CV1442	Lab : Computer Applications in Civil Engineering	0	0	2	2	1			40	60	--
Professional Elective II												
7	CV1410	PE II: Traffic Engineering										
	CV1411	PE II: Advanced Hydraulics										
	CV1413	PE II: Natural Resources Management	3	0	0	3	3	15	15	10	60	3
	CV1443	PE II: Optimization Techniques										
	CV1444	PE II: Structural Dynamics										
	CV1445	PE II: Soil Dynamics										
	CV1459	PE II: Computer Applications in Civil Engineering										
	CV1406	Industrial Training/ CRT	0	0	0	0	2			100		
8	CV1407	Project- Phase I	0	0	4	4	4			40	60	--
Total			17	2	8	27	27					

EIGHTH SEMESTER												
1	CV1421	Estimating & Costing	3	1	0	4	4	15	15	10	60	4
Professional Elective III												
2	CV1446	PE III: New Engineering Materials										
	CV1447	PE III: Advanced RCC										
	CV1448	PE III: Remote Sensing and GIS	3	0	0	3	3	15	15	10	60	3
	CV1449	PE III: Earth and Earth Retaining Structures										
	CV1450	PE III: Watershed Management										
	CV1451	PE III: Urban Transportation Planning										
Professional Elective IV												
3	CV1427	PE IV: Wastewater Treatment										
	CV1428	PE IV: Earthquake Engineering										
	CV1429	PE IV: Matrix Analysis of Structures	3	0	0	3	3	15	15	10	60	3
	CV1452	PE IV: Advanced Surveying										
	CV1453	PE IV: Foundation Engineering										
	CV1454	PE IV: Water Power Engineering										
Professional Elective V												
4	CV1432	PE V: Water Transmission and Distribution Systems										
	CV1433	PE V: Advanced Steel Design										
	CV1434	PE V: Maintenance and Rehabilitation Engineering	3	0	0	3	3	15	15	10	60	3
	CV1455	PE V: Finite Element Method										
	CV1456	PE V: Advanced Geotechnical Engineering										
	CV1457	PE V: Design of Bridge Structures										
	CV1458	PE V: Advanced Foundation Engineering										
5	CV1424	Comprehensive Viva-voce	0	0	0	0	3				100	
6	CV1425	Project- Phase II	0	0	8	8	8			40	60	
7	CV1426	Extra / Co-curricular / Competitive Examination	0	0	0	0	2			100		
Total			12	1	8	21	26					

Add. Sub : 7-CV1459 PE: CAICE

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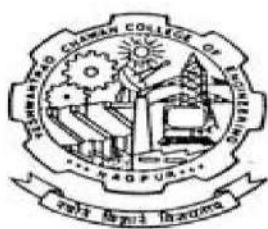
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B.E. SCHEME OF EXAMINATION 2014

Mechanical Engineering

Sl. No.	Course Code	Course Title	Contact Hours				Credits	% Weightage				ESE Duration Hrs.
			L	T	P	Total Contact Hours		MSE-I	MSE-II	TA	ESE	
THIRD SEMESTER												
1	GE1201	Engineering Mathematics - III	3	1	0	4	4	15	15	10	60	3
2	ME1201	Material Science & Metallurgy		0	0	0	3	15	15	10	60	3
3	ME1202	Lab: Material Science & Metallurgy	0	0	2	2	1	40		60		
4	ME1203	Mechanics of Materials	3	0	0	3	3	15	15	10	60	3
5	ME1204	Lab: Mechanics of Materials	0	0	2	2	1	40		60		
6	ME1205	Fluid Mechanics	4	0	0	4	4	15	15	10	60	3
7	ME1206	Kinematics of Machinery	3	1	0	4	4	15	15	10	60	3
8	ME1207	Manufacturing Processes-I	3	0	0	3	3	15	15	10	60	3
9	ME1208	Lab: Manufacturing Processes-I	0	0	2	2	1	40		60		
Total			16	2	6	24	24					
FOURTH SEMESTER												
1	GE1204	Advanced Mathematical Techniques	3	1	0	4	4	15	15	10	60	3
2	ME1210	Mechanical Measurement	3	0	0	3	3	15	15	10	60	3
3	ME1211	Lab: Mechanical Measurement	0	0	2	2	1	40		60		
4	ME1212	Engineering Thermodynamics	4	0	0	4	4	15	15	10	60	3
5	ME1213	Design of Machine Elements	4	0	0	4	4	15	15	10	60	3
6	ME1215	Hydraulic Machines	3	1	0	4	4	15	15	10	60	3
7	ME1216	Lab: Hydraulic Machines	0	0	2	2	1	40		60		
8	ME1217	Manufacturing Processes - II	3	0	0	3	3	15	15	10	60	3
9	ME1218	Lab: Manufacturing Processes - II	0	0	2	2	1	40		60		
Total			20	2	6	28	25					
Chairperson	 Dean (Acad. Matters)		1.00		May 2015			Applicable for AY 2015-16 Onwards				
			Version		Date of Release							



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B.E. SCHEME OF EXAMINATION 2014

Mechanical Engineering

Sl.No.	Sub Code	Subject	CONTACT HOURS				Credits	% Weightage				ESE Duration
			L	T	P	Total		MSE- I	MSE- II	TA	ESE	
FIFTH SEMESTER												
1	GE1311	Fundamental of Management	3	0	0	3	3	15	15	10	60	3 Hours
2	ME1301	Metrology & Quality Control	3	0	0	3	3	15	15	10	60	3 Hours
3	ME1302	Lab.: Metrology & Quality Control	0	0	2	2	1			40	60	
4	ME1303	Heat Transfer	4	0	0	4	4	15	15	10	60	3 Hours
5	ME1304	Lab. : Heat Transfer	0	0	2	2	1			40	60	
6	ME1307	Applied Thermodynamics	4	0	0	4	4	15	15	10	60	3 Hours
7	ME1323	Dynamics Of Machinery	3	0	0	3	3	15	15	10	60	3 Hours
8	ME1324	Lab. : Dynamics Of Machinery	0	0	2	2	1			40	60	
9	Open Elective-I		3	0	0	3	3	15	15	10	60	3 Hours
	ME1315	OE-I:Operations Research Techniques										
	ME1317	OE-I:Automobile Engineering										
	ME1321	OE-II:Plastic Engineering										
10	ME1334	Industrial Visit	0	0	1	1	1			100		
Total			20	0	7	27	24					

SIXTH SEMESTER												
1	GE1312	Fundamental of Economics	3	0	0	3	3	15	15	10	60	3 Hours
2	ME1308	Lab. : Machine Drawing	0	0	4	4	2			40	60	
3	ME1310	Energy Conversion	4	0	0	4	4	15	15	10	60	3 Hours
4	ME1311	Lab.: Energy Conversion	0	0	2	2	1			40	60	
5	ME1312	Computer Aided Design	3	1	0	4	4	15	15	10	60	3 Hours
6	ME1313	Lab.: Computer Aided Design	0	0	2	2	1			40	60	
7	ME1320	Control System Engineering	3	1	0	4	4	15	15	10	60	3 Hours
8	Open Elective-II		3	0	0	3	3	15	15	10	60	3 Hours
	ME1331	OE-II:Total Quality Management										
	ME1332	OE-II:Reliability Engineering										
	ME1333	OE-II:Power Generation Engineering										
9	ME1325	Seminar Based On Mini Project	0	0	2	2	1			100		
Total			16	2	10	28	23					

Chairperson	<i>Bharmi</i>	Version	1.00	Applicable for AY 2016-17 Onwards
Dean (Acad. Matters)	<i>Siddh</i>	Date of Release	May 2016	



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B.E. SCHEME OF EXAMINATION 2014

Mechanical Engineering

Sl.No.	Sub Code	Subject	CONTACT HOURS				Credits	% Weightage				ESE Duration
			L	T	P	Total		MSE- I	MSE- II	TA	ESE	
SEVENTH SEMESTER												
1	ME1447	Production Management	3	0	0	3	3	15	15	10	60	3 Hours
2	ME1448	Design Of Mechanical Drives	3	0	0	3	3	15	15	10	60	3 Hours
3	Professional Elective - I		4	0	0	4	4	15	15	10	60	3 Hours
	ME1401	PE-I: Tool Design										
	ME1402	PE-I: Material Handling Systems										
	ME1404	PE-I: Engineering Of Plastics										
	ME1405	PE-I: Project Evaluation & Management										
	ME1449	PE-I: Computational Fluid Dynamics										
	ME1456	PE-I: Advanced Manufacturing Techniques										
	ME1461	PE-I: Rapid Prototyping										
	ME1462	PE-I: Fuel Cells Technology										
ME1463	PE-I: Data Structure and Algorithm											
4	Professional Elective - II		4	0	0	4	4	15	15	10	60	3 Hours
	ME1408	PE-II: Synthesis Of Mechanism										
	ME1409	PE-II: Finance & Cost Management										
	ME1410	PE-II: Renewable Energy System										
	ME1411	PE-II: Artificial Intelligence										
	ME1412	PE-II: Maintenance Management										
	ME1465	PE-II: Energy Management										
	ME1466	PE-II: Design For Manufacturing & Assembly										
	ME1467	PE-II: Quantitative Techniques										
ME1468	PE-II: Database Management System											
5	Professional Elective - III		4	0	0	4	4	15	15	10	60	3 Hours
	ME1406	PE-III: Finite Element Methods										
	ME1417	PE-III: CIM										
	ME1419	PE-III: I.C. Engines										
	ME1421	PE-III: Refrigeration & Air Conditioning										
	ME1445	PE-III: Mechatronics										
	ME1469	PE-III: Refrigeration & Cryogenics										
ME1476	PE-III: Machine Tool Design											
6	Lab.: Professional Elective - III		0	0	2	2	1			40	60	
	ME1407	Lab.: PE-III: Finite Element Methods										
	ME1418	Lab.: PE-III: CIM										
	ME1420	Lab.: PE-III: I.C. Engines										
	ME1422	Lab.: PE-III: Refrigeration & Air Conditioning										
	ME1446	Lab.: PE-III: Mechatronics										
	ME1470	Lab.: PE-III: Refrigeration & Cryogenics										
ME1477	Lab.: PE-III: Machine Tool Design											
7	ME1433	Project Phase-I	0	0	4	4	4			40	60	
8	ME1434	Industrial Training / CRT	0	0	0	0	2			100		
Total			18	0	6	24	25					

Chairperson		Version	1.01	Applicable for AY 2017-18 Onwards
Dean (Acad. Matters)		Date of Release	May 2017	



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 2014

Mechanical Engineering

Sl.No.	Sub Code	Subject	CONTACT HOURS				Credits	% Weightage				ESE Duration
			L	T	P	Total		MSE- I	MSE- II	TA	ESE	
EIGHTH SEMESTER												
1	ME1435	Automation In Production	3	0	0	3	3	15	15	10	60	3 Hours
2	ME1436	Lab. :Automation In Production	0	0	2	2	1			40	60	
3	ME1475	Optimisation Techniques	3	1	0	4	4	15	15	10	60	3 Hours
4	Professional Elective - IV		4	0	0	4	4	15	15	10	60	3 Hours
	ME1415	PE-IV: Vibration										
	ME1437	PE-IV: Industrial Fluid Power										
	ME1439	PE-IV: Cnc & Robotics										
	ME1441	PE-IV: Vehicle Engineering										
	ME1443	PE-IV: MIS										
	ME1478	PE-IV: Solar Energy and Utilization										
ME1480	PE-IV: Design For Fatigue and Fracture											
5	Lab.: Professional Elective - IV		0	0	2	2	1			40	60	
	ME1416	Lab. : PE-IV: Vibration										
	ME1438	Lab. : PE-IV: Industrial Fluid Power										
	ME1440	Lab. : PE-IV: Cnc & Robotics										
	ME1442	Lab. : PE-IV: Vehicle Engineering										
	ME1444	Lab. : PE-IV: MIS										
	ME1479	Lab. : PE-IV: Solar Energy And Utilization										
ME1481	Lab. : PE-IV: Design For Fatigue And Fracture											
6	Professional Elective - V		4	0	0	4	4	15	15	10	60	3 Hours
	ME1451	PE-V: Stress Analysis										
	ME1452	PE-V: Design Of Experiments And Taguchi Methods										
	ME1453	PE-V: Value Engg.										
	ME1454	PE-V: Lean Sigma										
	ME1455	PE-V: Product Design And Development										
	ME1457	PE-V: Power Plant Engineering										
	ME1458	PE-V: Machine Tool Design										
	ME1459	PE-V: Industrial Safety										
	ME1460	PE-V: Advance Welding Techniques										
	ME1482	PE-V: Air Conditioning										
ME1483	PE-V: Cryogenic Systems											
ME1484	PE-V: Tribology											
7	ME1472	Comprehensive Viva Voce	0	0	0	0	3				100	
8	ME1473	Project Phase-II	0	0	8	8	8			40	60	
9	ME1474	Extra Curricular Activities	0	0	0	0	2			100		
Total			14	1	12	27	30					

Chairperson		Version	1.02	Applicable for AY 2017-18 Onwards
Dean (Acad. Matters)		Date of Release	Dec. 2017	




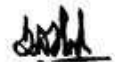
Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

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

B.E. SCHEME OF EXAMINATION 2014

Electrical Engineering

Sl. No.	Course Code	Course Title	Contact Hours				Credits	% Weightage				ESE Duration Hrs.
			L	T	P	Total Contact Hours		MSE-I	MSE-II	TA	ESE	
Third Semester												
1	GE1201	Engineering Mathematics - III	3	1	0	4	4	15	15	10	60	3
2	EE1215	Analog Electronics	3	0	0	3	3	15	15	10	60	3
3	EE1216	Lab: Analog Electronics	0	0	2	2	1			40	60	
4	EL1201	Network Analysis	3	1	0	4	4	15	15	10	60	3
5	EL1202	Lab: Network Analysis	0	0	2	2	1			40	60	
6	EL1203	Electrical Machines-I	3	1	0	4	4	15	15	10	60	3
7	EL1204	Lab: Electrical Machines-I	0	0	2	2	1			40	60	
8	EL1205	Electrical Measurement & Instrumentation	3	0	0	3	3	15	15	10	60	3
9	EL1206	Lab: Electrical Measurement & Instrumentation	0	0	2	2	1			40	60	
TOTAL			15	3	8	26	22					
Fourth Semester												
1	GE1204	Advance Mathematical Techniques	3	1	0	4	4	15	15	10	60	3
2	EL1207	Electrical Machines-II	3	1	0	4	4	15	15	10	60	3
3	EL1208	Lab: Electrical Machines-II	0	0	2	2	1			40	60	
4	EL1209	Signals & Systems	3	0	0	3	3	15	15	10	60	3
5	EL1211	Electrical Machine Design	3	1	0	4	4	15	15	10	60	3
6	EL1213	Electric and Magnetic Fields	3	1	0	4	4	15	15	10	60	3
7	EL1210	Lab: MATLAB Programming	0	0	2	2	1			40	60	
8	EL1212	Lab: Electrical Engg. Workshop	0	0	2	2	1			40	60	
TOTAL			15	4	6	25	22					
 Chairperson	 Dean (Acad. Matters)		1.00		May 2015		Applicable for AY 2015-16 Onwards					
			Version		Date of Release							



Nagar Yuwak Shikshan Sanstha's

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B.E. SCHEME OF EXAMINATION 2014 Electrical Engineering

Sl.No.	Sub Code	Subject	CONTACT HOURS				Credits	% Weightage				ESE Duration
			L	T	P	Total		MSE- I	MSE- II	TA	ESE	
FIFTH SEMESTER												
1	GE1312	Fundamental of Economics	3	0	0	3	3	15	15	10	60	3 Hrs
2	EL1301	Electrical Power System - I	3	1	0	4	4	15	15	10	60	3 Hrs
3	EL1302	Power Electronics	3	1	0	4	4	15	15	10	60	3 Hrs
4	EL1303	Lab. : Power Electronics	0	0	2	2	1			40	60	
5	EL1304	Power Station Practice	3	0	0	3	3	15	15	10	60	3 Hrs
6	Open Elective I		3	0	0	3	3	15	15	10	60	3 Hrs
	EL1316	OE I : Renewable Energy Generation Systems										
	EL1320	OE I : Electrical Machines and their applications										
	EL1321	OE I : Testing and Maintenance of Electrical Equipments										
7	ET1329	Microprocessors	4	0	0	4	4	15	15	10	60	3 Hrs
8	ET1330	Lab. : Microprocessors	0	0	2	2	1			40	60	
9	EL1318	Lab. : Electronics Engineering Workshop	0	0	2	2	1					
TOTAL			19	2	6	27	24					

SIXTH SEMESTER

1	GE1311	Fundamental of Management	3	0	0	3	3	15	15	10	60	3 Hrs
2	EL1306	Control System	3	1	0	4	4					
3	EL1307	Lab.: Control System	0	0	2	2	1					
4	EL1308	Electrical Power System-II	3	1	0	4	4	15	15	10	60	3 Hrs
5	EL1309	Electrical Drives	4	0	0	4	4	15	15	10	60	3 Hrs
6	EL1310	Lab.: Electrical Drives	0	0	2	2	1			40	60	
7	Prof. Elective I		3	0	0	3	3	15	15	10	60	3 Hrs
	EL1311	PE-I: Advanced Power Electronics										
	EL1322	PE-I: Optimization Techniques										
	EL1323	PE-I: Electrical Installation										
8	Open Elective II		3	0	0	3	3	15	15	10	60	3 Hrs
	EL1324	OE II: Electrical Energy Audit and Safety										
	EL1325	OE II: Utilisation of Electrical Energy										
	EL1326	OE II Power System Engineering.										
9	EL1312	Lab. : Simulation in Power Electronics & Drives	0	0	2	2	1			40	60	
10	EL1319	Seminar	0	0	2	2	1			100		
TOTAL			19	2	8	29	25					

Chairperson		Version	1.00	Applicable for AY 2016-17 Onwards
Dean (Acad. Matters)		Date of Release	May 2016	



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B.E. SCHEME OF EXAMINATION 2014

Electrical Engineering

Sl.No.	Sub Code	Subject	CONTACT HOURS				Credits	% Weightage				ESE Duration
			L	T	P	Total		MSE-I	MSE-II	TA	ESE	

SEVENTH SEMESTER

1	EL1401	High Voltage Engineering	3	0	0	3	3	15	15	10	60	3 Hrs
2	EL1402	Lab. : High Voltage Engineering	0	0	2	2	1			40	60	
3	EL1403	Computer Applications in Electrical Engg	3	1	0	4	4	15	15	10	60	3 Hrs
4	EL1404	Lab.: Computer Applications in Electrical Engg	0	0	2	2	1			40	60	
5	Prof. Elective II		3	0	0	3	3	15	15	10	60	3 Hrs
	EL1410	PE II: FACTS Devices										
	EL1427	PE II: Artificial Intelligence based Systems										
	EL1431	PE II: Advanced Control System										
6	EL1432	Electrical Distribution Power System	3	0	0	3	3	15	15	10	60	3 Hrs
7	EL1405	Lab.: Simulations in Power System	0	0	2	2	1			40	60	
8	EL1406	Industrial Training / CRT	0	0	0	0	3			100		
9	EL1407	Project Phase I	0	0	4	4	4			40	60	
TOTAL			12	1	10	23	23					

EIGHTH SEMESTER

1	EL1416	Switchgear and Protection	3	0	0	3	3	15	15	10	60	
2	EL1433	Renewable Energy Sources	3	0	0	3	3	15	15	10	60	
3	EL1434	Lab.: Renewable Energy Sources	0	0	2	2	1			40	60	
4	Prof. Elective III		3	0	0	3	3	15	15	10	60	
	EL1411	PE III: Advanced Electrical Drives										
	EL1422	PE III: Power System Operation and Control										
	EL1435	PE III: Fundamentals of Power Quality										
5	Prof. Elective IV		3	0	0	3	3	15	15	10	60	
	EL1424	PE IV: EHVAC-HVDC Transmission										
	EL1425	PE IV: Electrical Power Utilization										
	EL1436	PE IV: Fundamentals of Smart Grid										
6	EL1417	Lab.: Switchgear and Protection	0	0	2	2	1			40	60	
7	EL1418	Lab.: Substation Design	0	0	4	4	2			40	60	
8	EL1419	Lab.: Comprehensive Viva-voce	0	0	0	0	3				100	
9	EL1430	Extra Curricular Activities / Competitive Exam.	0	0	0	0	2			100		
10	EL1420	Project Phase II	0	0	8	8	8			40	60	
TOTAL			12	0	16	28	29					

Chairperson		Version	1.00	Applicable for AY 2016-17 Onwards
Dean (Acad. Matters)		Date of Release	May 2016	



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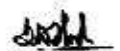
B.E. SCHEME OF EXAMINATION 2014

Electronics Engineering

Sl. No.	Course Code	Course Title	Contact Hours				Credits	% Weightage				ESE Duration Hrs.
			L	T	P	Total Contact Hours		MSE-I	MSE-II	TA	ESE	
THIRD SEMESTER												
1	GE1201	Engineering Mathematics - III	3	1	0	4	4	15	15	10	60	3
2	EE1201	Electronic Devices	3	1	0	4	4	15	15	10	60	3
3	EE1202	Lab: Electronic Devices	0	0	2	2	1	40			60	
4	EE1203	Digital Circuits	4	0	0	4	4	15	15	10	60	3
5	EE1204	Lab: Digital Circuits	0	0	2	2	1	40			60	
6	EE1205	Electronic Measurement & Instrumentation	3	0	0	3	3	15	15	10	60	3
7	EE1206	Lab: Electronic Measurement & Instrumentation	0	0	2	2	1	40			60	
8	EL1201	Network Analysis	3	1	0	4	4	15	15	10	60	3
9	EL1202	Lab: Network Analysis	0	0	2	2	1	40			60	
			16	3	8	27	23					

FOURTH SEMESTER

1	GE1204	Advance Mathematical Techniques	3	1	0	4	4	15	15	10	60	3
2	EE1207	Electromagnetic Fields	3	1	0	4	4	15	15	10	60	3
3	EE1208	Electronic Circuit Analysis	3	1	0	4	4	15	15	10	60	3
4	EE1209	Lab: Electronic Circuit Analysis	0	0	2	2	1	40			60	
5	EL1217	Control System Engineering	4	0	0	4	4	15	15	10	60	3
6	EE1210	Microprocessor & Interfacing	3	0	0	3	3	15	15	10	60	3
7	EE1211	Lab: Microprocessor & Interfacing	0	0	2	2	1	40			60	
8	EE1212	Simulation Laboratory	0	0	2	2	1	40			60	
			16	3	6	25	22					

 Chairperson	 Dean (Acad. Matters)	1.00	May 2015	Applicable for AY 2015-16 Onwards
		Version	Date of Release	



Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering

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B.E. SCHEME OF EXAMINATION 2014

Electronics Engineering

S no.	Sub Code	Subject	Contact Hours				Credits	% Weightage				ESE Duration
			L	T	P	Total		MSE - I	MSE - II	TA	ESE	
FIFTH SEMESTER												
1	GE1311	Fundamental of Management	3	0	0	3	3	15	15	10	60	
2	EE1301	Analog Communication	4	0	0	4	4	15	15	10	60	3 Hrs
3	EE1302	Lab.: Analog Communication	0	0	2	2	1			40	60	
2	EE1306	Signals and Systems	3	1	0	4	4	15	15	10	60	3 Hrs
4	EE1308	Analog Integrated Circuit & its Application	3	1	0	4	4	15	15	10	60	3 Hrs
5	EE1309	Lab.: Analog Integrated Circuit & its Application	0	0	2	2	1			40	60	
Professional Elective-I												
6	EE1304	PE I: Power Electronics	3	0	0	3	3	15	15	10	60	3 Hrs
	EE1305	PE I: Advanced Instrumentation										
	EE1307	PE I: Switching Theory & Finite Automata										
	EE1324	PE I: Computer Organisation										
7	EE1310	Lab.: Electronics workshop	0	0	2	2	1			40	60	
8	EE1311	Seminar	0	0	2	2	1			100		
Open Elective-I												
9	EE1320	OE I: Data Acquisition & Signal Conditioning	3	0	0	3	3	15	15	10	60	3 Hrs
	EE1322	OE I: Microprocessor & Microcontroller										
	EE1323	OE I: Consumer Electronics										
Total			19	2	8	29	25					

SIXTH SEMESTER												
1	GE1312	Fundamental of Economics	3	0	0	3	3	15	15	10	60	3 Hrs
2	EE1303	Transmission Lines & Wave Guides	4	0	0	4	4	15	15	10	60	
3	EE1314	Digital Signal Processing	3	1	0	4	4	15	15	10	60	
4	EE1315	Lab.: Digital Signal Processing	0	0	2	2	1			40	60	
5	EE1316	Digital System Design	3	1	0	4	4	15	15	10	60	3 Hrs
6	EE1317	Lab.: Digital System Design	0	0	2	2	1			40	60	
7	EE1326	Microcontroller & Interfacing	3	1	0	4	4	15	15	10	60	
8	EE1327	Lab.: Microcontroller & Interfacing	0	0	2	2	1			40	60	
Open Elective-II												
9	EE1328	OE II: Fuzzy Logic & Neural Network	3	0	0	3	3	15	15	10	60	3 Hrs
	EE1329	OE II: Basics of Analog and Digital Communication										
	EE1330	OE II: Biomedical Instrumentation										
Total			19	3	6	28	25					

Chairperson		Version	1.00	Applicable for AY 2016-17 Onwards
Dean (Acad. Matters)		Date of Release	May 2016	



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 2014
Electronics Engineering

S no.	Sub Code	Subject	Contact Hours				Credits	% Weightage				ESE Duration
			L	T	P	Total		MSE - I	MSE - II	TA	ESE	
SEVENTH SEMESTER												
1	Professional Elective-II		3	1	0	4	4	15	15	10	60	3 Hrs
	EE1401	PE II: Embedded Systems										
	EE1403	PE II: Digital CMOS Circuits										
	EE1405	PE II: Algorithm & Data Structures										
2	Lab Professional Elective-II		0	0	2	2	1	40			60	
	EE1402	Lab.: PE II: Embedded Systems										
	EE1404	Lab.: PE II: Digital CMOS Circuits										
	EE1406	Lab.: PE II: Algorithm & Data Structures										
3	EE1407	Electronics Circuit Design	3	1	0	4	4	15	15	10	60	3 Hrs
4	EE1408	Lab.: Electronics Circuit Design	0	0	2	2	1	40			60	
5	EE1409	Digital Communication	3	0	0	3	3	15	15	10	60	
6	EE1410	Lab.: Digital Communication	0	0	2	2	1	40			60	
7	EE1434	RF & Microwave	4	0	0	4	4	15	15	10	60	
8	EE1435	Lab.: RF & Microwave	0	0	2	2	1	40			60	
9	EE1412	Project Phase-I	0	0	4	4	4	40			60	
10	EE1413	Industrial Training / CRT	0	0	0	0	2	100				
Total			13	2	12	27	25					

EIGHTH SEMESTER

1	Professional Elective-III		3	0	0	3	3	15	15	10	60	3 Hrs
	EE1414	PE III: Computer Communication Network										
	EE1415	PE III: Operating System Concepts										
	EE1436	PE III: RADAR Engineering										
	EE1437	PE III: Micro Electro Mechanical Systems										
	EE1439	PE III: Display Technology										
2	Professional Elective-IV		4	0	0	4	4	15	15	10	60	3 Hrs
	EE1417	PE IV: Soft Computing										
	EE1419	PE IV: Analog VLSI Design										
	EE1427	PE IV: Digital Image Processing										
	EE1423	PE IV: Object Oriented Programming										
3	Lab: Professional Elective-IV		0	0	2	2	1	40			60	
	EE1418	Lab.: PE IV: Soft Computing										
	EE1420	Lab.: PE IV: Analog VLSI Design										
	EE1428	Lab.: PE IV: Digital Image Processing										
	EE1424	Lab.: PE IV: Object Oriented Programming										
4	Professional Elective-V		3	0	0	3	3	15	15	10	60	3 Hrs
	EE1416	PE V: Biomedical Instrumentation & its Applications										
	EE1421	PE V: Optical Communication										
	EE1425	PE V: Wireless Communication										
	EE1438	PE V: Mechatronics										
5	EE1433	Lab.: Electronics Design Automation	0	0	2	2	1	40			60	
6	EE1430	Comprehensive Viva-voce	0	0	0	0	3				100	
7	EE1431	Extra/Co-Curricular / Competitive Examinations	0	0	0	0	2	100				
8	EE1432	Project Phase-II	0	0	8	8	8	40			60	
Total			10	0	12	22	25					

Chairpersons		Version	1.01	Applicable for AY 2017-18 Onwards
Dean (Acad. Matters)		Date of Release	Dec. 2017	





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 2014

Electronics and Telecommunication Engineering

Sl. No.	Course Code	Course Title	Contact Hours				Credits	% Weightage				ESE Duration Hrs.
			L	T	P	Total Contact Hours		MSE-I	MSE-II	TA	ESE	
THIRD SEMESTER												
1	GE1201	Engineering Mathematics - III	3	1	0	4	4	15	15	10	60	3
2	ET1201	Electronic Devices	3	1	0	4	4	15	15	10	60	3
3	ET1202	Lab: Electronic Devices	0	0	2	2	1			40	60	
4	ET1203	Digital Circuits	3	1	0	4	4	15	15	10	60	3
5	ET1204	Lab: Digital Circuits	0	0	2	2	1			40	60	
6	ET1205	Electronic Measurement and Instrumentation.	3	1	0	4	4	15	15	10	60	3
7	ET1206	Lab: Electronic Measurement Instrumentation	0	0	2	2	1			40	60	
8	EL1201	Network Analysis	3	1	0	4	4	15	15	10	60	3
Total			15	5	6	26	23					
FOURTH SEMESTER												
1	GE1204	Advance Mathematical Techniques	3	1	0	4	4	15	15	10	60	3
2	ET1207	Electromagnetic Fields	3	1	0	4	4	15	15	10	60	3
3	ET1208	Electronic Circuit Analysis	3	1	0	4	4	15	15	10	60	3
4	ET1209	Lab: Electronic Circuit Analysis	0	0	2	2	1			40	60	
5	EL1217	Control System Engineering	4	0	0	4	4	15	15	10	60	3
6	ET1210	Microcontroller and applications	4	0	0	4	4	15	15	10	60	3
7	ET1211	Lab: Microcontroller and applications	0	0	2	2	1			40	60	
8	ET1212	Simulation Lab	0	0	4	4	2			40	60	
Total			17	3	8	28	24					
 Chairperson		 Dean (Acad. Matters)		1.00		May 2015		Applicable for AY 2015-16 Onwards				
				Version		Date of Release						



Nagar Y uwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering

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

B. E. SCHEME OF EXAMINATION 2014

Electronics and Telecommunication Engineering

S. N.	Sub Code	Subject	Contact Hours				CR	% Weightage				ESE Duration
			L	T	P	Total		MSE I	MSE II	TA	ESE	
FIFTH SEMESTER												
1	GE1312	Fundamental of Economics	3	0	0	3	3	15	15	10	60	3 Hrs
2	ET1301	Analog Communication	4	0	0	4	4	15	15	10	60	3 Hrs
3	ET1302	Lab.: Analog Communication	0	0	2	2	1			40	60	
4	ET1303	Analog Integrated circuits	3	1	0	4	4	15	15	10	60	3 Hrs
5	ET1304	Lab.: Analog Integrated circuits	0	0	2	2	1			40	60	
6	ET1305	Signals and Systems	3	1	0	4	4	15	15	10	60	3 Hrs
7	ET1306	Electronic Workshop	0	0	2	2	1			40	60	
Prof. Elective I												
8	ET1307	PE I : Algorithm & Data Structure	3	0	0	3	3	15	15	10	60	3 Hrs
	ET1309	PE I : Object Oriented Programming										
	ET1311	PE I : Discrete Structures										
	ET1336	PE I : Advanced Microprocessor and Peripherals										
Lab. Prof. Elective I												
9	ET1308	Lab.: PE I: Algorithm & Data Structure	0	0	2	2	1			40	60	
	ET1310	Lab.: PE I: Object Oriented Programming										
	ET1312	Lab.: PE I: Discrete Structures										
	ET1337	Lab.: PE I: Advanced Microprocessor and Peripherals										
Open Elective I												
10	ET1331	OE I : Microcontroller & Embedded Systems	3	0	0	3	3	15	15	10	60	3 Hrs
	ET1333	OE I : Principles of Communication Engineering										
	ET1335	OE I : Fundamentals of Image Processing										
Total			19	2	8	29	25					

SIXTH SEMESTER

1	GE1311	Fundamental of Management	3	0	0	3	3	15	15	10	60	3 Hrs
2	ET1314	Digital Communication	4	0	0	4	4	15	15	10	60	3 Hrs
3	ET1315	Lab.: Digital Communication	0	0	2	2	1			40	60	
4	ET1316	Transmission lines & Wave Guides	3	1	0	4	4	15	15	10	60	3 Hrs
5	ET1317	Digital Signal Processing	3	1	0	4	4	15	15	10	60	3 Hrs
6	ET1318	Lab.: Digital Signal Processing	0	0	2	2	1			40	60	
Prof. Elective II												
7	ET1319	PE II : Embedded System	3	0	0	3	3	15	15	10	60	3 Hrs
	ET1321	PE II : Digital System Design										
	ET1323	PE II : TV & Video Engineering										
	ET1338	PE II : Data Compression & Encryption										
Lab. Prof. Elective II												
8	ET1320	Lab.: PE II : Embedded System	0	0	2	2	1			40	60	
	ET1322	Lab.: PE II : Digital system Design										
	ET1324	Lab.: PE II : TV & Video Engineering										
	ET1339	Lab.: PE II : Data Compression & Encryption										
Open Elective II												
9	ET1340	OE II : Soft computing	3	0	0	3	3	15	15	10	60	3 Hrs
	ET1341	OE II : Industrial Instrumentation										
	ET1342	OE II : Medical Electronics										
	ET1343	OE II : Display Technology and Applications										
10	ET1327	Seminar	0	0	2	2	1			100		
Total			19	2	8	29	25					

Chairperson		Version	1.01	Applicable for AY 2017-18 Onwards
Dean (Acad. Matters)		Date of Release	Nov. 2017	



Nagar Y uwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering

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

B. E. SCHEME OF EXAMINATION 2014

Electronics and Telecommunication Engineering

S. N.	Sub Code	Subject	Contact Hours				CR	% Weightage				ESE Duration
			L	T	P	Total		MSE I	MSE II	TA	ESE	
SEVENTH SEMESTER												
1	ET1401	RF & Microwave	4	0	0	4	4	15	15	10	60	3 Hrs
2	ET1402	Lab.: RF & Microwave	0	0	2	2	1			40	60	
3	ET1403	Principles of Image Processing	4	0	0	4	4	15	15	10	60	3 Hrs
4	ET1404	Lab. : Principles of Image Processing	0	0	2	2	1			40	60	
Professional Elective-III												
5	ET1405	PE III : Optical Communication	3	0	0	3	3	15	15	10	60	3 Hrs
	ET1407	PE III : Microwave Integrated circuit										
	ET1409	PE III : Communication Networks										
	ET1431	PE III : Analog VLSI										
Lab.:Professional Elective -III												
6	ET1406	Lab. :PE III : Optical Communication	0	0	2	2	1			40	60	
	ET1408	Lab. :PE III : Microwave Integrated circuits										
	ET1410	Lab. :PE III : Communication Networks										
	ET1432	Lab. :PE III : Analog VLSI										
7	ET1413	Industrial Training/ CRT	0	0	0	0	2			100		
8	ET1414	Project phase -I	0	0	4	4	4			40	60	
Total			11	0	10	21	20					

EIGHTH SEMESTER

1	ET1415	Antenna Theory & Design	4	0	0	4	4	15	15	10	60	3 Hrs
2	ET1416	Lab.: Antenna Theory & Design	0	0	2	2	1			40	60	
3	ET1417	CMOS VLSI Design	4	0	0	4	4	15	15	10	60	3 Hrs
4	ET1418	Lab.: CMOS VLSI Design	0	0	2	2	1			40	60	
Professional Elective IV												
5	ET1419	PEIV : Power Electronics	3	0	0	3	3	15	15	10	60	3 Hrs
	ET1420	PEIV : Wireless Mobile Communication Systems										
	ET1433	PEIV : Satellite Communication & RADAR Engineering										
	ET1434	PEIV : Biomedical Instrumentation										
	ET1437	PEIV : Display Technology										
Professional Elective V												
6	ET1422	PE V : Fuzzy Logic & Neural Networks	3	0	0	3	3	15	15	10	60	3 Hrs
	ET1424	PE V : RF Circuit Design										
	ET1426	PE V : Multimedia Communications										
	ET1435	PE V:Advances in Communication										
Lab.: Professional Elective V												
7	ET1423	Lab.: PE V : Fuzzy Logic & Neural Networks	0	0	2	2	1			40	60	
	ET1425	Lab.: PE V : RF Circuit Design										
	ET1427	Lab.: PE V : Multimedia Communications										
	ET1436	Lab.: PE V:Advances in Communication										
8	ET1428	Project Phase-II	0	0	8	8	8			40	60	
9	ET1429	Comprehensive Viva-voce	0	0	0	0	3			100		
10	ET1430	Extra/co curricular Activities	0	0	0	0	2			100		
Total			14	0	14	28	30					

Chairperson		Version	1.01	Applicable for AY 2017-18 Onwards
Dean (Acad. Matters)		Date of Release	Nov. 2017	



Nagar Yuwak Shikshan Sanstha's

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B.E. SCHEME OF EXAMINATION 2014

Computer Technology

Sl. No.	Course Code	Course Title	Contact Hours				Credits	% Weightage				ESE Duration Hrs.
			L	T	P	Total Contact Hours		MSE-I	MSE-II	TA	ES E	

THIRD SEMESTER

1	GE1201	Engineering Mathematics - III	3	1	0	4	4	15	15	10	60	3
2	CT1221	Object Oriented Programming	4	0	0	4	4	15	15	10	60	3
3	CT1222	Lab: Object Oriented Programming	0	0	2	2	1	40			60	
4	CT1203	Data Structure	4	0	0	4	4	15	15	10	60	3
5	CT1204	Lab: Data Structure	0	0	2	2	1	40			60	
6	EE1217	Logic Design & Microprocessor	3	1	0	4	4	15	15	10	60	3
7	EE1218	Lab: Logic Design & Microprocessor	0	0	2	2	1	40			60	
8	CT1210	Lab: Web Technology	0	0	2	2	1	40			60	
Total			14	2	8	24	20					

FOURTH SEMESTER

1	GE1206	Discrete Mathematics & Graph	3	1	0	4	4	15	15	10	60	3
2	CT1205	Programming Language Concepts & Constructs	3	1	0	4	4	15	15	10	60	3
3	CT1206	Lab: Programming Language Concepts & Constructs	0	0	2	2	1	40			60	
4	CT1207	Computer Architecture & Organization	4	0	0	4	4	15	15	10	60	3
5	CT1223	Advanced Data Structures	4	0	0	4	4	15	15	10	60	3
6	CT1224	Lab: Advanced Data Structures	0	0	2	2	1	40			60	
7	CT1208	System Programming	4	0	0	4	4	15	15	10	60	3
8	CT1209	Lab: System Programming	0	0	2	2	1	40			60	
Total			18	2	6	26	23					

Chairperson	 Dean (Acad. Matters)	1.00	May 2015	Applicable for AY 2015-16 Onwards
		Version	Date of Release	



Nagar Yuwak Shikshan Sanstha's

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B.E. SCHEME OF EXAMINATION 2014

Computer Technology

S. N.	Sub Code	Subject	Contact Hours				CR	% Weightage				ESE Duration
			L	T	P	Total		MSE I	MSE II	TA	ESE	

FIFTH SEMESTER

1	GE1312	Fundamental of Economics	3	0	0	3	3	15	15	10	60	3
2	CT1301	Theoretical Foundation of Computer Science	3	1	0	4	4	15	15	10	60	3
3	CT1302	Operating Systems	4	0	0	4	4	15	15	10	60	3
4	CT1303	Lab. : Operating Systems	0	0	2	2	1			40	60	
5	CT1316	Database Management Systems	4	0	0	4	4	15	15	10	60	3
6	CT1317	Lab. : Database Management Systems	0	0	2	2	1			40	60	
7	CT1340	Computer Networks	4	0	0	4	4	15	15	10	60	3
8	CT1341	Lab. : Computer Networks	0	0	2	2	1			40	60	
9	Open Elective-I		3	0	0	3	3	15	15	10	60	3
	CT1342	OEI: Introduction to DBMS										
	CT1343	OEI: Operating System Concepts										
	CT1344	OEI: Essentials of IT										
10	CT1328	Seminar I	0	0	2	2	1			100		
Total			21	1	8	30	26					

SIXTH SEMESTER

1	GE1311	Fundamental of Management	3	0	0	3	3	15	15	10	60	3
2	CT1314	Design & Analysis of Algorithm	3	1	0	4	4	15	15	10	60	3
3	CT1318	Language Processors	3	1	0	4	4	15	15	10	60	3
4	CT1319	Lab. : Language Processors	0	0	2	2	1			40	60	
5	CT1345	Software Engineering	4	0	0	4	4	15	15	10	60	3
6	CT1346	Lab. : Software Engineering	0	0	2	2	1			40	60	
7	Professional Elective I		4	0	0	4	4	15	15	10	60	3
	CT1320	PEI: Computer Graphics										
	CT1322	PEI: Realtime Systems										
	CT1347	PEI: Mobile Operating System										
	CT1349	PEI: Business Intelligence and its Applications										
	CT1353	PEI: Introduction to Geographical Information System										
CT1355	PEI: Privacy and Security in Online Social Networks											
8	Lab. : Professional Elective I		0	0	2	2	1			40	60	
	CT1321	Lab. : PE I: Computer Graphics										
	CT1323	Lab. : PE I: Realtime Sysmes										
	CT1348	Lab. : PE I: Mobile Operating System										
	CT1350	Lab. : PE I: Business Intelligence and its Applications										
	CT1354	Lab. : PE I: Introduction to Geographical Information System										
CT1356	Lab. : PE1: Privacy and Security in Online Social Networks											
9	Open Elective II		3	0	0	3	3	15	15	10	60	3
	CT1351	OEII: Multimedia and Animation										
	CT1352	OEII: Current Trends and Technologies										
10	CT1329	Software Lab (Mini Project)	0	0	2	2	1			100		
Total			20	2	8	30	26					

Chairperson		Version	1.02	Applicable for AY 2017-18 Onwards
Dean (Acad. Matters)		Date of Release	Nov. 2017	



Nagar Yuwak Shikshan Sanstha's

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B. E. SCHEME OF EXAMINATION 2014

Computer Technology

S. N.	Sub Code	Subject	Contact Hours				CR	% Weightage				ESE Duration
			L	T	P	Total		MSE I	MSE II	TA	ESE	
SEVENTH SEMESTER												
1	CT1415	Network Security	4	0	0	4	4	15	15	10	60	3
2	CT1451	Artificial Intelligence	4	0	0	4	4	15	15	10	60	3
3	CT1452	Lab. Artificial Intelligence	0	0	2	2	1			40	60	
Professional Elective II												
4	CT1405	PE II: Embedded Systems	4	0	0	4	4	15	15	10	60	3
	CT1406	PE II: Neural Network & Fuzzy Logic										
	CT1407	PE II: Ad-hoc Wireless Network										
	CT1453	PE II: Probabilistic Statistical Data Analysis										
Professional Elective III												
5	CT1408	PE III: Cloud Computing	4	0	0	4	4	15	15	10	60	3
	CT1409	PE III: Operations Research										
	CT1437	PE III: Parallel Computing										
	CT1454	PE III: Machine Learning Techniques										
6	CT1413	Industrial Training/ CRT	0	0	0	0	2			100		
7	CT1414	Project Phase I	0	0	4	4	4			40	60	
Total			16	0	6	22	23					

EIGHTH SEMESTER

1	GE1408	Cyber Laws	4	0	0	4	4	15	15	10	60	3
2	CT1450	Object Oriented Modeling	3	1	0	4	4	15	15	10	60	3
Professional Elective IV												
3	CT1418	PE IV: Digital Image Processing	4	0	0	4	4	15	15	10	60	3
	CT1420	PE IV: Pattern Recognition										
	CT1441	PE IV: Mobile Communication										
	CT1455	PE IV: Cyber Forensics										
Lab. Professional Elective IV												
4	CT1419	Lab.: PE IV: Digital Image Processing	0	0	2	2	1			40	60	
	CT1421	Lab.: PE IV: Pattern Recognition										
	CT1442	Lab.: PE IV: Mobile Communication										
	CT1456	Lab.: PE IV: Cyber Forensics										
Professional Elective V												
5	CT1432	PE V: Software Project Management	4	0	0	4	4	15	15	10	60	3
	CT1443	PE V: Internet of Things										
	CT1445	PE V: Numerical Computing										
Lab.: Professional Elective V												
6	CT1433	Lab.: PE V: Software Project Management	0	0	2	2	1			40	60	
	CT1444	Lab.: PE V: Internet of Things										
	CT1446	Lab.: PE V: Numerical Computing										
7	CT1425	Comprehensive Viva	0	0	0	0	3				100	
8	CT1426	Project Phase -II	0	0	8	8	8			40	60	
9	CT1427	Extra/Co-curricular / Competitive Examination	0	0	0	0	2				100	
Total			15	1	12	28	31					

Chairperson		Version	1.01	Applicable for AY 2017 -18 Onwards
Dean (Acad. Matters)		Date of Release	May 2017	





Nagar Yuwak Shikshan Sanstha's

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B.E. SCHEME OF EXAMINATION 2014

Information Technology

Sl. No.	Course Code	Course Title	Contact Hours				Credits	% Weightage				ESE Duration Hrs.
			L	T	P	Total Contact Hours		MSE-I	MSE-II	TA	ESE	
THIRD SEMESTER												
1	GE1201	Engineering Mathematics - III	3	1	0	4	4	15	15	10	60	3
2	IT1201	Introduction to Information Technology	3	0	0	3	3	15	15	10	60	3
3	IT1206	Microprocessor Based System Design	4	0	0	4	4	15	15	10	60	3
4	IT1207	Lab: Microprocessor Based System Design	0	0	2	2	1	40		60		
5	IT1204	Algorithms & Data Structures	3	1	0	4	4	15	15	10	60	3
6	IT1205	Lab: Algorithms & Data Structures	0	0	2	2	1	40		60		
7	EE1213	Digital Circuits & Switching Theory	4	0	0	4	4	15	15	10	60	3
8	EE1214	Lab: Digital Circuits & Switching Theory	0	0	2	2	1	40		60		
			17	2	6	25	22					
FOURTH SEMESTER												
1	GE1208	Discrete Mathematics & Graph Theory	3	1	0	4	4	15	15	10	60	3
2	IT1208	Computer Architecture & Organization	4	0	0	4	4	15	15	10	60	3
3	IT1202	Object Oriented Programming	3	1	0	4	4	15	15	10	60	3
4	IT1203	Lab: Object Oriented Programming	0	0	2	2	1	40		60		
5	IT1209	Theory of Computation	3	1	0	4	4	15	15	10	60	3
6	IT1210	Lab: Computer Workshop	0	0	2	2	1	40		60		
7	ET1215	Information Theory and Communication	4	0	0	4	4	15	15	10	60	3
8	ET1216	Lab: Information Theory and Communication	0	0	2	2	1	40		60		
			17	3	6	26	23					
 Chairperson		 Dean (Acad. Matters)		Version		Date of Release		May 2015		Applicable for AY 2015-16 Onwards		



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B.E. SCHEME OF EXAMINATION 2014

Information Technology

Sr. No.	Course Code	Course Title	CONTACT HOURS				Credits	%Weightage				ESE Duration Hrs.
			L	T	P	Total Contact		MSE-I	MSE-II	TA	ESE	
FIFTH SEMESTER												
1	GE1312	Fundamental of Economics	3	0	0	3	3	15	15	10	60	3 Hrs
2	IT1303	Operating Systems	3	1	0	4	4	15	15	10	60	3 Hrs
3	IT1304	Lab: Operating Systems	0	0	2	2	1			40	60	
4	IT1305	Software Engineering	4	0	0	4	4	15	15	10	60	3 Hrs
5	IT1306	Lab: Software Engineering	0	0	2	2	1			40	60	
6	IT1316	Data Base Management Systems	3	1	0	4	4	15	15	10	60	3 Hrs
7	IT1317	Lab: Data Base Management Systems	0	0	2	2	1			40	60	
8	Professional Elective I		4	0	0	4	4	15	15	10	60	3 Hrs
	IT1307	PE I: Computer Graphics										
	IT1309	PE I: Embedded System										
	IT1326	PE I: Digital Signal Processing										
	IT1327	PE I: Web Programming										
IT1328	PE I: Data Analysis & Statistics											
9	Open Elective I		3	0	0	3	3	15	15	10	60	3 Hrs
	IT1322	OE I: Web Technology										
	IT1325	OE I: Object oriented programming (Java)										
10	IT1313	Seminar	0	0	2	2	1			100		
Total			20	2	8	30	26					

SIXTH SEMESTER

1	GE1311	Fundamental of Management	3	0	0	3	3	15	15	10	60	3 Hrs
2	IT1338	Computer Networks	3	1	0	4	4	15	15	10	60	3 Hrs
3	IT1339	Lab: Computer Networks	0	0	2	2	1			40	60	
4	IT1330	Business Intelligence	4	0	0	4	4	15	15	10	60	3 Hrs
5	IT1331	Lab: Business Intelligence	0	0	2	2	1			40	60	
6	IT1318	Design & Analysis of Algorithms	3	1	0	4	4	15	15	10	60	3 Hrs
7	IT1332	Lab: Design & Analysis of Algorithms	0	0	2	2	1			40	60	
8	Professional Elective II		3	1	0	4	4	15	15	10	60	3 Hrs
	IT1311	PE II: Artificial Intelligence										
	IT1320	PE II: Digital Image Processing										
	IT1308	PE II: Mobile Communication										
	IT1333	PE II: Information Systems										
IT1334	PE II: Internet of Things											
IT1335	PE II: Distributed and Object Oriented Databases											
9	Open Elective II		3	0	0	3	3	15	15	10	60	3 Hrs
	IT1336	OE II: Introduction to E-Commerce										
	IT1337	OE II: Information Security										
10	IT1324	Mini Project	0	0	2	2	1			100		
Total			19	3	8	30	26					

Chairperson		Version	1.00	Applicable for AY 2016-17 Onwards
Dean (Acad. Matters)		Date of Release	May 2016	



Nagarjuna Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering

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

B.E. SCHEME OF EXAMINATION 2014

Information Technology

Sr. No.	Course Code	Course Title	CONTACT HOURS				Credits	% Weightage				ESE Duration Hrs.
			L	T	P	Total Contact		MSE-I	MSE-II	TA	ESE	

SEVENTH SEMESTER (Group "A")

1	IT1403	Principle of Compiler Design	3	1	0	4	4	15	15	10	60	3 Hrs
2	IT1404	Lab: Principle of Compiler Design	0	0	2	2	1			40	60	
3	IT1417	Network Programming	4	0	0	4	4	15	15	10	60	3 Hrs
4	IT1418	Lab: Network Programming	0	0	2	2	1			40	60	
5	IT1427	Data Mining	4	0	0	4	4	15	15	10	60	3 Hrs
6	IT1428	Lab: Data Mining	0	0	2	2	1			40	60	
7	IT1422	Network Security	3	0	0	3	3	15	15	10	60	3 Hrs
8	Professional Elective III		3	0	0	3	3	15	15	10	60	3 Hrs
	IT1407	PE III: Real Time Systems										
	IT1423	PE III: Human Computer Interaction										
	IT1429	PE III: Advanced Computer Architecture										
	IT1430	PE III: E-Commerce										
	IT1432	PE III: Cloud Computing										
IT1436	PE III: Coding Standard and Technical Documentation											
9	Professional Elective IV		3	0	0	3	3	15	15	10	60	3 Hrs
	IT1415	PE IV: Neural Networks & Fuzzy Logic										
	IT1405	PE IV: Pattern Recognition										
	IT1421	PE IV: Distributed Systems										
10	Lab: Professional Elective IV		0	0	2	2	1			40	60	
	IT1416	Lab: PE IV: Neural Networks & Fuzzy Logic										
	IT1439	Lab: PE IV: Pattern Recognition										
	IT1440	Lab: PE IV: Distributed Systems										
Total			20	1	8	29	25					

SEVENTH SEMESTER (Group "B")

1	IT1424	Industrial Project (Industry Visit / Training / Seminar)	0	0	30	30	20			40	60	
2	IT1425	Comprehensive V i v a - V o c e	0	0	0	0	3				100	
3	IT1426	Extra Curricular Activities	0	0	0	0	2			100		
Total			0	0	30	30	25					
Total Group(A+B)			20	1	38	59	50					

Chairperson		Version	1.02	Applicable for AY 2018-19 Onwards
Dean (Acad. Matters)		Date of Release	September 2017	



Nagarikuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering

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

B.E. SCHEME OF EXAMINATION 2014

Information Technology

Sr. No.	Course Code	Course Title	CONTACT HOURS				Credits	% Weightage				ESE Duration Hrs.
			L	T	P	Total Contact		MSE-I	MSE-II	TA	ESE	
EIGHTH SEMESTER (Group "A")												
1	IT1424	Industrial Project (Industry Visit / Training / Seminar)	0	0	30	30	20			40	60	
2	IT1425	Comprehensive Viva-Voce	0	0	0	0	3				100	
3	IT1426	Extra Curricular Activities	0	0	0	0	2			100		
Total			0	0	30	30	25					

EIGHTH SEMESTER (Group "B")												
1	IT1403	Principle of Compiler Design	3	1	0	4	4	15	15	10	60	3 Hrs
2	IT1404	Lab: Principle of Compiler Design	0	0	2	2	1			40	60	
3	IT1417	Network Programming	4	0	0	4	4	15	15	10	60	3 Hrs
4	IT1418	Lab: Network Programming	0	0	2	2	1			40	60	
5	IT1427	Data Mining	4	0	0	4	4	15	15	10	60	3 Hrs
6	IT1428	Lab: Data Mining	0	0	2	2	1			40	60	
7	IT1422	Network Security	3	0	0	3	3	15	15	10	60	3 Hrs
Professional Elective III												
8	IT1407	PE III: Real Time Systems	3	0	0	3	3	15	15	10	60	3 Hrs
	IT1423	PE III: Human Computer Interaction										
	IT1429	PE III: Advanced Computer Architecture										
	IT1430	PE III: E-Commerce										
	IT1432	PE III: Cloud Computing										
IT1436	PE III: Coding Standard and Technical Documentation											
Professional Elective IV												
9	IT1415	PE IV: Neural Networks & Fuzzy Logic	3	0	0	3	3	15	15	10	60	3 Hrs
	IT1405	PE IV: Pattern Recognition										
	IT1421	PE IV: Distributed Systems										
Lab: Professional Elective IV												
10	IT1416	Lab: PE IV: Neural Networks & Fuzzy Logic	0	0	2	2	1			40	60	
	IT1439	Lab: PE IV: Pattern Recognition										
	IT1440	Lab: PE IV: Distributed Systems										
Total			20	1	8	29	25					
Total Group(A+B)			20	1	38	59	50					

Chairperson		Version	1.02	Applicable for AY 2018-19 Onwards
Dean (Acad. Matters)		Date of Release	September 2017	

Dean (Acad)
 Yeshwantrao Chavan
 College of Engineering
 Wansongli Hingna Road
 NAGPUR - 441 110



PRINCIPAL
 Yeshwantrao Chavan
 College of Engineering
 Wansongli Hingna Road
 NAGPUR - 441110



B.E. SCHEME OF EXAMINATION 2018-19
 (Revised Scheme of Examination w.e.f. 2020-21 onward)

First Year BE

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
First Semester Group "A"														
1	1	BS	GE2101	Engineering Mathematics I	T	3	1	0	4	4	30	30	40	3
2	1	BS	GE2105	Engineering Physics	T	4	0	0	4	4	30	30	40	3
3	1	BS	GE2106	Lab.: Engineering Physics	P	0	0	2	2	1		60	40	
4	1	HS	GE2107	Communications Skills	T	3	0	0	3	3	30	30	40	3
5	1	BES	CV2101	Engineering Mechanics	T	3	1	0	4	4	30	30	40	3
6	1	BES	CV2102	Lab.: Engineering Mechanics	P	0	0	2	2	1		60	40	
7	1	BES	IT2101	Introduction to Computer Programming	T	3	1	0	4	4	30	30	40	3
8	1	BES	IT2102	Lab.: Introduction to Computer Programming	P	0	0	2	2	1		100		
9	1	BES	ME2103	Workshop Practice	P	0	0	2	2	1		60	40	
TOTAL						16	3	8	27	23				

First Semester Group "B"														
1	1	BS	GE2102	Engineering Mathematics II	T	3	1	0	4	4	30	30	40	3
2	1	BS	GE2103	Engineering Chemistry	T	4	0	0	4	4	30	30	40	3
3	1	BS	GE2104	Lab.: Engineering Chemistry	P	0	0	2	2	1		60	40	
4	1	HS	GE2108	Social Sciences	T	3	0	0	3	3	30	30	40	3
5	1	BES	EL2101	Electrical Engineering	T	3	1	0	4	4	30	30	40	3
6	1	BES	EL2102	Lab.: Electrical Engineering	P	0	0	2	2	1		60	40	
7	1	BES	ME2101	Engineering Graphics	T	1	0	0	1	1	30	30	40	3
8	1	BES	ME2102	Lab.: Engineering Graphics	P	0	0	4	4	2		100		
9	1	BES	EE2101	Basic Electronics	T	3	1	0	4	4	30	30	40	3
TOTAL						17	3	8	28	24				

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

TA – for Theory : 20 marks on lecture quizzes, 8 marks on assignments, 2 marks on class performance

TA – for Practical : MSPA will be 15 marks each

 Chairperson	 Dean (Acad. Matters)	June 2020 Date of Release	1.02 Version	Applicable for AY 2020-21 Onwards
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Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering
 (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

**SoE No.
FY-201**

B.E. SCHEME OF EXAMINATION 2018-19
 (Revised Scheme of Examination w.e.f. 2020-21 onward)

First Year BE

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
						1	2	BS	GE2102		Engineering Mathematics II	T	3	
2	2	BS	GE2103	Engineering Chemistry	T	4	0	0	4	4	30	30	40	3
3	2	BS	GE2107	Lab.: Engineering Chemistry	P	0	0	2	2	1		60	40	
4	2	HS	GE2108	Social Sciences	T	3	0	0	3	3	30	30	40	3
5	2	BES	EL2101	Electrical Engineering	T	3	1	0	4	4	30	30	40	3
6	2	BES	EL2102	Lab.: Electrical Engineering	P	0	0	2	2	1		60	40	
7	2	BES	ME2101	Engineering Graphics	T	1	0	0	1	1	30	30	40	3
8	2	BES	ME2102	Lab.: Engineering Graphics	P	0	0	4	4	2		100		
9	2	BES	EE2101	Basic Electronics	T	3	1	0	4	4	30	30	40	3
TOTAL						17	3	8	28	24				

Second Semester Group "B"														
1	2	BS	GE2101	Engineering Mathematics I	T	3	1	0	4	4	30	30	40	3
2	2	BS	GE2105	Engineering Physics	T	4	0	0	4	4	30	30	40	3
3	2	BS	GE2106	Lab.: Engineering Physics	P	0	0	2	2	1		60	40	
4	2	HS	GE2107	Communications Skills	T	3	0	0	3	3	30	30	40	3
5	2	BES	CV2101	Engineering Mechanics	T	3	1	0	4	4	30	30	40	3
6	2	BES	CV2102	Lab.: Engineering Mechanics	P	0	0	2	2	1		60	40	
7	2	BES	IT2101	Introduction to Computer Programing	T	3	1	0	4	4	30	30	40	3
8	2	BES	IT2102	Lab.: Introduction to Computer Programing	P	0	0	2	2	1		100		
9	2	BES	ME2103	Workshop Practice	P	0	0	2	2	1		60	40	
TOTAL						16	3	8	27	23				

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

TA – for Theory : 20 marks on lecture quizzes, 8 marks on assignments, 2 marks on class performance

TA – for Practical : MSPA will be 15 marks each

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



B.E. SCHEME OF EXAMINATION 2018-19
 (Revised Scheme of Examination w.e.f. 2020-21 onward)

Civil Engineering

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

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

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

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

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

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



B.E. SCHEME OF EXAMINATION 2018-19
(Revised Scheme of Examination w.e.f. 2020-21 onward)

Civil Engineering

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

Professional Elective - I

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

Open Electives -I

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

Open Electives -II

1	5	OE-II	CV2341	OE II : Elements of Earthquake Engineering
2	5	OE-II	CV2342	OE II : Introduction to Finite Element Method
3	5	OE-II	CV2343	OE II : Air Pollution and Solid Waste Management
4	5	OE-II	CV2344	OE-II : Environmental & Social Impact Assessment
5	5	OE-II	CV2345	OE II : Disaster Management
5	5	OE-II	CV2346	OE II : PE-II SOLID WASTE MANAGEMENT TECHNIQUES

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

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



B.E. SCHEME OF EXAMINATION 2018-19
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Civil Engineering

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

Audit Courses														
1	6	IT	IT1121	Industrial Programmin Language	A	3	0	0	3	0				

Professional Elective - II

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

Open Electives -III

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

Open Electives -IV

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

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

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

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



B.E. SCHEME OF EXAMINATION 2018-19
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Civil Engineering

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

Professional Elective - III

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

Professional Elective - IV

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

Professional Elective - V

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

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

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

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



B.E. SCHEME OF EXAMINATION 2018-19
(Revised Scheme of Examination w.e.f. 2020-21 onward)

Civil Engineering

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

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

TA ** = for Theory : 20 marks on lecture quizzes, 8 marks on assignments, 2 marks on class performance

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

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Chairperson	Dean (Acad. Matters)	Date of Release	Version	



B.E. SCHEME OF EXAMINATION 2018-19
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Mechanical Engineering

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

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

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

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

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



B.E. SCHEME OF EXAMINATION 2018-19
(Revised Scheme of Examination w.e.f. 2020-21 onward)

Mechanical Engineering

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

Open Electives -I

1	5	OE-I	ME2331	OE I : Operations Research Techniques
2	5	OE-I	ME2332	OE I : Automobile Engineering
3	5	OE-I	ME2333	OE I : Control System Engineering
4	5	OE-I	ME2334	OEI: Robotics and Subtractive Manufacturing

Open Electives -II

4	5	OE-II	ME2341	OE II : Total Quality Management
5	5	OE-II	ME2342	OE II : Reliability Engineering
6	5	OE-II	ME2343	OE II : Power Generation Engineering
7	5	OE-II	ME2344	OE II : Project Evaluation & Management

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

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

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B.E. SCHEME OF EXAMINATION 2018-19
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Mechanical Engineering

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

* Refere list Open Elective- I & II

** Refere list Open Elective- III & IV

Audit Courses														
1	6	IT	IT1121	Industrial Programmin Language	A	3	0	0	3	0				

List of Professional Electives-I

1	6	PE-I	ME2361	PE I : Finite Element Methods
	6	PE-I	ME2362	PE I : Lab:- Finite Element Methods
2	6	PE-I	ME2363	PE I : Industrial Fluid Power
	6	PE-I	ME2364	PE I : Lab:- Industrial Fluid Power
3	6	PE-I	ME2365	PE I : I.C. Engines
	6	PE-I	ME2366	PE I : Lab:- I.C. Engines
4	6	PE-I	ME2367	PE I : Refrigeration & Cryogenics
	6	PE-I	ME2368	PE I : Lab:- Refrigeration & Cryogenics
5	6	PE-I	ME2369	PE I : Computer Integrated Manufacturing
	6	PE-I	ME2370	PE I : Lab:- Computer Integrated Manufacturing
6	6	PE-I	ME2371	PE I : Mechatronics
	6	PE-I	ME2372	PE I : Lab:- Mechatronics
	6	PE-I	ME2373	PE I : Thermal Engineering Systems
	6	PE-I	ME2374	PE I : Lab:Thermal Engineering Systems

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

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

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Mechanical Engineering

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

Professional Electives -II

1	7	PE-II	ME2411	PE II : Tool Design
2	7	PE-II	ME2412	PE II : Rapid Prototyping
3	7	PE-II	ME2413	PE II : Fuel Cell Technology
4	7	PE-II	ME2414	PE II : Energy Management
5	7	PE-II	ME2415	PE II : Material Handling Systems
6	7	PE-II	ME2416	PE II : Reliability Engineering
7	7	PE-II	ME2417	PE II : Advanced Manufacturing Techniques
8	7	PE-II	ME2418	PE II : Optimization Techniques

Professional Electives -III

9	7	PE-III	ME2421	PE III : Vibration
10	7	PE-III	ME2422	PE III : Lab:- Vibration
11	7	PE-III	ME2423	PE III : Machine Tool Design
12	7	PE-III	ME2424	PE III : Lab:- Machine Tool Design
13	7	PE-III	ME2425	PE III : Industrial Fluid Power
14	7	PE-III	ME2426	PE III : Lab:- Industrial Fluid Power
15	7	PE-III	ME2427	PE III : Vehicle Engineering
16	7	PE-III	ME2428	PE III : Lab:- Vehicle Engineering
17	7	PE-III	ME2429	PE III : Solar Energy and It'S Utilisation
18	7	PE-III	ME2430	PE III : Lab:- Solar Energy and It'S Utilisation
19	7	PE-III	ME2431	PE III : CNC & Robotics
20	7	PE-III	ME2432	PE III : Lab:- CNC & Robotics
21	7	PE-III	ME2433	PE III : DBMS
22	7	PE-III	ME2434	PE III : Lab:- DBMS
23	7	PE-III	ME2435	PE III : Advanced Welding Techniques
24	7	PE-III	ME2436	PE III : Lab:- Advanced Welding Techniques

Professional Electives -IV

25	7	PE-IV	ME2441	PE IV : Synthesis of Mechanism
26	7	PE-IV	ME2442	PE IV : Design for Manufacturing & Assembly
27	7	PE-IV	ME2443	PE IV : Renewable Energy System
28	7	PE-IV	ME2444	PE IV : Engineering of Plastics
29	7	PE-IV	ME2445	PE IV : Finance & Cost Management
30	7	PE-IV	ME2446	PE IV : Artificial Intelligence
31	7	PE-IV	ME2447	PE IV : Maintenance Management
32	7	PE-IV	ME2448	PE IV : TQM
33	7	PE-IV	ME2449	PE IV : Project Evaluation & Management
34	7	PE-V	ME2461	PE V : Stress Analysis
35	7	PE-V	ME2462	PE V : Product Design and Development
36	7	PE-V	ME2463	PE V : Power Plant Engineering
37	7	PE-V	ME2464	PE V : Air Conditioning
38	7	PE-V	ME2465	PE V : Value Engineering
39	7	PE-V	ME2466	PE V : Design of Experiments and Taguchi Methods
40	7	PE-V	ME2467	PE V : Industrial Safety
41	7	PE-V	ME2468	PE V : Control System Engineering
42	7	PE-V	ME2469	PE V : Tribology
43	7	PE-V	ME2465	PE V : Value Engineering
44	7	PE-V	ME2466	PE V : Design of Experiments and Taguchi Methods
45	7	PE-V	ME2467	PE V : Industrial Safety
46	7	PE-V	ME2468	PE V : Control System Engineering
47	7	PE-V	ME2469	PE V : Tribology

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

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

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Mechanical Engineering

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

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B.E. SCHEME OF EXAMINATION 2018-19
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Electrical Engineering

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

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

List of Audit Courses

1	3	HS	GE2121	Env Studies for 3 Sem. EL,ET,CT	A	3	0	0	3	0				
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Electrical Engineering

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

Audit Courses

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

1	5	OE	EL2311	OEI:Renewable Energy Generation System
2	5	OE	EL2312	OEI:Electrical Machines and their Applications
3	5	OE	EL2313	OEI:Testing and Maintenance of Electrical Machines

Open Electives -II

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

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

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Electrical Engineering

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

Professional Electives -I

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

Open Electives -III

6	6	OE	EL2371	OEIII:Renewable Energy Generation System
7	6	OE	EL2372	OEIII:Electrical Machines and their Applications
8	6	OE	EL2373	OEIII:Testing and Maintenance of Electrical Machines

Open Electives -IV

9	6	OE	EL2381	OEIV:Electrical Energy Audit and Safety
10	6	OE	EL2382	OEIV:Utilization of Electrical Energy
11	6	OE	EL2383	OEIV:Power System Engineering

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

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Electrical Engineering

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

Professional Electives -II

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

Professional Electives -III

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

Professional Electives -IV

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

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

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Electrical Engineering

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

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

TA ** = for Theory : 20 marks on lecture quizzes, 8 marks on assignments, 2 marks on class performance

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

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B.E. SCHEME OF EXAMINATION 2018-19
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Electronics Engineering

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
TOTAL FIRST & SECOND SEM										47				
Third Semester														
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	
TOTAL						15	1	8	24	20				

Fourth Semester														
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	
TOTAL						15	1	8	24	20				

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

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

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B.E. SCHEME OF EXAMINATION 2018-19

(Revised Scheme of Examination w.e.f. 2020-21 onward)

Electronics Engineering

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

List of Audit Courses

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

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

Open Electives -I

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

Open Electives -II

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

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

TA ** = for Theory : 20 marks on lecture quizzes, 8 marks on assignments, 2 marks on class performance

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

		June 2020	1.02	Applicable for AY 2020-21 Onwards
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Electronics Engineering

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Sixth Semester														
1	6	HS	GE2312	Fundamental of Economics	T	3	0	0	3	3	30	30	40	3 Hours
2	6	PC	EE2351	Control System Engineering	T	3	0	0	3	3	30	30	40	3 Hours
3	6	PC	EE2352	Transmission Lines and Waveguides	P	0	0	2	2	1		60	40	
4	6	PC	EE2353	Digital Communication	T	3	0	0	3	3	30	30	40	3 Hours
5	6	PC	EE2354	Lab: Digital Communication	T	3	0	0	3	3	30	30	40	3 Hours
7	6	PE		Professional Elective-II	T	3	0	0	3	3	30	30	40	3 Hours
8	6	PE		Lab.: Professional Elective-II	P	0	0	2	2	1		60	40	
9	6	OE		Open Elective - III **	T	3	0	0	3	3	30	30	40	3 Hours
10	6	OE		Open Elective - IV **	T	3	0	0	3	3	30	30	40	3 Hours
TOTAL						21	0	4	25	23				

Professional Electives -II

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

Open Electives -III

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

Open Electives -IV

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

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

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Seventh Semester				



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Electronics Engineering

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

Professional Electives -III

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

Professional Electives -IV

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

Professional Electives -V

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

Professional Electives -VI

1	7	PE-VI	EE2441	PE-VI: E-Commerce and Data Analytics
2	7	PE-VI	EE2442	PE-VI: MEMS
3	7	PE-VI	EE2443	PE-VI: Biomedical Instrumentation
4	7	PE-VI	EE2444	PE-VI: Computer Organization

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

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Eighth Semester				



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Electronics Engineering

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

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

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Electronics & Telecommunication Engineering

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
TOTAL FIRST & SECOND SEM										47				
Third Semester														
1	3	BS	GE2201	Engineering Mathematics III	T	3	0	0	3	3	30	30	40	3 Hours
2	3	PC	ET2201	Electronic Devices and Circuits	T	3	1	0	4	4	30	30	40	3 Hours
3	3	PC	ET2202	Lab: Electronic Devices and Circuits	P	0	0	2	2	1		60	40	
4	3	PC	ET2203	Digital Circuits and Fundamentals of Microprocessor.	T	3	0	0	3	3	30	30	40	3 Hours
5	3	PC	ET2204	Lab: Digital Circuits and Fundamentals of Microprocessor.	P	0	0	2	2	1		60	40	
6	3	PC	ET2205	Electronic Measurement and Instrumentation	T	3	0	0	3	3	30	30	40	3 Hours
7	3	PC	ET2206	Lab: Electronic Measurement and Instrumentation	P	0	0	2	2	1		60	40	
8	3	PC	ET2207	Network Analysis	T	3	0	0	3	3	30	30	40	3 Hours
TOTAL THIRD SEM						15	1	6	22	19				

Fourth Semster														
1	4	BS	GE2204	Advance Mathematical Techniques	T	3	0	0	3	3	30	30	40	3 Hours
2	4	PC	ET2251	Electromagnetic Fields	T	3	1	0	4	4	30	30	40	3 Hours
3	4	PC	ET2252	Microcontroller and Interfacing	T	3	0	0	3	3	30	30	40	3 Hours
4	4	PC	ET2253	Lab: Microcontroller and Interfacing	P	0	0	2	2	1		60	40	
5	4	PC	ET2254	Analog Communication	T	3	0	0	3	3	30	30	40	3 Hours
6	4	PC	ET2255	Lab: Analog Communication	P	0	0	2	2	1		60	40	
7	4	PC	ET2256	Control Systems	T	3	0	0	3	3	30	30	40	3 Hours
8	4	PC	ET2257	Lab.: Control Systems	P	0	0	2	2	1		60	40	
TOTAL FOURTH SEM						15	1	6	22	19				

List of Audit Courses														
1	3	HS	GE2121	Env Studies for 3 Sem. EL,ET,CT	A	3	0	0	3	0				

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

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Electronics & Telecommunication Engineering

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Fifth Semester														
1	5	HS	GE2312	Fundamental of Economics	T	3	0	0	3	3	30	30	40	3 Hours
2	5	PC	ET2301	Analog Integrated circuits	T	3	0	0	3	3	30	30	40	3 Hours
3	5	PC	ET2302	Lab: Analog Integrated circuits	P	0	0	2	2	1		60	40	
4	5	PC	ET2303	Fields & Radiating Systems	T	3	1	0	4	4	30	30	40	3 Hours
5	5	PC	ET2304	Signals & Systems	T	3	0	0	3	3	30	30	40	3 Hours
6	5	PC	ET2305	Lab. :Signals & Systems	P	0	0	2	2	1		60	40	
7	5	OE		Open Elective - I *	T	3	0	0	3	3	30	30	40	3 Hours
8	5	OE		Open Elective - II *	T	3	0	0	3	3	30	30	40	3 Hours
9	5		ET2306	Lab.: Electronics Workshop	P	0	0	2	2	1		60	40	
10	5/6	STR	ET2310	Industry Visit and Its report	P	0	0	0	0	1		100		
TOTAL FIFTH SEM						18	1	6	25	23				

Audit Courses														
1	5	IT	IT1121	Industrial Programmin Language	A	3	0	0	3	0				

Open Electives -I

1	5	OE 1	ET2311	OE I : Microcontroller & Embedded Systems
2	5	OE 1	ET2312	OE I : Principles of Communication Engineering
3	5	OE 1	ET2313	OE I : Fundamentals of Image Processing

Open Electives -II

4	5	OE 2	ET2321	OE II : Soft computing
5	5	OE 2	ET2322	OE II : Industrial Instrumentation
6	5	OE 2	ET2323	OE II : Medical Electronics
7	5	OE 2	ET2324	OE II : Display Technology & Applications
7	5	OE 2	ET2325	OE II : PLCs and SCADA

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

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

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Electronics & Telecommunication Engineering

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Sixth Semester														
1	6	HS	GE2311	Fundamental of Management	T	3	0	0	3	3	30	30	40	3 Hours
2	6	PC	ET2351	Digital Signal Processing	T	3	0	0	3	3	30	30	40	3 Hours
3	6	PC	ET2352	Lab: Digital Signal Processing	P	0	0	2	2	1		60	40	
4	6	PE		Professional Elective I	T	3	0	0	3	3	30	30	40	3 Hours
5	6	PE		Lab. : Professional Elective I	P	0	0	2	2	1		60	40	
6	6	PE		Professional Elective II	T	3	0	0	3	3	30	30	40	3 Hours
7	6	PE		Lab. : Professional Elective II	P	0	0	2	2	1		60	40	
8	6	OE		Open Elective - III **	T	3	0	0	3	3	30	30	40	3 Hours
9	6	OE		Open Elective - IV **	T	3	0	0	3	3	30	30	40	3 Hours
TOTAL SIXTH SEM						18	0	6	24	21				

Professional Electives -I

1	6	PE I	ET2361	PE I : Object Oriented Programming
2	6	PE I	ET2362	PE I : Lab. Object Oriented Programming
3	6	PE I	ET2363	PE I : Discrete Structures
4	6	PE I	ET2364	PE I : Lab. Discrete Structures
5	6	PE I	ET2365	PE I : Microprocessors and Peripherals
6	6	PE I	ET2366	PE I : Lab. Microprocessors and Peripherals
7	6	PE I	ET2367	PE I : Electronic Instrumentation
8	6	PE I	ET2368	PE I :Lab Electronic Instrumentation
9	6	PE I	ET2371	PE I : Fundamentals of Computing
10	6	PE I	ET2372	PE I : Lab Fundamentals of Computing
11	6	PE I	ET2373	PE I : Algorithms and data structures
12	6	PE I	ET2374	PE I :Lab Algorithms and data structures

Professional Electives -II

1	6	PE II	ET2377	PE II : Antenna Theory & Design
2	6	PE II	ET2378	PE II : Lab. Antenna Theory & Design
3	6	PE II	ET2379	PE II : Digital system Design
4	6	PE II	ET2380	PE II : Lab. Digital system Design
5	6	PE II	ET2381	PE II : Internet of Things (IoT)
6	6	PE II	ET2382	PE II : Lab. Internet of Things (IoT)
7	6	PE II	ET2383	PE II : Optical Communication
8	6	PE II	ET2384	PE II : Lab. Optical Communication
9	6	PE II	ET2385	PE II :Principles of image processing
10	6	PE II	ET2386	PE II : Lab. Principles of image processing
11	6	PE II	ET2387	PE II : TV & Video Engineering
12	6	PE II	ET2388	PE II : Lab. TV & Video Engineering

Open Electives -III

1	6	OE 3	ET2391	OE III : Microcontroller & Embedded Systems
2	6	OE 3	ET2392	OE III : Principles of Communication Engineering
3	6	OE 3	ET2393	OE III : Fundamentals of Image Processing

Open Electives -IV

4	6	OE 4	ET2396	OE IV : Soft computing
5	6	OE 4	ET2397	OE IV : Industrial Instrumentation
6	6	OE 4	ET2398	OE IV : Medical Electronics
7	6	OE 4	ET2399	OE IV : Display Technology & Applications
7	6	OE 4	ET2400	OE IV : PLCs & SCADA

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

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						L	T	P	Hrs		MSEs*	TA**	ESE	
Seventh Semester														
1	7	PC	ET2401	RF & Microwave	T	3	0	0	3	3	30	30	40	3 Hours
2	7	PC	ET2402	Lab: RF & Microwave	P	0	0	2	2	1		60	40	
3	7	PC	ET2403	Digital Communication	T	3	0	0	3	3	30	30	40	3 Hours
4	7	PC	ET2405	Lab: Digital Communication	P	0	0	2	2	1		60	40	
5	7	PE		Professional Elective III	T	3	0	0	3	3	30	30	40	3 Hours
6	7	PE		Professional Elective IV	T	3	0	0	3	3	30	30	40	3 Hours
7	7	PE		Professional Elective V	T	3	0	0	3	3	30	30	40	3 Hours
8	7	PE		Professional Elective VI	T	3	0	0	3	3	30	30	40	3 Hours
9	7	STR	ET2409	Mini Project	P	0	0	4	4	2		100		
10	7	STR	ET2410	Campus Recruitment Training (CRT)	P	0	0	0	0	2		100		
TOTAL SEVENTH SEM						18	0	8	26	24				

Professional Electives -III

1	7	PE	ET2411	PE III : Power Electronics
2	7	PE	ET2412	PE III : Data Compression & Encryption
3	7	PE	ET2413	PE III : Analog VLSI
4	7	PE	ET2414	PE III : Error Correcting Codes
5	7	PE	ET2415	PE III : Wireless Mobile Communication Systems

Professional Electives -IV

6	7	PE	ET2421	PE IV : Satellite Communication & RADAR Engineering
7	7	PE	ET2422	PE IV : Embedded System
8	7	PE	ET2423	PE IV : Switching Theory
9	7	PE	ET2424	PE IV : Topics in Machine Learning
10	7	PE	ET2425	PE IV : Multimedia Communications

Professional Electives -V

11	7	PE	ET2431	PE V : Display Technology
12	7	PE	ET2432	PE V : Biomedical Instrumentation
13	7	PE	ET2433	PE V : Fuzzy Logic & Neural Network
14	7	PE	ET2434	PE V : Wireless Sensor Networks
15	7	PE	ET2435	PE V : RF Circuit Design

Professional Electives -VI

16	7	PE	ET2441	PE VI : CMOS VLSI Design
17	7	PE	ET2442	PE VI : Digital Image Analysis for Remote Sensing
18	7	PE	ET2443	PE VI : Microwave Integrated circuits
19	7	PE	ET2444	PE VI : Communication Networks
20	7	PE	ET2445	PE VI : Computer Architecture and Organization
20	7	PE	ET2446	PE VI : PLCs & SCADA

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

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Electronics & Telecommunication Engineering

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Eigth Semester														
2	8	STR	ET2451	Major Project	P	0	0	12	12	9		60	40	
3	8	STR	ET2452	Extra curricular Activity Evaluation	P	0	0	0	0	1		100		
TOTAL EIGHTH SEM						0	0	12	12	10				
GRAND TOTAL						84	3	44	131	163				

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

TA ** = for Theory : 20 marks on lecture quizzes, 8 marks on assignments, 2 marks on class performance

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

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Computer Technology

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
TOTAL FIRST & SECOND SEM										47				
Third Semester														
1	3	BS	GE2201	Engineering Mathematics III	T	3	0	0	3	3	30	30	40	3 Hours
2	3	PC	CT2201	Computer Architecture & Organisation	T	4	0	0	4	4	30	30	40	3 Hours
3	3	PC	CT2202	Object Oriented Programming	T	3	0	0	3	3	30	30	40	3 Hours
4	3	PC	CT2203	Lab: Object Oriented Programming	P	0	0	2	2	1		60	40	
5	3	PC	CT2204	Data Structures	T	4	0	0	4	4	30	30	40	3 Hours
6	3	PC	CT2205	Lab: Data Structures	P	0	0	2	2	1		60	40	
7	3	PC	CT2206	Lab: Python Programming	P	0	0	2	2	1		60	40	
8	3	PC	CT2207	Lab: Web Technology	P	0	0	2	2	1		60	40	
TOTAL						14	0	8	22	18				

Fourth Semester														
1	4	BS	GE2206	Discrete Mathematics and Probability Theory	T	3	0	0	3	3	30	30	40	3 Hours
2	4	PC	CT2251	Operating Systems	T	3	0	0	3	3	30	30	40	3 Hours
3	4	PC	CT2252	Lab: Operating Systems	P	0	0	2	2	1		60	40	
4	4	PC	CT2253	Advanced Data Structures	T	4	0	0	4	4	30	30	40	3 Hours
5	4	PC	CT2254	Lab: Advanced Data Structures	P	0	0	2	2	1		60	40	
6	4	PC	CT2255	Mathematical Foundations for Data Analysis	T	3	0	0	3	3	30	30	40	3 Hours
7	4	PC	CT2256	Lab: Mathematical Foundations for Data Analysis	P	0	0	2	2	1		60	40	
8	4	PC	CT2257	Database Management Systems	T	3	0	0	3	3	30	30	40	3 Hours
9	4	PC	CT2258	Lab: Database Management Systems	P	0	0	2	2	1		60	40	
TOTAL						16	0	8	24	20				

Audit Courses														
1	3	HS	GE2121	Env Studies for 3 Sem. EL,ET,CT	A	3	0	0	3	0				

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

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B.E. SCHEME OF EXAMINATION 2018-19
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Computer Technology

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Fifth Semester														
1	5	HS	GE2312	Fundamentals of Economics	T	3	0	0	3	3	30	30	40	3 Hours
2	5	PC	CT2301	Computer Networks	T	3	0	0	3	3	30	30	40	3 Hours
3	5	PC	CT2302	Lab: Computer Networks	P	0	0	2	2	1		60	40	
4	5	PC	CT2303	Theoretical Foundations of Computer Science	T	4	0	0	4	4	30	30	40	3 Hours
5	5	PE		Professional Elective-I	T	3	0	0	3	3	30	30	40	3 Hours
6	5	PE		Lab: Professional Elective-I	P	0	0	2	2	1		60	40	
7	5	OE		Open Elective - I *	T	3	0	0	3	3	30	30	40	3 Hours
8	5	OE		Open Elective - II *	T	3	0	0	3	3	30	30	40	3 Hours
9	5/6	STR	CT2310	IND VISIT and its report	P	0	0	0	0	1		100		
TOTAL						19	0	4	23	22				

Professional Electives -I

1	5	PE-I	CT2311	PE I: Randomized Algorithm
	5	PE-I	CT2312	PE I: Lab: Randomized Algorithm
2	5	PE-I	CT2313	PE I: Mobile Operating System
	5	PE-I	CT2314	PE I: Lab: Mobile Operating System
3	5	PE-I	CT2315	PE I: Advanced Web Technologies
	5	PE-I	CT2316	PE I: Lab: Advanced Web Technologies
4	5	PE-I	CT2317	PE I: Introduction to Geographical Information System
	5	PE-I	CT2318	PE I: Lab: Introduction to Geographical Information System
5	5	PE-I	CT2319	PE I: Computer Graphics
	5	PE-I	CT2320	PE I: Lab: Computer Graphics
6	5	PE-I	CT2321	PE I: Realtime Systems
	5	PE-I	CT2322	PE I: Lab: Realtime Systems
7	5	PE-I	CT2323	PE I: Privacy and Security in Online Social Networks
	5	PE-I	CT2324	PE I: Lab: Privacy and Security in Online Social Networks

Open Electives -I

1	5	OE-I	CT2325	OE I: Introduction to DBMS
2	5	OE-I	CT2326	OE I: Essentials of IT
3	5	OE-I	CT2327	OE I: Image Processing
4	5	OE-I	CT2328	OE I: Operating System Concepts
5	5	OE-I	CT2329	OE-I Introduction to Salesforce

Open Electives -II

1	5	OE-II	CT2331	OE II: Soft Computing
2	5	OE-II	CT2332	OE II: Software Testing
3	5	OE-II	CT2333	OE II: Internet Technology
4	5	OE-II	CT2334	OE II: Multimedia and Animation
5	5	OE-II	CT2335	OE II: Current Trends and Technologies

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

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

<i>G. Golafakan</i>	<i>Anandapada</i>	June 2020	1.02	Applicable for AY 2020-21 Onwards
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Sixth Semester				



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Computer Technology

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
1	6	HS	GE2311	Fundamentals of Management	T	3	0	0	3	3	30	30	40	3 Hours
2	6	PC	CT2351	Design & Analysis of Algorithms	T	3	0	0	3	3	30	30	40	3 Hours
3	6	PC	CT2352	Lab: Design & Analysis of Algorithms	P	0	0	2	2	1		60	40	
4	6	PC	CT2353	Language Processor	T	3	0	0	3	3	30	30	40	3 Hours
5	6	PC	CT2354	Lab: Language Processor	P	0	0	2	2	1		60	40	
6	6	PC	CT2355	Software Engineering	T	3	0	0	3	3	30	30	40	3 Hours
7	6	PC	CT2356	Lab: Software Engineering	P	0	0	2	2	1		60	40	
8	6	PE		Professional Elective-II	T	3	0	0	3	3	30	30	40	3 Hours
9	6	PE		Lab: Professional Elective-II	P	0	0	2	2	1		60	40	
10	6	OE		Open Elective - III **	T	3	0	0	3	3	30	30	40	3 Hours
11	6	OE		Open Elective - IV **	T	3	0	0	3	3	30	30	40	3 Hours
TOTAL						21	0	8	29	25				

Professional Electives -II

1	6	PE-II	CT2361	PE II: Digital Image Processing
	6	PE-II	CT2362	PE II: Lab: Digital Image Processing
2	6	PE-II	CT2363	PE II: Internet of Things
	6	PE-II	CT2364	PE II: Lab: Internet of Things
3	6	PE-II	CT2365	PE II: Business Intelligence
	6	PE-II	CT2366	PE II: Lab: Business Intelligence
4	6	PE-II	CT2367	PE II: Introduction to Natural Language Processing
	6	PE-II	CT2368	PE II: Lab: Introduction to Natural Language Processing
5	6	PE-II	CT2369	PE II: Customer Relationship Management
	6	PE-II	CT2370	PE II: Lab: Customer Relationship Management

Open Electives -III

1	6	OE-III	CT2371	OE III: Introduction to DBMS
2	6	OE-III	CT2372	OE III: Essentials of IT
3	6	OE-III	CT2373	OE III: Image Processing
4	6	OE-III	CT2374	OE III: Operating System Concepts
5	6	OE-III	CT2375	OE III: Introduction to Salesforce

Open Electives -IV

1	6	OE-IV	CT2381	OE IV: Soft Computing
2	6	OE-IV	CT2382	OE IV: Software Testing
3	6	OE-IV	CT2383	OE IV: Internet Technology
4	6	OE-IV	CT2384	OE IV: Multimedia and Animation
5	6	OE-IV	CT2385	OE IV: Current Trends and Technologies

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Seventh Semester				



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Computer Technology

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
1	7	PC	CT2401	Artificial Intelligence	T	3	0	0	3	3	30	30	40	3 Hours
2	7	PC	CT2402	Lab: Artificial Intelligence	P	0	0	2	2	1		60	40	
3	7	PC	CT2403	Network Security	T	3	0	0	3	3	30	30	40	3 Hours
4	7	PE		Professional Elective-III	T	3	0	0	3	3	30	30	40	3 Hours
5	7	PE		Professional Elective-IV	T	3	0	0	3	3	30	30	40	3 Hours
6	7	PE		Lab: Professional Elective-IV	P	0	0	2	2	1		60	40	
7	7	PE		Professional Elective-V	T	3	0	0	3	3	30	30	40	3 Hours
8	7	STR	CT2409	Mini Project	P	0	0	4	4	2		100		
9	7	STR	CT2410	CRT	P	0	0	0	0	2		100		
TOTAL						15	0	8	23	21				

Professional Electives -III

1	7	PE-III	CT2411	PE III: Neural Network & Fuzzy Logic
2	7	PE-III	CT2412	PE III: Adhoc Wireless Network
3	7	PE-III	CT2413	PE III: Information Retrieval System
4	7	PE-III	CT2414	PE III: Human Computer Interaction

Professional Electives -IV

1	7	PE-IV	CT2421	PE IV: Pattern Recognition
	7	PE-IV	CT2422	PE IV: Lab: Pattern Recognition
2	7	PE-IV	CT2423	PE IV: Cyber Forensic
	7	PE-IV	CT2424	PE IV: Lab: Cyber Forensic
3	7	PE-IV	CT2425	PE IV: Machine Learning
	7	PE-IV	CT2426	PE IV: Lab: Machine Learning
4	7	PE-IV	CT2427	PE IV: Design Patterns
	7	PE-IV	CT2428	PE IV: Lab: Design Patterns
5	7	PE-IV	CT2429	PE IV: Mobile Communication
	7	PE-IV	CT2430	PE IV: Lab: Mobile Communication
6	7	PE-IV	CT2431	PE IV: Software Project Management
	7	PE-IV	CT2432	PE IV: Lab: Software Project Management
7	7	PE-IV	CT2433	PE IV: Numerical Computing
	7	PE-IV	CT2434	PE IV: Lab: Numerical Computing

Professional Electives -V

1	7	PE-V	CT2435	PE V: Cloud Computing
2	7	PE-V	CT2436	PE V: Parallel Programming
3	7	PE-V	CT2437	PE V: Data Mining
4	7	PE-V	CT2438	PE V: Embedded Systems
5	7	PE-V	CT2439	PE V: Operations Research

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

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

<i>G. Golapkar</i>		<i>Antyapat</i>		June 2020	1.02	Applicable for AY 2020-21 Onwards						
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Eighth Semester												
1	8	STR	CT2451	Major Project	P	0	0	12	12	9	60	40



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Computer Technology

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
2	8	STR	CT2452	Extra Curricular Activity Evaluation	P	0	0	0	0	1		100		
TOTAL						0	0	12	12	10				
GRAND TOTAL						85	0	48	133	163				

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Information Technology

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
TOTAL FIRST & SECOND SEM										47				
Third Semester														
1	3	BS	GE2201	Engineering Mathematics III	T	3	0	0	3	3	30	30	40	3
2	3	PC	IT2201	Digital Circuits & Microprocessors	T	3	0	0	3	3	30	30	40	3
3	3	PC	IT2202	Digital Circuits & Microprocessors Lab	P	0	0	2	2	1		60	40	
4	3	PC	IT2203	Object Oriented Programming	T	3	0	0	3	3	30	30	40	3
5	3	PC	IT2204	Object Oriented Programming Lab	P	0	0	2	2	1		60	40	
6	3	PC	IT2205	Data Structures and Program Design-I	T	4	0	0	4	4	30	30	40	3
7	3	PC	IT2206	Data Structures and Program Design-I Lab	P	0	0	2	2	1		60	40	
8	3	PC	IT2207	Computer Architecture & Organization (Self-Learning-Online)	T	3	0	0	3	3	30	30	40	3
9	3	PC	IT2208	Software Lab	P	0	0	2	2	1		60	40	
TOTAL THIRD SEM						16	0	8	24	20				

Fourth Semester														
1	4	BS	GE2206	Discrete Mathematics and Probability Theory	T	3	0	0	3	3	30	30	40	3
2	4	PC	IT2251	Data Structures and Program Design-II	T	3	0	0	3	3	30	30	40	3
3	4	PC	IT2252	Data Structures and Program Design-II Lab	P	0	0	2	2	1		60	40	
4	4	PC	IT2253	Computer Networks	T	4	0	0	4	4	30	30	40	3
5	4	PC	IT2254	Computer Networks Lab	P	0	0	2	2	1		60	40	
6	4	PC	IT2255	Operating Systems	T	3	0	0	3	3	30	30	40	3
7	4	PC	IT2256	Operating Systems Lab	P	0	0	2	2	1		60	40	
8	4	PC	IT2257	Theory of Computation	T	3	0	0	3	3		60	40	
TOTAL FOURTH SEM						16	0	6	22	19				

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

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Information Technology

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Fifth Semester														
1	5	HS	GE2312	Fundamental of Economics	T	3	0	0	3	3	30	30	40	3
2	5	PC	IT2301	Data Base Management Systems	T	3	0	0	3	3	30	30	40	3
3	5	PC	IT2302	Lab : Data Base Management Systems	P	0	0	2	2	1		60	40	
4	5	PC	IT2303	Software Engineering (Self-Learning-Online)	T	3	0	0	3	3	30	30	40	3
5	5	PE		Professional Elective -I	T	3	0	0	3	3	30	30	40	3
6	5	PE		Lab : Professional Elective-I	P	0	0	2	2	1		60	40	
7	5	OE		Open Elective-I	T	3	0	0	3	3	30	30	40	3
8	5	OE		Open Elective-II	T	3	0	0	3	3	30	30	40	3
9	5	STR	IT2310	Industrial Visit and Learning	P	0	0	0	0	1		100		
TOTAL FIFTH SEM						18	0	4	22	21				

Professional Electives -I

1	5	PE-1	IT2311	PE I: Web Programming
	5	PE-1	IT2312	PE I: Lab.: Web Programming
2	5	PE-1	IT2313	PE I: Data Analysis and Statistics
	5	PE-1	IT2314	PE I: Lab.: Data Analysis and Statistics
3	5	PE-1	IT2315	PE I: Customer Relationship Management
	5	PE-1	IT2316	PE I: Lab. Customer Relationship Management

Open Electives -I

1	5	OE-I	IT2321	OE I: Industry 4.0
2	5	OE-I	IT2322	OE I: Core JAVA

Open Electives -II

1	5	OE-II	IT2331	OE II: Introduction to Machine Learning
2	5	OE-II	IT2332	OE II: Information Security

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

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B.E. SCHEME OF EXAMINATION 2018-19
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Information Technology

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Sixth Semester														
1	6	HS	GE2311	Fundamentals of Management	T	3	0	0	3	3	30	30	40	3
2	6	PC	IT2351	Design & Analysis of Algorithms	T	3	0	0	3	3	30	30	40	3
3	6	PC	IT2352	Lab: Design & Analysis of Algorithms	P	0	0	2	2	1		60	40	
5	6	PC	IT2353	Principles of Compiler Design	T	3	0	0	3	3	30	30	40	3
6	6	PC	IT2354	Lab: Principles of Compiler Design	P	0	0	2	2	1		60	40	
7	6	PE		Professional Elective - II	T	3	0	0	3	3	30	30	40	3
8	6	PE		Lab : Professional Elective-II	P	0	0	2	2	1		60	40	
9	6	OE		Open Elective-III	T	3	0	0	3	3	30	30	40	3
10	6	OE		Open Elective-IV	T	3	0	0	3	3	30	30	40	3
TOTAL SIXTH SEM						18	0	6	24	21				

List of Professional Electives-I & II

Professional Electives -I

	6	PE-2	IT2361	PE II: Machine Learning
1	6	PE-2	IT2362	PE II: Machine Learning Lab
	6	PE-2	IT2363	PE II: Business Intelligence
2	6	PE-2	IT2364	PE II: Lab.: Business Intelligence
	6	PE-2	IT2365	PE II: Internet of Things
3	6	PE-2	IT2366	PE II: Lab.: Internet of Things

Open Electives -III

1	6	OE-III	IT2371	OE-III : Industry 4.0
2	6	OE-III	IT2372	OE-III : Core JAVA

Open Electives -IV

1	6	OE-IV	IT2381	OE-IV: Introduction to Machine Learning
2	6	OE-IV	IT2382	OE-IV: Information Security

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

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Information Technology

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Seventh Semester														
1	7	PC	IT2401	Data Mining	T	3	0	0	3	3	30	30	40	3
2	7	PC	IT2402	Data Mining Lab	P	0	0	2	2	1		60	40	
3	7	PC	IT2403	Principles of Artificial Intelligence	T	3	0	0	3	3	30	30	40	3
4	7	PE		Professional Elective III	T	3	0	0	3	3	30	30	40	3
5	7	PE		Professional Elective IV	T	3	0	0	3	3	30	30	40	3
6	7	PE		Lab.: Professional Elective IV	P	0	0	2	2	1		60	40	
7	7	PE		Professional Elective V	T	3	0	0	3	3	30	30	40	3
8	7	PE		Professional Elective VI	T	3	0	0	3	3	30	30	40	3
8	7	STR	IT2409	Mini Project	P	0	0	4	4	2		60	40	
9	7	STR	IT2410	Campus Recruitment Training (CRT)	P	0	0	0	0	2		100		
TOTAL SEVENTH SEM						18	0	8	26	24				

List of Professional Electives-III, IV, V & VI

Professional Electives - III				
1	7	PE-3	IT2411	PE III: Cloud Computing
2	7	PE-3	IT2412	PE III: Real Time Systems
3	7	PE-3	IT2413	PE III: Network Security
4	7	PE-3	IT2414	PE III: Information Retrieval
Professional Electives - IV				
1	7	PE-4	IT2421	PE IV: Neural Network and Fuzzy Logic
1	7	PE-4	IT2422	PE IV: Lab.: Neural Network and Fuzzy Logic
1	7	PE-4	IT2423	PE IV: Ethical Hacking and Cyber Forensics
2	7	PE-4	IT2424	PE IV: Lab: Ethical Hacking and Cyber Forensics
1	7	PE-4	IT2425	PE IV: Human Computer Interaction
3	7	PE-4	IT2426	PE IV: Lab: Human Computer Interaction
1	7	PE-4	IT2427	PE IV: Parallel Computing
4	7	PE-4	IT2428	PE IV: Lab: Parallel Computing
Professional Electives - V				
1	7	PE-5	IT2431	PE V: Digital Image Processing
2	7	PE-5	IT2432	PE V: Distributed Systems
3	7	PE-5	IT2433	PE V: Coding Standard and Technical Documentation
Professional Electives - VI				
1	7	PE-6	IT2441	PE VI: Advanced Computer Architecture
2	7	PE-6	IT2442	PE VI: Mobile Communication
3	7	PE-6	IT2443	PE VI: E-commerce
4	7	PE-6	IT2444	PE VI: Natural Language Processing

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

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

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

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Information Technology

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
Eighth Semester														
1	8	STR	IT2451	Major Project	P	0	0	12	12	9		60	40	
2	8	STR	IT2452	Extra curricular Activity Evaluation	P	0	0	0	0	1		100		
TOTAL EIGHTH SEM						0	0	12	12	10				
GRAND TOTAL						86	0	44	130	162				

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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**

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Dean (Acad)
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 NAGPUR - 441110



Nagar Yuwak Shikshan Sanstha's

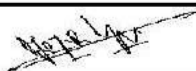

Yeshwantrao Chavan College of Engineering

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

M. Tech. SCHEME OF EXAMINATION 2014

Department of Civil Engineering

Structural Engineering

Sl. No.	Course Code	Course Title	Contact Hours				Credits	% Weightage				ESE Duration Hrs.
			L	T	P	Total Contact Hrs.		MSE-I	MSE-II	TA	ESE	
I SEMESTER												
1	CV1901	Numerical Methods	3	0	0	3	3	15	15	10	60	3
2	CV1902	Theory of Elasticity and Elastic Stability	3	0	0	3	3	15	15	10	60	3
3	CV1903	Structural Dynamics	3	0	0	3	3	15	15	10	60	3
4	CV1904	Lab: Structural Dynamics	0	0	2	2	1	40		60		
5	CV1905	Matrix Analysis of Structures	3	0	0	3	3	15	15	10	60	3
6	CV1906	Lab: Matrix Analysis of Structures	0	0	2	2	1	40		60		
7	CV1907	Design of Substructures	3	0	0	3	3	15	15	10	60	3
8	CV1908	Research Practice	0	0	2	2	1	100				
Total			15	0	6	21	18					
II SEMESTER												
1	CV1911	Finite Element Method	3	0	0	3	3	15	15	10	60	3
2	CV1912	Theory of Plates and Shells	3	0	0	3	3	15	15	10	60	3
3	CV1913	Earthquake and wind effects on Structures	3	0	0	3	3	15	15	10	60	3
4	Professional Elective-I											
	CV1914	Advanced Concrete Structures	3	0	0	3	3	15	15	10	60	3
	CV1915	Prestressed Concrete										
	CV1916	Composite Structures										
Professional Elective-II												
5	CV1917	Advanced Steel Structures	3	0	0	3	3	15	15	10	60	3
	CV1918	New Engineering Materials										
	CV1919	Smart Structures and Applications										
6	CV1920	Lab: Steel Design Studio	0	0	2	2	1	40		60		
7	CV1921	Lab: RCC Design Studio	0	0	2	2	1	40		60		
8	CV1922	Seminar	0	0	2	2	1	100				
Total			15	0	6	21	18					
III SEMESTER												
1	Professional Elective-III											
	CV1923	Tall Building	3	0	0	3	3	15	15	10	60	3
	CV1924	Design of Environmental Structures										
	CV1925	Bridge Engineering										
Professional Elective-IV												
2	CV1926	Plastic Analysis and Design of Structures	3	0	0	3	3	15	15	10	60	3
	CV1927	Seismic Analysis and Design of Structures										
	CV1928	Design of Industrial Structures										
3	CV1929	Project Phase-I	0	0	16	16	8	100				
Total			6	0	16	22	14					
IV SEMESTER												
1	CV1931	Project Phase- II	0	0	24	24	12	40		60		
Total			0	0	24	24	12					
Grand Total of Credits							62					
Chairperson 							Date of Release	May 2014	Applicable for			
Dean (Acad. Matt.) 							Version	1	AY 2014-15 Onwards			



Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

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

M. Tech. SCHEME OF EXAMINATION 2014

Department of Civil Engineering

Environmental Engineering

Sl. No.	Course Code	Course Title	Contact Hours				Total Contact Hrs.	Credits	% Weightage				ESE Duration Hrs.
			L	T	P	MSE-I			MSE-II	TA	ESE		
I SEMESTER													
1	GE1901	Computational Methods	3	0	0	3	3	15	15	10	60	3	
2	CV1951	Environmental Chemistry and Microbiology	3	0	0	3	3	15	15	10	60	3	
3	CV1952	Lab: Environmental Chemistry and Microbiology	0	0	2	2	1	40		60			
4	CV1953	Water Supply and Wastewater Collection	3	0	0	3	3	15	15	10	60	3	
5	CV1954	Municipal Water Treatment	3	0	0	3	3	15	15	10	60	3	
6	CV1955	Municipal Waste Water Treatment and Disposal	3	0	0	3	3	15	15	10	60	3	
7	CV1956	Seminar-I	0	0	2	2	1	100					
Total			15	0	4	19	17						
II SEMESTER													
1	CV1961	Industrial Waste Water Treatment and Disposal	3	0	0	3	3	15	15	10	60	3	
2	CV1962	Environmental Management	3	0	0	3	3	15	15	10	60	3	
3	CV1963	Air Quality Management	3	0	0	3	3	15	15	10	60	3	
4	CV1965	Lab: Air Quality Management	0	0	2	2	1	40		60			
5	CV1964	Municipal Solid Waste Management	3	0	0	3	3	15	15	10	60	3	
Professional Elective- I													
6	CV1967	Hazardous Waste Management	3	0	0	3	3	15	15	10	60	3	
	CV1968	Water Resource Management											
	CV1969	Advanced Water Treatment											
7	CV1966	Seminar II	0	0	2	2	1	100					
Total			15	0	4	19	17						
III SEMESTER													
Professional Elective- II													
1	CV1971	Environmental Modelling	3	0	0	3	3	15	15	10	60	3	
	CV1972	Rural Water Supply and Sanitation											
	CV1976	PE-II Remote Sensing And GIS In Water Resources And Environmental Engineering											
Professional Elective- III													
2	CV1973	Applied Structures	3	0	0	3	3	15	15	10	60	3	
	CV1974	Environmental Biotechnology											
3	CV1975	Project Phase - I	0	0	16	16	8	100					
Total			6	0	16	22	14						
IV SEMESTER													
1	CV1981	Project Phase - II	0	0	24	24	12	40		60			
Total			0	0	24	24	12						
Grand Total of Credits							60						
Chairperson							Date of Release	May 2015	Applicable for				
Dean (Acad. Matt.)							Version	1.01	AY 2015-16 Onwards				



Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

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

M. Tech. SCHEME OF EXAMINATION 2014

Department of Mechanical Engineering

CAD / CAM

Sl. No.	Course Code	Course Title	Contact Hours				Credits	% Weightage				ESE Duration Hrs.
			L	T	P	Total Contact Hrs.		MSE- I	MSE- II	TA	ESE	
I SEMESTER												
1	ME1901	Stress Analysis	3	0	0	3	3	15	15	10	60	3
2	ME1902	Computer Integrated Manufacturing	3	0	0	3	3	15	15	10	60	3
3	Professional Elective- I											
	ME1907	Project Engineering										
	ME1908	Tool Design	3	0	0	3	3	15	15	10	60	3
	ME1909	Object Oriented Programmings										
	ME1910	Reliability Engineering										
4	ME1903	Computer Graphics and Solid Modeling	3	0	0	3	3	15	15	10	60	3
5	ME1904	Lab: Computer Graphics and Solid Modeling	0	0	2	2	1			40	60	
6	ME1905	CNC Technologies	3	0	0	3	3	15	15	10	60	3
7	ME1906	Lab: CNC Technologies	0	0	2	2	1			40	60	
			15	0	4	19	17					
II SEMESTER												
1	ME1911	Robotics	3	0	0	3	3	15	15	10	60	3
2	ME1912	Modelling & Simulation	3	0	0	3	3	15	15	10	60	3
3	ME1913	Finite Element Method	3	0	0	3	3	15	15	10	60	3
4	ME1914	Lab: Finite Element Method	0	0	2	2	1			40	60	
5	ME1915	Artificial Intelligence	3	0	0	3	3	15	15	10	60	3
6	Professional Elective-II											
	ME1917	Product Data Management										
	ME1918	Mechatronics	3	0	0	3	3	15	15	10	60	3
	ME1919	Machine Tool Design										
	ME1920	Plant Design										
7	ME1916	Seminar	0	0	2	2	1			100		
			15	0	4	19	17					
III SEMESTER												
1	ME1921	Product Design & Development	3	0	0	3	3	15	15	10	60	3
2	Professional Elective - III											
	ME1923	Computational Fluid Dynamics										
	ME1924	Design Optimization Techniques	3	0	0	3	3	15	15	10	60	3
	ME1925	Rapid Prototyping										
	ME1926	Design for Manufacturing and Assembly										
3	ME1922	Project Phase -I	0	0	16	16	8			100		
			6	0	16	22	14					
IV SEMESTER												
1	ME1931	Project Phase-II	0	0	24	24	12			40	60	
			0	0	24	24	12					
Grand Total of Credits							60					
Chairperson						Date of Release			May 2014		Applicable for	
Dean (Acad. Matt.)						Version			1		AY 2014-15 Onwards	



Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

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

M. Tech. SCHEME OF EXAMINATION 2014 Department of Mechanical Engineering Production Engineering

Sl. No.	Course Code	Course Title	Contact Hours				Credits	% Weightage				ESE Duration Hrs.
			L	T	P	Total Contact Hrs.		MSE- I	MSE- II	TA	ESE	
I SEMESTER												
1	ME1951	Engineering Statistics & Design of Experiments	3	0	0	3	3	15	15	10	60	3
2	Professional Elective- I		3	0	0	3	3	15	15	10	60	3
	ME1957	Quality Control & Metrology										
	ME1958	Reliability Engineering										
	ME1959	Design for Manufacturing and Assembly										
3	ME1952	Industrial Engineering	3	0	0	3	3	15	15	10	60	3
4	ME1953	Manufacturing Engineering - I	3	0	0	3	3	15	15	10	60	3
5	ME1954	Lab: Manufacturing Engineering - I	0	0	2	2	1	40		60		
6	ME1955	Computer Integrated Manufacturing	3	0	0	3	3	15	15	10	60	3
7	ME1956	Lab: Computer Integrated Manufacturing	0	0	2	2	1	40		60		
Total			15	0	4	19	17					
II SEMESTER												
1	ME1961	Tool Engineering	3	0	0	3	3	15	15	10	60	3
2	ME1962	Production Management	3	0	0	3	3	15	15	10	60	3
3	ME1963	Manufacturing Engineering - II	3	0	0	3	3	15	15	10	60	3
4	ME1964	Lab: Manufacturing Engineering-II	0	0	2	2	1	40		60		
5	ME1965	Computer in Production Management	3	0	0	3	3	15	15	10	60	3
6	Professional Elective- II		3	0	0	3	3	15	15	10	60	3
	ME1967	Maintenance Engineering										
	ME1968	CNC and Robotics										
	ME1969	Welding Technology										
7	ME1966	Seminar	0	0	2	2	1	100				
Total			15	0	4	19	17					
III SEMESTER												
1	ME1971	Productivity Management	3	0	0	3	3	15	15	10	60	3
2	Professional Elective- III		3	0	0	3	3	15	15	10	60	3
	ME1973	Quantitative Techniques										
	ME1974	Plastics and Composites										
	ME1975	Project Evaluation & Management										
3	ME1972	Project Phase-I	0	0	16	16	8	100				
Total			6	0	16	22	14					
IV SEMESTER												
1	ME1981	Project Phase-II	0	0	24	24	12	40		60		
Total			0	0	24	24	12					
Grand Total of Credits							60					
Chairperson			Date of Release				May 2014			Applicable for		
Dean (Acad. Matt.)			Version				1.00			AY 2014-15 Onwards		



Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering



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

M. Tech. SCHEME OF EXAMINATION 2014

Department of Electrical Engineering

Integrated Power Systems

Sl. No.	Course Code	Course Title	Contact Hours				Credits	% Weightage				ESE Duration Hrs.
			L	T	P	Total Contact Hrs.		MSE - I	MSE - II	TA	ESE	
I SEMESTER												
1	EL1901	Advanced Power Electronics	3	0	0	3	3	15	15	10	60	3
2	EL1902	Analog & Digital Protection	3	0	0	3	3	15	15	10	60	3
3	EL1903	Digital Control System	3	0	0	3	3	15	15	10	60	3
4	EL1904	HVDC Power Transmission	3	0	0	3	3	15	15	10	60	3
5	EL1905	Power System Modelling	3	0	0	3	3	15	15	10	60	3
6	EL1906	Lab: Analog & Digital Protection	0	0	4	4	2			40	60	
8	EL1907	Lab: Advance Power Electronics	0	0	4	4	2			40	60	
Total			15	0	8	23	19					
II SEMESTER												
1	EL1911	Power System planning	3	0	0	3	3	15	15	10	60	3
2	EL1912	Application of Power Electronics to Power System	3	0	0	3	3	15	15	10	60	3
3	EL1913	Power Quality	3	0	0	3	3	15	15	10	60	3
Professional Elective- I												
4	EL1916	Electrical Drives and Controls	3	0	0	3	3	15	15	10	60	3
	EL1918	Renewable Energy System										
Lab: Professional Elective I												
5	EL1917	Lab: Electrical Drives and Controls	0	0	4	4	2			40	60	
	EL1919	Lab: Renewable Energy System										
Professional Elective II												
6	EL1920	Advanced Digital Signal Processing	3	0	0	3	3	15	15	10	60	3
	EL1921	EHV Power Transmission										
	EL1922	Restructuring of Power System										
7	EL1914	Power System Simulation	0	0	4	4	2			40	60	
8	EL1915	Seminar	0	0	2	2	1			100		
Total			15	0	10	25	20					
III SEMESTER												
Professional Elective - III												
1	EL1933	Power System Stability	3	0	0	3	3	15	15	10	60	3
	EL1934	Electrical Distribution Systems										
	EL1935	Power System Operation and Control										
	EL1936	Transients in Power Systems										
Professional Elective - IV												
2	EL1937	Distributed Automation	3	0	0	3	3	15	15	10	60	3
	EL1938	Power Electronics for Renewable Energy Systems										
	EL1939	Control System Design										
3	EL1931	Lab.: Power System Design	0	0	4	4	2			40	60	
4	EL1932	Project Phase -I	0	0	16		8			100		
Total			6	0	20	10	16					
IV SEMESTER												
1	EL1941	Project Phase-II	0	0	20	24	12			40	60	
Total			0	0	20	24	12					
Grand Total of Credits							67					

Chairperson		Date of Release	Nov. 2017	Applicable for
Dean (Acad. Matt.)		Version	1.02	AY 2014-15 Onwards





Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

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

M. Tech. SCHEME OF EXAMINATION 2014 Department of Electronics Engineering Electronics Engineering

Sl. No.	Course Code	Course Title	Contact Hours				Credits	% Weightage				ESE Duration Hrs.
			L	T	P	Total Contact Hrs.		MSE-I	MSE-II	TA	ESE	
I SEMESTER												
1	EE1901	Advanced Digital Signal Processing	3	0	0	3	3	15	15	10	60	3
2	EE1902	Digital IC Design	3	0	0	3	3	15	15	10	60	3
3	EE1903	RISC & DSP Processor Architecture	3	0	0	3	3	15	15	10	60	3
4	EE1904	Advanced Digital System Design	3	0	0	3	3	15	15	10	60	3
5	EE1905	Advanced Communication Systems	3	0	0	3	3	15	15	10	60	3
6	EE1906	Lab: Advanced Digital Signal Processing	0	0	2	2	1			40	60	
7	EE1907	Lab: Digital IC Design	0	0	2	2	1			40	60	
8	EE1908	Lab: Advanced Digital System Design	0	0	2	2	1			40	60	
Total			15	0	6	21	18					
II SEMESTER												
1	EE1911	RF Circuit Design	3	0	0	3	3	15	15	10	60	3
2	EE1912	Soft Computing Techniques	3	0	0	3	3	15	15	10	60	3
3	EE1913	Digital Image Processing	3	0	0	3	3	15	15	10	60	3
4	Professional Elective- I											
	EE1916	Analog IC Design	3	0	0	3	3	15	15	10	60	3
	EE1917	Multirate signal Processing										
EE1918	Low Power CMOS VLSI Design											
5	Professional Elective- II											
	EE1919	Wireless Communication	3	0	0	3	3	15	15	10	60	3
	EE1920	VLSI Signal Processing										
EE1921	Verification & testing of VLSI Circuit											
6	EE1914	Lab : Digital Image Processing	0	0	2	2	1			40	60	
7	EE1915	Lab: RF Circuit Design	0	0	2	2	1			40	60	
8	EE1922	Seminar	0	0	2	2	1			100		
Total			15	0	6	21	18					
III SEMESTER												
1	Professional Elective- III											
	EE1932	Wireless Sensor	3	0	0	3	3	15	15	10	60	3
	EE1933	Biomedical Instrumentation										
	EE1934	Mixed signal VLSI Design										
EE1935	Cryptography & Network Security											
2	Professional Elective- IV											
	EE1936	Adaptive Signal Processing	3	0	0	3	3	15	15	10	60	3
	EE1937	Embedded System & RTOS										
	EE1938	Advanced Computer Architecture										
EE1939	Pattern recognition											
3	EE1931	Project Phase - I	0	0	16	16	8			100		
Total			6	0	16	22	14					
IV SEMESTER												
1	EE1941	Project Phase - II	0	0	24	24	12			40	60	
Total			0	0	24	24	12					
Grand Total of Credits							62					
Chairperson 			Date of Release			May 2014		Applicable for				
Dean (Acad. Matt.) 			Version			1		AY 2014-15 Onwards				



Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

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

M. Tech. SCHEME OF EXAMINATION 2014

Department of Electronics Engineering

VLSI DESIGN

Sl. No.	Course Code	Course Title	Contact Hours				Credits	% Weightage				ESE Duration Hrs.
			L	T	P	Total Contact Hrs.		MSE - I	MSE - II	TA	ESE	
I SEMESTER												
1	EE1951	VLSI Signal Processing	3	0	0	3	3	15	15	10	60	3
2	EE1952	Digital IC Design	3	0	0	3	3	15	15	10	60	3
3	EE1953	VLSI Technology	3	0	0	3	3	15	15	10	60	3
4	EE1954	Embedded System & RTOS	3	0	0	3	3	15	15	10	60	3
5	EE1955	Advanced Digital System Design	3	0	0	3	3	15	15	10	60	3
6	EE1956	Lab: Embedded System & RTOS	0	0	2	2	1			40	60	
7	EE1957	Lab: Digital IC Design	0	0	2	2	1			40	60	
8	EE1958	Lab: Advanced Digital System Design	0	0	2	2	1			40	60	
			15	0	6	21	18					
II SEMESTER												
1	EE1961	RF Circuit design	3	0	0	3	3	15	15	10	60	3
2	EE1962	Analog IC Design	3	0	0	3	3	15	15	10	60	3
3	EE1963	Synthesis & Optimisation of VLSI Circuits	3	0	0	3	3	15	15	10	60	3
4	Professional Elective - I		3	0	0	3	3	15	15	10	60	3
	EE1966	Low Power CMOS VLSI Design										
	EE1967	Hardware Software Codesign										
5	Professional Elective - II		3	0	0	3	3	15	15	10	60	3
	EE1969	Verification & Testing of VLSI Circuit										
	EE1970	Digital Image Processing										
	EE1971	Solid State Devices & Modelling										
6	EE1964	Lab: RF Circuit design	0	0	2	2	1			40	60	
7	EE1965	Lab: Analog IC Design	0	0	2	2	1			40	60	
8	EE1972	Seminar	0	0	2	2	1			100		
			15	0	6	21	18					
III SEMESTER												
1	Professional Elective - III		3	0	0	3	3	15	15	10	60	3
	EE1982	Mixed Signal VLSI Design										
	EE1983	Micro Electro Mechanical Systems										
	EE1984	VLSI for wireless communication										
2	Professional Elective - IV		3	0	0	3	3	15	15	10	60	3
	EE1985	ASIC Design										
	EE1986	Semiconductor Memory Design										
	EE1987	Advanced Computer Architecture										
3	EE1981	Project Phase - I	0	0	16	16	8			100		
			6	0	16	22	14					
IV SEMESTER												
1	EE1991	Project Phase - II	0	0	24	24	12			40	60	
			0	0	24	24	12					
Grand Total of Credits							62					
Chairperson			Date of Release		May 2014		Applicable for					
Dean (Acad. Matt.)			Version		1		AY 2014-15 Onwards					



Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

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

M. Tech. SCHEME OF EXAMINATION 2014

Department of Electronics & Telecommunication Engineering Communication Engineering

S. No.	Course Code	Course Title	Contact Hours				Credits	% Weightage				ESE Duration Hrs.
			L	T	P	Total Contact Hrs.		MSE-I	MSE-II	TA	ESE	
I SEMESTER												
1	ET1951	Mathematical Foundations for Communication Engineering	3	0	0	3	3	15	15	10	60	3
2	ET1952	Passive RF Circuits & Systems	3	0	0	3	3	15	15	10	60	3
3	ET1953	Lab: Passive RF Circuits & Systems	0	0	2	2	1			40	60	
4	ET1954	Advanced Digital Communication	3	0	0	3	3	15	15	10	60	3
5	ET1955	Lab: Advanced Digital Communication	0	0	2	2	1			40	60	
6	ET1956	Adaptive Signal Processing	3	0	0	3	3	15	15	10	60	3
7	ET1957	Lab: Adaptive Signal Processing	0	0	2	2	1			40	60	
8	Professional Elective- I											
	ET1958	Error Control Coding	3	0	0	3	3	15	15	10	60	3
	ET1959	Embedded Systems & DSP Processor										
	ET1960	Pattern Recognition										
Total			15	0	6	21	18					
II SEMESTER												
1	ET1961	Advanced Antenna Theory	3	0	0	3	3	15	15	10	60	3
2	ET1962	Lab: Advanced Antenna Theory	0	0	2	2	1			40	60	
3	ET1963	VLSI Signal Processing	3	0	0	3	3	15	15	10	60	3
4	ET1964	Digital Image processing	3	0	0	3	3	15	15	10	60	3
5	ET1965	Lab: Digital Image processing	0	0	2	2	1			40	60	
6	ET1966	Wireless Communications & Networks	3	0	0	3	3	15	15	10	60	3
7	Professional Elective -II											
	ET1967	Selected Topics in Communication Systems	3	0	0	3	3	15	15	10	60	3
	ET1968	Speech Processing										
	ET1969	Detection & Estimation Theory										
	ET1973	Real Time Operating System										
8	ET1978	Seminar	0	0	2	2	1			100		
Total			15	0	6	21	18					
III SEMESTER												
1	Professional Elective- III											
	ET1970	Multimedia Communications	3	0	0	3	3	15	15	10	60	3
	ET1971	Active RF Devices and Circuits										
	ET1972	Soft Computing										
2	Professional Elective-IV											
	ET1974	High Speed Networks	3	0	0	3	3	15	15	10	60	3
	ET1975	Wireless Sensor Networks										
3	ET1976	Micro Electro Mechanical Systems										
3	ET1976	Project Phase-I	0	0	16	16	8			100		
Total			6	0	16	22	14					
IV SEMESTER												
1	ET1977	Project Phase-II	0	0	24	24	12			40	60	
Total			0	0	24	24	12					
Grand Total of Credits							62					

Chairperson		Date of Release	May 2014	Applicable for
Dean (Acad. Matt.)		Version	1	AY 2014-15 Onwards



Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

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

M. Tech. SCHEME OF EXAMINATION 2014 Department of Computer Technology Computer Science & Engineering

Sl. No.	Course Code	Course Title	Contact Hours				Credits	% Weightage				ESE Duration Hrs.
			L	T	P	Total Contact Hrs.		MSE - I	MSE - II	TA	ESE	
I SEMESTER												
1	CSE1901	High Performance Computer Architecture	3	0	0	3	3	15	15	10	60	3
2	CSE1902	Real Time Systems	3	0	0	3	3	15	15	10	60	3
3	CSE1903	Network Security & Cryptography	3	0	0	3	3	15	15	10	60	3
4	CSE1904	Lab: Network Security & Cryptography	0	0	2	2	1	40		60	2	
5	CSE1905	Algorithm Design Techniques	3	0	0	3	3	15	15	10	60	3
6	CSE1906	Lab: Algorithm Design Techniques	0	0	2	2	1	40		60	2	
7	Professional Elective-I											
	CSE1907	Advanced Digital Image Processing	3	0	0	3	3	15	15	10	60	3
	CSE1908	Ethical Hacking										
	CSE1909	Machine Learning										
CSE1910	Grid and Cloud Computing											
Total			15	0	4	19	17					
II SEMESTER												
1	CSE1911	Data Mining	3	0	0	3	3	15	15	10	60	3
2	CSE1912	Distributed Systems	3	0	0	3	3	15	15	10	60	3
3	CSE1913	Optimizing Compilers	3	0	0	3	3	15	15	10	60	3
4	CSE1914	Lab: Optimizing Compilers	0	0	2	2	1	40		60	2	
5	CSE1915	Software Architecture	3	0	0	3	3	15	15	10	60	3
6	CSE1916	Lab: Software Architecture	0	0	2	2	1	40		60	2	
7	CSE1917	Seminar	0	0	2	2	1			100		1
8	Professional Elective-II											
	CSE1918	Soft Computing Techniques	3	0	0	3	3	15	15	10	60	3
	CSE1919	Data Warehousing										
	CSE1920	Wireless Sensor Network										
CSE1921	Information Retrieval Systems											
Total			15	0	6	21	18					
III SEMESTER												
1	Professional Elective- III											
	CSE1923	Computer Vision	3	0	0	3	3	15	15	10	60	3
	CSE1924	Natural Language Processing										
	CSE1925	Optimization Techniques										
CSE1926	Database Security											
2	Professional Elective-IV											
	CSE1927	Cyber Forensics	3	0	0	3	3	15	15	10	60	3
	CSE1928	Pattern Recognition										
	CSE1929	Algorithms for Bioinformatics										
CSE1930	Semantic Web and Social Networks											
3	CSE1922	Project Phase - I	0	0	16	16	8	100				
Total			6	0	16	22	14					
IV SEMESTER												
1	CSE1931	Project Phase - II	0	0	24	24	12	40		60		
			0	0	24	24	12					
Grand Total of credits							61					
Chairperson			<i>Arvind</i>		Date of Release		May 2014		Applicable for			
Dean (Acad. Matt.)			<i>Sushil</i>		Version		1.00		AY 2014-15 Onwards			



Yeshwantrao Chavan College of Engineering

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

M. Tech. SCHEME OF EXAMINATION 2014 Department of Information Technology Information Technology

Sl. No.	Course Code	Course Title	Contact Hours				Credits	% Weightage				ESE Duration Hrs.
			L	T	P	Total Contact Hrs.		MSE - I	MSE - II	TA	ESE	
I SEMESTER												
1	IT1901	Advanced Database Systems	3	0	0	3	3	15	15	10	60	3
2	IT1902	Lab: Advanced Database Systems	0	0	2	2	1	40			60	
3	IT1903	Advances in Algorithms	3	0	0	3	3	15	15	10	60	3
4	IT1904	Lab: Advances in Algorithms	0	0	2	2	1	40			60	
5	IT1905	Soft Computing	3	0	0	3	3	15	15	10	60	3
6	IT1906	Lab: Soft Computing	0	0	2	2	1	40			60	
7	IT1907	Advanced Computer Architecture	3	0	0	3	3	15	15	10	60	3
8	Professional Elective-I		3	0	0	3	3	15	15	10	60	3
	IT1908	Geographical Information Systems										
	IT1909	Artificial Intelligence										
	IT1910	Internet Technology										
	IT1911	High Performance Computer Networks										
Total			15	0	6	21	18					
II SEMESTER												
1	IT1912	Parallel Computing	3	0	0	3	3	15	15	10	60	3
2	IT1913	Lab: Parallel Computing	0	0	2	2	1	40			60	
3	IT1914	Object Oriented Systems	3	0	0	3	3	15	15	10	60	3
4	IT1915	Lab: Object Oriented Systems	0	0	2	2	1	40			60	
5	IT1916	Business Intelligence & Analytics	3	0	0	3	3	15	15	10	60	3
6	IT1917	Lab: Business Intelligence & Analytics	0	0	2	2	1	40			60	
7	IT1918	Computer System Security	3	0	0	3	3	15	15	10	60	3
8	Professional Elective-II		3	0	0	3	3	15	15	10	60	3
	IT1919	Advanced Digital Image Processing										
	IT1920	Advanced Compiler Design										
	IT1921	Bioinformatics										
	IT1922	Mobile Communication Systems										
9	IT1923	Seminar	0	0	2	2	1	100				
Total			15	0	8	23	19					
III SEMESTER												
1	Professional Elective-III		3	0	0	3	3	15	15	10	60	3
	IT1924	Distributed Systems										
	IT1925	Operation Research Techniques										
	IT1926	Pattern Recognition										
	IT1927	Wireless Sensor Networks										
	IT1928	Software Architecture										
2	Professional Elective-IV		3	0	0	3	3	15	15	10	60	3
	IT1929	Cloud Computing										
	IT1930	Computer Vision										
	IT1931	Cyber Forensics										
	IT1932	Internet Routing Design										
	IT1933	Embedded Systems Design										
	IT1934	Management Information Systems										
3	IT1935	Project Phase - I	0	0	16	16	8	100				
Total			6	0	16	22	14					
IV SEMESTER												
1	IT1936	Project Phase - II	0	0	24	24	12	40			60	
Total			0	0	24	24	12					
Grand Total Of Credits							63					
Chairperson			Date of Release				May 2014		Applicable for			
Dean (Acad. Matt.)			Version				1.00		AY 2014-15 Onwards			

Dean (Acad.)
Yeshwantrao Chavan
College of Engineering
Wanadongri, Hingna Road
NAGPUR - 441 110



PRINCIPAL
Yeshwantrao Chavan
College of Engineering
Wanadongri, Hingna Road
NAGPUR - 441 110



Nagar Yashwantrao Chavan College of Engineering
 (An Autonomous Institute affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
 M. Tech. SCHEME OF EXAMINATION 2018-19
 Structural Engineering

SN	Sem	Sub Code	Subject	TPP	Contact Hours				Credit	% Weightage				ESE Duration Hours
					L	T	P	Hrs		MSE-I	MSE-II	TA	ESE	
I SEMESTER														
1	1	CV2901	Numerical Methods	T	3	0	0	3	3	15	15	10	60	3
2	1	CV2902	Theory of Elasticity and Elastic Stability	T	3	0	0	3	3	15	15	10	60	3
3	1	CV2903	Structural Dynamics	T	3	0	0	3	3	15	15	10	60	3
4	1	CV2904	Lab: Structural Dynamics	P	0	0	2	2	1	-	-	40	60	-
5	1	CV2905	Matrix Analysis of Structures	T	3	0	0	3	3	15	15	10	60	3
6	1	CV2906	Lab: Matrix Analysis of Structures	P	0	0	2	2	1	-	-	40	60	-
7	1	CV2907	Design of Substructures & Foundations	T	3	0	0	3	3	15	15	10	60	3
8	1	CV2908	Research Practice	P	0	0	2	2	1	-	-	40	60	-
Total						15	0	6	21	18				

II SEMESTER														
1	2	CV2911	Finite Element Method	T	3	0	0	3	3	15	15	10	60	3
	2	CV2912	Lab: Finite Element Method	P	0	0	2	2	1	-	-	40	60	-
2	2	CV2913	Theory of Plates and Shells	T	3	0	0	3	3	15	15	10	60	3
3	2	CV2914	Earthquake and wind effects on Structures	T	3	0	0	3	3	15	15	10	60	3
4	2	CV2915	Advanced Concrete Structures	T	3	0	0	3	3	15	15	10	60	3
5	2		Professional Elective -I	T	3	0	0	3	3	15	15	10	60	3
6	2	CV2919	Lab: RCC Design Studio	P	0	0	2	2	1	-	-	40	60	-
7	2	CV2920	Seminar		0	0	2	2	1	-	-	100		-
Total						15	0	6	21	18				

List of Professional Elective -I

2	CV2916	PE I: New Engineering Materials
2	CV2917	PE I: Prestressed Concrete
2	CV2918	PE I: Smart Structures and Applications

III SEMESTER														
1	3	CV2931	Advanced Steel Structures	T	3	0	0	3	3	15	15	10	60	4
2	3	CV2932	Lab: Steel Design Studio	P	0	0	2	2	1	-	-	40	60	-
3	3		Professional Elective -II	T	3	0	0	3	3	15	15	10	60	3
4	3		Professional Elective -III	T	3	0	0	3	3	15	15	10	60	3
5	3	CV2939	Project Phase-I	P	0	0	12	12	6	-	-	100		-
Total						9	0	14	23	16				

List of Professional Elective -II

3	CV2933	PE II: Tall Building
3	CV2934	PE II: Composite Structures
3	CV2935	PE II: Bridge Engineering

List of Professional Elective -III

3	CV2936	PE III: Plastic Analysis and Design of Structures
3	CV2937	PE III: Seismic Analysis and Design of Structures
3	CV2938	PE III: Design of Industrial Structures

IV SEMESTER														
1	4	CV2940	Project Phase-II		0	0	20	20	10			40	60	
Total						0	0	20	20	10				
Total Credit										62				

		June 20 18	1.00	Applicable for Sem 1 & 2 AY 20 18-19 & Sem 3 & 4 AY 2019-20 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



Nagar Yuvak Shikshan Sanshodhan
 Yashwantrao Chavan College of Engineering
 (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
 M. Tech. SCHEME OF EXAMINATION 2018-19
 Environmental Engineering

SN	Sem	Sub Code	Subject	T/P	Contact Hours				Credits	%Weightage				ESE Duration Hours
					L	T	P	Hrs		MSE-I	MSE-II	TA	ESE	
I SEMESTER														
1	1	GE2901	Statistical and Computational Methods	T	3	0	0	3	3	15	15	10	60	3
2	1	CV2961	Environmental Chemistry and Microbiology	T	3	0	0	3	3	15	15	10	60	3
3	1	CV2962	Lab. Environmental Chemistry and Microbiology	P	0	0	2	2	1			40	60	
4	1	CV2963	Water Supply and Waste Water Collection System	T	3	0	0	3	3	15	15	10	60	3
5	1	CV2964	Lab. - Water Supply and Waste Water Collection System	P	0	0	2	2	1			40	60	
6	1	CV2965	Municipal Water Treatment	T	3	0	0	3	3	15	15	10	60	3
7	1	CV2966	Municipal Waste Water Treatment and Disposal	T	3	0	0	3	3	15	15	10	60	3
Total					15	0	4	19	17					

II SEMESTER														
1	2	CV2971	Industrial Waste Water Treatment and Disposal	T	3	0	0	3	3	15	15	10	60	3
2	2	CV2972	Environmental Management	T	3	0	0	3	3	15	15	10	60	3
3	2	CV2973	Air Pollution and Its Control	T	3	0	0	3	3	15	15	10	60	3
4	2	CV2974	Municipal Solid Waste Management	T	3	0	0	3	3	15	15	10	60	3
5	2		Professional Elective-I	T	3	0	0	3	3	15	15	10	60	3
6	2	CV2978	Seminar	P	0	0	2	2	1			100		
Total					15	0	2	17	16					

List of Professional Elective-I

2	CV2975	PE I: Hazardous Waste Management
2	CV2976	PE I: Water Resource Management
2	CV2977	PE I: Advanced Water Treatment

III SEMESTER														
	3		Professional Elective-II	T	3	0	0	3	3	15	15	10	60	3
	3		Professional Elective-II	T	3	0	0	3	3	15	15	10	60	3
	3	CV2969	Project Phase - I	P	0	0	14	14	8			100		
Total					6	0	14	20	14					

List of Professional Elective-II

3	CV2961	PE II: Rural Water Supply and Sanitation
3	CV2962	PE II: Environmental Biotechnology
3	CV2963	PE II: Application of Remote Sensing & GIS in Environmental Engineering

List of Professional Elective-III

3	CV2965	PE III: Energy Conversion and Environment
3	CV2967	PE III: Environmental Optimization and Modeling
3	CV2968	PE III: Water Reuse and Recycling

IV SEMESTER														
1	4	CV2990	Project Phase-II	P	0	0	20	20	20			40	60	
Total					0	0	20	20	20					
Total Credits									67					

		June 2018	1.00	Applicable for Sem 1 & 2 AY 2018-19 & Sem 3 & 4 AY 2019-20 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



M. Tech. SCHEME OF EXAMINATION 2018-19

CAD / CAM

SN	Sem	Sub Code	Subject	T/P	Contact Hours			Credits	%Weightage				ESE Duration Hours	
					L	T	P		Hrs	MSE-I	MSE-II	TA		ESE
I SEMESTER														
1	1	ME2901	Stress Analysis	T	3	0	0	3	3	15	15	10	60	3
2	1	ME2902	Computer Integrated Manufacturing	T	3	0	0	3	3	15	15	10	60	3
3	1		Professional Elective- I	T	3	0	0	3	3	15	15	10	60	3
4	1	ME2907	Computer Graphics and Solid Modeling	T	3	0	0	3	3	15	15	10	60	3
5	1	ME2908	Lab: Computer Graphics and Solid Modeling	P	0	0	2	2	1			40	60	
6	1	ME2909	CNC Technologies	T	3	0	0	3	3	15	15	10	60	3
7	1	ME2910	Lab: CNC Technologies	P	0	0	2	2	1			40	60	
Total					15	0	4	19	17					

List of Professional Electives-I

1	ME2903	PE I: Project Engineering
1	ME2904	PE I: Tool Design
1	ME2905	PE I: Object Oriented Programmings
1	ME2906	PE I: Reliability Engineering

II SEMESTER

1	2	ME2911	Robotics	T	3	0	0	3	3	15	15	10	60	3
2	2	ME2912	Modelling & Simulation	T	3	0	0	3	3	15	15	10	60	3
3	2	ME2913	Finite Element Method	T	3	0	0	3	3	15	15	10	60	3
4	2	ME2914	Lab: Finite Element Method	P	0	0	2	2	1			40	60	
5	2	ME2915	Artificial Intelligence	T	3	0	0	3	3	15	15	10	60	3
6	2		Professional Elective-II	T	3	0	0	3	3	15	15	10	60	3
7	2	ME2920	Seminar	P	0	0	2	2	1			100		
Total					15	0	4	19	17					

List of Professional Electives-II

2	ME2916	PE II: Product Data Management
2	ME2917	PE II: Mechatronics
2	ME2918	PE II: Machine Tool Design
2	ME2919	PE II: Plant Design

III SEMESTER

1	3	ME2931	Product Design & Development	T	3	0	0	3	3	15	15	10	60	3
2	3		Professional Elective - III	T	3	0	0	3	3	15	15	10	60	3
3	3	ME2939	Project Phase -I	P	0	0	16	16	8			100		
Total					6	0	16	22	14					

List of Professional Electives-III

3	ME2932	PE III: Computational Fluid Dynamics
3	ME2933	PE III: Design Optimization Techniques
3	ME2934	PE III: Rapid Prototyping
3	ME2935	PE III: Design for Manufacturing and Assembly

IV SEMESTER

1	4	ME2940	Project Phase-II	P	0	0	24	24	12			40	60	
Total					0	0	24	24	12					
Grand Total of Credits									60					

		June 2018	1.00	Applicable for Sem 1 & 2 AY 2018-19 & Sem 3 & 4 AY 2019-20 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering
 (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
M. Tech. SCHEME OF EXAMINATION 2018-19
Integrated Power Systems

SN	Sem	Sub Code	Subject	T/P	Contact Hours				Credits	% Weightage				ESE Duration Hours
					L	T	P	Hrs		MSE-I	MSE-II	TA	ESE	
I SEMESTER														
1	1	EL2901	Advanced Power Electronics	T	3	0	0	3	3	15	15	10	60	3
8	1	EL2902	Lab: Advance Power Electronics	P	0	0	4	4	2			40	60	
2	1	EL2903	Analog & Digital Protection	T	3	0	0	3	3	15	15	10	60	3
6	1	EL2904	Lab: Analog & Digital Protection	P	0	0	4	4	2			40	60	
3	1	EL2905	Digital Control System	T	3	0	0	3	3	15	15	10	60	3
4	1	EL2906	HVDC Power Transmission	T	3	0	0	3	3	15	15	10	60	3
5	1	EL2907	Power System Modelling	T	3	0	0	3	3	15	15	10	60	3
Total					15	0	8	23	19					

II SEMESTER														
1	2	EL2911	Power System planning	T	3	0	0	3	3	15	15	10	60	3
2	2	EL2912	Application of Power Electronics to Power System	T	3	0	0	3	3	15	15	10	60	3
3	2	EL2913	Power Quality	T	3	0	0	3	3	15	15	10	60	3
4	2		Professional Elective-I	T	3	0	0	3	3	15	15	10	60	3
5	2		Lab: Professional Elective I	P	0	0	4	4	2			40	60	
6	2		Professional Elective II	T	3	0	0	3	3	15	15	10	60	3
7	2	EL2921	Power System Simulation	P	0	0	4	4	2			40	60	
Total					15	0	8	23	19					

List of Professional Electives-I

2	EL2914	PE I: Electrical Drives and Controls
2	EL2915	PE I: Lab: Electrical Drives and Controls
2	EL2916	PE I: Renewable Energy System
2	EL2917	PE I: Lab: Renewable Energy System

List of Professional Electives-II

2	EL2918	PE II: Advanced Digital Signal Processing
2	EL2919	PE II: EHV Power Transmission
2	EL2920	PE II: Restructuring of Power System

III SEMESTER

1	3		Professional Elective - III	T	3	0	0	3	3	15	15	10	60	3
2	3		Professional Elective - IV	T	3	0	0	3	3	15	15	10	60	3
3	3	EL2938	Lab.: Power System Design	P	0	0	4	4	2			40	60	
4	3	EL2939	Project Phase-I	P	0	0	16		8			100		
Total					6	0	20	10	16					

List of Professional Electives-III

3	EL2931	Power System Stability
3	EL2932	Electrical Distribution Systems
3	EL2933	Power System Operation and Control
3	EL2934	Transients in Power Systems

List of Professional Electives-IV

3	EL2935	Distributed Automation
3	EL2936	Power Electronics for Renewable Energy Systems
3	EL2937	Control System Design

IV SEMESTER

1	4	EL2940	Project Phase-II	P	0	0	20	24	12			40	60	
Total					0	0	20	24	12					
Grand Total of Credits									66					

		June 2018	1.00	Applicable for Sem 1 & 2 AY 2018-19 & Sem 3 & 4 AY 2019-20 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



M. Tech. SCHEME OF EXAMINATION 2018-19
Electronics Engineering

SN	Sem	Sub Code	Subject	T/P	Contact				Credits	% Weightage				ESE Duration
					L	T	P	Hrs		MSE-I	MSE-II	TA	ESE	
I SEMESTER														
1	1	EE2901	Advanced Digital Signal Processing	T	3	0	0	3	3	15	15	10	60	3
6	1	EE2902	Lab: Advanced Digital Signal Processing	P	0	0	2	2	1			40	60	
2	1	EE2903	Digital IC Design	T	3	0	0	3	3	15	15	10	60	3
7	1	EE2904	Lab: Digital IC Design	P	0	0	2	2	1			40	60	
3	1	EE2905	RISC & DSP Processor Architecture	T	3	0	0	3	3	15	15	10	60	3
4	1	EE2906	Advanced Digital System Design	T	3	0	0	3	3	15	15	10	60	3
8	1	EE2907	Lab: Advanced Digital System Design	P	0	0	2	2	1			40	60	
5	1	EE2908	Advanced Communication Systems	T	3	0	0	3	3	15	15	10	60	3
Total						15	0	6	21					18

II SEMESTER														
1	2	EE2911	RF Circuit Design	T	3	0	0	3	3	15	15	10	60	3
2	2	EE2912	Lab: RF Circuit Design	P	0	0	2	2	1			40	60	
3	2	EE2913	Soft Computing Techniques	T	3	0	0	3	3	15	15	10	60	3
4	2	EE2914	Digital Image Processing	T	3	0	0	3	3	15	15	10	60	3
5	2	EE2915	Lab : Digital Image Processing	P	0	0	2	2	1			40	60	
6	2	Professional Elective- I		T	3	0	0	3	3	15	15	10	60	3
7	2	Professional Elective- II		T	3	0	0	3	3	15	15	10	60	3
8	2	EE2922	Seminar	P	0	0	2	2	1			100		
Total						15	0	6	21					18

List of Professional Electives-I

2	EE2916	PE I: Analog IC Design
2	EE2917	PE I: Multirate signal Processing
2	EE2918	PE I: Low Power CMOS VLSI Design

List of Professional Electives-II

2	EE2919	PE II: Wireless Communication
2	EE2920	PE II: VLSI Signal Processing
2	EE2921	PE II: Verification & testing of VLSI Circuit

III SEMESTER														
1	3	Professional Elective- III		T	3	0	0	3	3	15	15	10	60	3
2	3	Professional Elective- IV		T	3	0	0	3	3	15	15	10	60	3
3	3	EE2939	Project Phase - I	P	0	0	16	16	8			100		
Total						6	0	16	22					14

List of Professional Electives-III

3	EE2931	PE III :Wireless Sensor
3	EE2932	PE III :Biomedical Instrumentation
3	EE2933	PE III :Mixed signal VLSI Design
3	EE2934	PE III :Cryptography & Network Security

List of Professional Electives-IV

3	EE2935	PE IV :Adaptive Signal Processing
3	EE2936	PE IV :Embedded System & RTOS
3	EE2937	PE IV :Advanced Computer Architecture
3	EE2938	PE IV :Pattern recognition

IV SEMESTER														
1		EE2940	Project Phase - II	P	0	0	24	24	12			40	60	
Total						0	0	24	24					12
Grand Total of Credits									62					

		June 2018	1.00	Applicable for Sem 1 & 2 AY 2018-19 & Sem 3 & 4 AY 2019-20 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering
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M. Tech. SCHEME OF EXAMINATION 2018-19
Communication Engineering

SN	Sem	Sub Code	Subject	T/P	Contact				Credits	% Weightage				ESE Duration
					L	T	P	Hrs		MSE-I	MSE-II	TA	ESE	
I SEMESTER														
1	1	ET2901	Mathematical Foundations for Communication Engineering	T	3	0	0	3	3	15	15	10	60	3
2	1	ET2902	Passive RF Circuits & Systems	T	3	0	0	3	3	15	15	10	60	3
3	1	ET2903	Lab: Passive RF Circuits & Systems	P	0	0	2	2	1			40	60	
4	1	ET2904	Advanced Digital Communication	T	3	0	0	3	3	15	15	10	60	3
5	1	ET2905	Lab: Advanced Digital Communication	P	0	0	2	2	1			40	60	
6	1	ET2906	Adaptive Signal Processing	T	3	0	0	3	3	15	15	10	60	3
7	1	ET2907	Lab: Adaptive Signal Processing	P	0	0	2	2	1			40	60	
8	1		Professional Elective-I	T	3	0	0	3	3	15	15	10	60	3
Total					15	0	6	21	18					

List of Professional Electives-I

1	ET2908	PE I: Error Control Coding
1	ET2909	PE I: Embedded Systems & DSP Processor
1	ET2910	PE I: Pattern Recognition

II SEMESTER

1	2	ET2911	Advanced Antenna Theory	T	3	0	0	3	3	15	15	10	60	3
2	2	ET2912	Lab: Advanced Antenna Theory	P	0	0	2	2	1			40	60	
3	2	ET2913	VLSI Signal Processing	T	3	0	0	3	3	15	15	10	60	3
4	2	ET2914	Digital Image processing	T	3	0	0	3	3	15	15	10	60	3
5	2	ET2915	Lab: Digital Image processing	P	0	0	2	2	1			40	60	
6	2	ET2916	Wireless Communications & Networks	T	3	0	0	3	3	15	15	10	60	3
7	2		Professional Elective -II	T	3	0	0	3	3	15	15	10	60	3
8	2	ET2921	Seminar	P	0	0	2	2	1			100		
Total					15	0	6	21	18					

List of Professional Electives-II

2	ET2917	PE II: Selected Topics in Communication Systems
2	ET2918	PE II: Speech Processing
2	ET2919	PE II: Detection & Estimation Theory
2	ET2920	PE II: Real Time Operating System

III SEMESTER

1	3		Professional Elective- III	T	3	0	0	3	3	15	15	10	60	3
2	3		Professional Elective-IV	T	3	0	0	3	3	15	15	10	60	3
3	3	ET2937	Project Phase-I	P	0	0	16	16	8			100		
Total					6	0	16	22	14					

List of Professional Electives-III

3	ET2931	PE III: Multimedia Communications
3	ET2932	PE III: Active RF Devices and Circuits
3	ET2933	PE III: Soft Computing

List of Professional Electives-IV

3	ET2934	PE IV: High Speed Networks
3	ET2935	PE IV: Wireless Sensor Networks
3	ET2936	PE IV: Micro Electro Mechanical Systems

IV SEMESTER

1	4	ET2940	Project Phase-II	P	0	0	24	24	12			40	60	
Total					0	0	24	24	12					
Grand Total of Credits									62					

		June 2018	1.00	Applicable for Sem 1 & 2 AY 2018-19 & Sem 3 & 4 AY 2019-20 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	



Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering
 (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
M. Tech. SCHEME OF EXAMINATION 2018-19
Computer Science Engineering

SN	Sem	Sub Code	Subject	T/P	Contact Hours				Credits	% Weightage				ESE Duration Hours
					L	T	P	Hrs		MSE-I	MSE-II	TA	ESE	
I SEMESTER														
1	1	CSE2901	High Performance Computer Architecture	T	3	0	0	3	3	15	15	10	60	3
2	1	CSE2902	Real Time Systems	T	3	0	0	3	3	15	15	10	60	3
3	1	CSE2903	Network Security & Cryptography	T	3	0	0	3	3	15	15	10	60	3
4	1	CSE2904	Lab: Network Security & Cryptography	P	0	0	2	2	1			40	60	
5	1	CSE2905	Algorithm Design Techniques	T	3	0	0	3	3	15	15	10	60	3
6	1	CSE2906	Lab: Algorithm Design Techniques	P	0	0	2	2	1			40	60	
7	1		Professional Elective-I	T	3	0	0	3	3	15	15	10	60	3
8	1	CSE2911	Software Lab 1	P	0	0	2	2	2			40	60	
Total						15	0	6	21	19				

List of Professional Electives-I

1	CSE2907	PE I: Advanced Digital Image Processing
1	CSE2908	PE I: Ethical Hacking
1	CSE2909	PE I: Machine Learning
1	CSE2910	PE I: Grid and Cloud Computing

II SEMESTER

1	2	CSE2912	Data Mining	T	3	0	0	3	3	15	15	10	60	3
2	2	CSE2913	Distributed Systems	T	3	0	0	3	3	15	15	10	60	3
3	2	CSE2914	Optimizing Compilers	T	3	0	0	3	3	15	15	10	60	3
4	2	CSE2915	Lab: Optimizing Compilers	P	0	0	2	2	1			40	60	
5	2	CSE2916	Software Architecture	T	3	0	0	3	3	15	15	10	60	3
6	2	BSE2918	Seminar (Technical Writing and Publishing)	P	8	8	2	2	1			100	60	1
7	2		Professional Elective-II	T	3	0	0	3	3	15	15	10	60	3
8	2	CSE2923	Software Lab 2	P	0	0	2	2	2			40	60	
Total						15	0	8	23	20				

List of Professional Electives-II

2	CSE2919	PE II: Soft Computing Techniques
2	CSE2920	PE II: Data Warehousing
2	CSE2921	PE II: Wireless Sensor Network
2	CSE2922	PE II: Information Retrieval Systems

III SEMESTER

1	3		Professional Elective-III	T	3	0	0	3	3	15	15	10	60	3
2	3		Professional Elective-IV	T	3	0	0	3	3	15	15	10	60	3
3	3	CSE2939	Project Phase - I	P	0	0	16	16	8		100			
Total						6	0	16	22	14				

List of Professional Electives-III

3	CSE2931	PE III: Computer Vision
3	CSE2932	PE III: Natural Language Processing
3	CSE2933	PE III: Optimization Techniques
3	CSE2934	PE III: Database Security

List of Professional Electives-IV

3	CSE2935	PE IV: Cyber Forensics
3	CSE2936	PE IV: Pattern Recognition
3	CSE2937	PE IV: Algorithms for Bioinformatics
3	CSE2938	PE IV: Semantic Web and Social Networks

IV SEMESTER

1	4	CSE2940	Project Phase - II	P	0	0	24	24	12			40	60	
Total						0	0	24	24	12				
Grand Total of Credits										65				

		June 2018	1.00	Applicable for Sem 1 & 2 AY 2018-19 & Sem 3 & 4 AY 2019-20 Onwards
Chairperson	Dean (Acad. Matters)	Date of Release	Version	

Dean (Acad.)
 Yeshwantrao Chavan
 College of Engineering
 Wansujoghi, Hingna Road,
 Nagpur - 441110



PRINCIPAL
 Yeshwantrao Chavan
 College of Engineering
 Wansujoghi, Hingna Road,
 Nagpur - 441110



Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering
 (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
M. Tech. SCHEME OF EXAMINATION 2020
 Deptt. of Civil Engineering
 (Structural Engineering)

SoE No.
PG-301

Sl. No.	Sem	Course Code	Course Title	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours		
					L	T	P	Total Contact Hrs.		MSEs*	TA**	ESE			
I SEMESTER															
1	1	CV3901	Theory of Elasticity and Elastic Stability	T	3	0	0	3	3	30	30	40	3		
2	1	CV3902	Structural Dynamics	T	3	0	0	3	3	30	30	40	3		
3	1	CV3903	Lab: Structural Dynamics	P	0	0	2	2	1	-	60	40	-		
4	1	CV3904	Matrix Analysis of Structures	T	3	0	0	3	3	30	30	40	3		
5	1	CV3905	Lab: Matrix Analysis of Structures	P	0	0	2	2	1	-	60	40	-		
6	1	CV3906	Design of Substructures & Foundations	T	3	0	0	3	3	30	30	40	3		
7	1	CV3907	Earthquake and wind effects on Structures	T	3	0	0	3	3	30	30	40	3		
8	1	CV3908	Advanced Concrete Structures	T	3	0	0	3	3	30	30	40	3		
9	1	CV3909	Lab: RCC Design Studio	P	0	0	2	2	1	-	60	40	-		
Total					18	0	6	24	21						
II SEMESTER															
1	2	CV3915	Finite Element Method	T	3	0	0	3	3	30	30	40	3		
2	2	CV3916	Lab: Finite Element Method	P	0	0	2	2	1	-	60	40	-		
3	2	CV3917	Theory of Plates and Shells	T	3	0	0	3	3	30	30	40	3		
4	2	CV3918	Advanced Steel Structures	T	3	0	0	3	3	30	30	40	4		
5	2	CV3919	Lab: Steel Design Studio	P	0	0	2	2	1	-	60	40	-		
6	2		Professional Elective-I	T	3	0	0	3	3	30	30	40	3		
7	2		Professional Elective-II	T	3	0	0	3	3	30	30	40	3		
8	2		Professional Elective-III	T	3	0	0	3	3	30	30	40	3		
Total					18	0	4	22	20						
Professional Elective - I															
1	2	CV3920	PE I: New Engineering Materials												
2	2	CV3921	PE I: Prestressed Concrete												
3	2	CV3922	PE I: Smart Structures and Applications												
Professional Elective - II															
1	2	CV3923	PE II: RC Tall Buildings												
2	2	CV3924	PE II: Composite Structures												
3	2	CV3925	PE II: RC Bridge Design												
Professional Elective - III															
1	2	CV3926	PE III: Plastic Analysis and Design of Structures												
2	2	CV3927	PE III: Seismic Analysis and Design of Structures												
3	2	CV3928	PE III: Design of Industrial Structures												
III SEMESTER															
1	3	CV3939	Project Phase-I	P	0	0	16	16	8	-	100	-	-		
Total					0	0	16	16	8						
IV SEMESTER															
1	4	CV3940	Project Phase-II	P	0	0	24	24	12	-	60	40	-		
Total					0	0	24	24	12						
Total Credits									61						
<p>MSEs* = Three MSEs of 15 Marks each will conducted and marks of better 2 of these 3 MSEs will be considered for Continuous Assessment</p> <p>TA ** = for Theory : 20 marks on lecture quizzes, 8 marks on assignments, 2 marks on class performance</p> <p>TA** = for Practical : MSPA will be 15 marks each</p>															
								Jan-20		1.00		Applicable for Sem 1 & 2 AY 2020-21 & Sem 3 & 4 AY 2021-22 Onwards			
Chairperson				Dean (Acad. Matters)				Date of Release		Version					



Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering
 (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
M. Tech. SCHEME OF EXAMINATION 2020
Deptt. of Civil Engineering
(Environmental Engineering)

SoE No.
PG-301

Sl. No.	Sem	Course Code	Course Title	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
					L	T	P	Total Contact		MSEs*	TA**	ESE	
I SEMESTER													
1	1	CV3961	Environmental Chemistry and Microbiology	T	3	0	0	3	3	30	30	40	3
2	1	CV3962	Lab : Environmental Chemistry and Microbiology	P	0	0	2	2	1	-	60	40	-
3	1	CV3963	Water Supply and Waste Water Collection System	T	3	0	0	3	3	30	30	40	3
4	1	CV3964	Lab : Water Supply and Waste Water Collection System	P	0	0	2	2	1	-	60	40	-
5	1	CV3965	Municipal Water Treatment	T	3	0	0	3	3	30	30	40	3
6	1	CV3966	Municipal Solid Waste Management	T	3	0	0	3	3	30	30	40	3
7	1	CV3967	Municipal Waste Water Treatment	T	3	0	0	3	3	30	30	40	3
Total						15	0	4	19	17			
II SEMESTER													
1	2	CV3975	Industrial Waste Water Treatment and Reuse	T	3	0	0	3	3	30	30	40	3
2	2	CV3976	Environmental Management	T	3	0	0	3	3	30	30	40	3
3	2	CV3977	Air Quality Management	T	3	0	0	3	3	30	30	40	3
4	2	CV3978	Rural Water Supply and Sanitation	T	3	0	0	3	3	30	30	40	3
5	2		Professional Elective-I	T	3	0	0	3	3	30	30	40	3
6	2		Professional Elective-II	T	3	0	0	3	3	30	30	40	3
7	2	CV3986	Seminar	P	0	0	2	2	1	-	100	-	-
Total						18	0	2	20	19			
Professional Elective - I													
1	2	CV3979	PE I: Hazardous Waste Management										
2	2	CV3980	PE I: Water Resource Management										
3	2	CV3981	PE I: Environmental Biotechnology										
4	2	CV3982	PE I: Advanced Water Treatment										
Professional Elective - II													
1	2	CV3983	PE II: Energy Conversion and Environment										
2	2	CV3984	PE II: Applied Structure										
3	2	CV3985	PE II: Water Reuse and Recycling										
III SEMESTER													
1	3	CV3989	Project Phase - I	P	0	0	16	16	8	-	100	-	-
Total						0	0	16	16	8			
IV SEMESTER													
1	4	CV3990	Project Phase-II	P	0	0	24	24	12	-	60	40	-
Total						0	0	24	24	12			
Total Credits									56				
<p>MSEs* = Three MSEs of 15 Marks each will conducted and marks of better 2 of these 3 MSEs will be considered for Continuous Assessment</p> <p>TA ** = for Theory : 20 marks on lecture quizzes, 8 marks on assignments, 2 marks on class performance</p> <p>TA** = for Practical : MSPA will be 15 marks each</p>													
				Jan-20		1.00		Applicable for Sem 1 & 2 AY 2020-21 & Sem 3 & 4 AY 2021-22 Onwards					
Chairperson		Dean (Acad. Matters)		Date of Release		Version							



Nagar Yuwak Shikshan Sansha's
Yeshwantrao Chavan College of Engineering
 (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
M. Tech. SCHEME OF EXAMINATION 2020
 Deptt. of Electronics & Telecommunication
 (Communication Engineering)

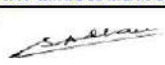

SoE No.
PG-301

Sl. No.	Sem	Course Code	Course Title	T/P	Contact Hours			Total Contact Hrs.	Credits	% Weightage			ESE Duration Hours
					L	T	P			MSEs*	TA**	ESE	
I SEMESTER													
1	1	ET3901	Mathematical Foundations for Communication Engineering	T	3	0	0	3	3	30	30	40	3
2	1	ET3902	Passive RF Circuits & Systems	T	3	0	0	3	3	30	30	40	3
3	1	ET3903	Lab: Passive RF Circuits & Systems	P	0	0	2	2	1	60		40	
4	1	ET3904	Advanced Digital Communication	T	3	0	0	3	3	30	30	40	3
5	1	ET3906	Lab: Advanced Digital Communication	P	0	0	2	2	1	60		40	
6	1	ET3906	Adaptive Signal Processing	T	3	0	0	3	3	30	30	40	3
7	1	ET3907	Lab: Adaptive Signal Processing	P	0	0	2	2	1	60		40	
8	1		Professional Elective- I	T	3	0	0	3	3	30	30	40	3
9	1		Professional Elective- II	T	3	0	0	3	3	30	30	40	3
Total					18	0	6	24	21				
List of Professional Electives-I													
1		ET3908	PE I: Error Control Coding										
1		ET3909	PE I: Embedded Systems & DSP Processor										
1		ET3910	PE I: Pattern Recognition										
List of Professional Electives-II													
1		ET3911	PE II: Multimedia Communications										
1		ET3912	PE II: Active RF Devices and Circuits										
1		ET3913	PE II: Soft Computing										
II SEMESTER													
1	2	ET3916	Advanced Antenna Theory	T	3	0	0	3	3	30	30	40	3
2	2	ET3916	Lab: Advanced Antenna Theory	P	0	0	2	2	1	60		40	
3	2	ET3917	VLSI Signal Processing	T	3	0	0	3	3	30	30	40	3
4	2	ET3918	Digital Image processing	T	3	0	0	3	3	30	30	40	3
5	2	ET3919	Lab: Digital Image processing	P	0	0	2	2	1	60		40	
6	2	ET3920	Wireless Communications & Networks	T	3	0	0	3	3	30	30	40	3
7	2		Professional Elective -III	T	3	0	0	3	3	30	30	40	3
8	2		Professional Elective -IV	T	3	0	0	3	3	30	30	40	3
9	2	ET3928	Seminar	P	0	0	2	2	1	100			
Total					18	0	6	24	21				
List of Professional Electives-III													
2		ET3921	PE III: Selected Topics in Communication Systems										
2		ET3922	PE III: Speech Processing										
2		ET3923	PE III: Detection & Estimation Theory										
2		ET3924	PE III: Real Time Operating System										
List of Professional Electives-IV													
2		ET3925	PE IV: High Speed Networks										
2		ET3926	PE IV: Wireless Sensor Networks										
2		ET3927	PE IV: Micro Electro Mechanical Systems										
III SEMESTER													
1	3	ET3939	Project Phase-I	P	0	0	16	16	8	100			
Total					0	0	16	16	8				
IV SEMESTER													
1	4	ET3940	Project Phase-II	P	0	0	24	24	12	60		40	
Total					0	0	24	24	12				
Total of Credits									62				
<p>MSEs* = Three MSEs of 15 Marks each will conducted and marks of better 2 of these 3 MSEs will be considered for Continuous Assessment</p> <p>TA** = for Theory: 20 marks on lecture quizzes, 8 marks on assignments, 2 marks on class performance</p> <p>TA** = for Practical: MSPA will be 15 marks each</p>													
						Jan,20		1.00		Applicable for Sem 1 & 2 AY 2020-21 & Sem 3 & 4 AY 2021-22 Onwards			
Chairperson		Dean (Acad. Matters)		Date of Release		Version							



Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering
 (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
M. Tech. SCHEME OF EXAMINATION 2020
Department of Electrical Engineering
Integrated Power Systems (IPS)



SoE No.
PG-301

Sl. No.	Sem	Course Code	Course Title	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours	
					L	T	P	Total Contact Hrs.		MSEs*	TA**	ESE		
I SEMESTER														
1	1	EL3901	Advanced Power Electronics	T	3	0	0	3	3	30	30	40	3	
2	1	EL3902	Lab: Advance Power Electronics	P	0	0	4	4	2	60	40			
3	1	EL3903	Analog & Digital Protection	T	3	0	0	3	3	30	30	40	3	
4	1	EL3904	Lab: Analog & Digital Protection	P	0	0	4	4	2	60	40			
5	1	EL3905	Digital Control System	T	3	0	0	3	3	30	30	40	3	
6	1	EL3906	HVDC Power Transmission	T	3	0	0	3	3	30	30	40	3	
7	1	EL3907	Power System Modelling	T	3	0	0	3	3	30	30	40	3	
8	1		Professional Elective - I	T	3	0	0	3	3	30	30	40	3	
9	1		Lab: Professional Elective I	P	0	0	4	4	2	60	40			
Total					18	0	12	30	24					
List of Professional Electives-I														
EL3914	PE I: Electrical Drives and Controls													
EL3915	PE I: Lab: Electrical Drives and Controls													
EL3916	PE I: Renewable Energy System													
EL3917	PE I: Lab: Renewable Energy System													
II SEMESTER														
1	2	EL3911	Power System Planning	T	3	0	0	3	3	30	30	40	3	
2	2	EL3912	Application of Power Electronics to Power System	T	3	0	0	3	3	30	30	40	3	
3	2	EL3913	Power Quality	T	3	0	0	3	3	30	30	40	3	
4	2		Professional Elective II	T	3	0	0	3	3	30	30	40	3	
5	2		Professional Elective - III	T	3	0	0	3	3	30	30	40	3	
6	2		Professional Elective - IV	T	3	0	0	3	3	30	30	40	3	
7	2	EL3921	Lab: Power System Simulation	L	0	0	4	4	2	60	40			
8	2	EL3938	Lab.: Power System Design		0	0	4	4	2	60	40			
Total					18	0	8	26	22					
Professional Elective II														
EL3918	PE II: Advanced Digital Signal Processing													
EL3919	PE II: EHV Power Transmission													
EL3920	PE II: Restructuring of Power System													
Professional Elective - III														
EL3931	Power System Stability													
EL3932	Electrical Distribution Systems													
EL3933	Power System Operation and Control													
EL3934	Transients in Power Systems													
Professional Elective - IV														
EL3935	Distributed Automation													
EL3936	Power Electronics for Renewable Energy Systems													
EL3937	Control System Design													
III SEMESTER														
1	3	EL3939	Project Phase -I		0	0	16	16	8		100			
Total					0	0	16	16	8					
IV SEMESTER														
1	4	EL3940	Project Phase-II		0	0	24	24	12		60	40		
Total					0	0	20	24	12					
Total of Credits									66					
<p>MSEs* = Three MSEs of 15 Marks each will conducted and marks of better 2 of these 3 MSEs will be considered for Continuous Assessment</p> <p>8 marks on assignments, 2 marks on class performance</p> <p>ASPA will be 15 marks each</p>														
 Chairperson			 Dean (Acad. Matters)			Jan,20 Date of Release			1.00 Version			Applicable for Sem 1 & 2 AY 2020-21 & Sem 3 & 4 AY 2021-22 Onwards		



Nagar Yuwak Shikshan Ganstha's
Yeshwantrao Chavan College of Engineering
 (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
M. Tech. SCHEME OF EXAMINATION 2020
Department of Mechanical Engineering
 (CAD / CAM)

SoE No.
PG-301

Sl. No.	Sem	Course Code	Course Title	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hrs.	
					L	T	P	Total Contact Hrs.		MSEs*	TA**	ESE		
I SEMESTER														
1	1	ME3901	Stress Analysis	T	3	0	0	3	3	30	30	40	3	
2	1	ME3902	Computer Integrated Manufacturing	T	3	0	0	3	3	30	30	40	3	
3	1	Professional Elective- I		T	3	0	0	3	3	30	30	40	3	
		ME3907	Project Engineering											
		ME3908	Tool Design											
		ME3909	Object Oriented Programmings											
		ME3910	Reliability Engineering											
4	1	ME3903	Computer Graphics and Solid Modeling	T	3	0	0	3	3	30	30	40	3	
5	1	ME3904	Lab: Computer Graphics and Solid Modeling	P	0	0	2	2	1	60		40		
6	1	ME3905	CNC Technologies	T	3	0	0	3	3	30	30	40	3	
7	1	ME3906	Lab: CNC Technologies	P	0	0	2	2	1	60		40		
8	1	ME3921	Product Design & Development	T	3	0	0	3	3	30	30	40	3	
					18	0	4	22	20					
II SEMESTER														
1	2	ME3911	Robotics	T	3	0	0	3	3	30	30	40	3	
2	2	ME3912	Modelling & Simulation	T	3	0	0	3	3	60	30	40	3	
3	2	ME3913	Finite Element Method	T	3	0	0	3	3	60	30	40	3	
4	2	ME3914	Lab: Finite Element Method	P	0	0	2	2	1	60		40		
5	2	ME3915	Artificial Intelligence	T	3	0	0	3	3	60	30	40	3	
6	2	Professional Elective-II		T	3	0	0	3	3	30	30	40	3	
		ME3917	Product Data Management											
		ME3918	Mechatronics											
		ME3919	Machine Tool Design											
		ME3920	Plant Design											
7	2	ME3916	Seminar		0	0	2	2	1	100				
8	2	Professional Elective - III		T	3	0	0	3	3	30	30	40	3	
		ME3923	Computational Fluid Dynamics											
		ME3924	Design Optimization Techniques											
		ME3925	Rapid Prototyping											
		ME3926	Design for Manufacturing and Assembly											
					18	0	4	22	20					
III SEMESTER														
1	3	ME3922	Project Phase -I		0	0	16	16	8	100				
					0	0	16	16	8					
IV SEMESTER														
1	4	ME3931	Project Phase-II		0	0	24	24	12	60		40		
					0	0	24	24	12					
Total of Credits									60					
<p>MSEs* = Three MSEs of 15 Marks each will conducted and marks of better 2 of these 3 MSEs will be considered for Continuous Assessment</p> <p>TA ** = for Theory : 20 marks on lecture quizzes, 8 marks on assignments, 2 marks on class performance</p> <p>TA** = for Practical : MSPA will be 15 marks each</p>														
 Chairperson			 Dean (Acad. Matters)			Jan,20 Date of Release			1.00 Version			Applicable for Sem 1 & 2 AY 2020-21 & Sem 3 & 4 AY 2021-22 Onwards		



M. Tech. SCHEME OF EXAMINATION 2020
Department of Computer Technology
(Computer Science and Engineering)

Sl. No.	Sem	Course Code	Course Title	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hrs.
					L	T	P	Total Contact Hrs.		MSEs*	TA**	ESE	
I SEMESTER													
1	1	CSE3901	High Performance Computer Architecture	T	3	0	0	3	3	30	30	40	3
2	1	CSE3902	Real Time Systems	T	3	0	0	3	3	30	30	40	3
3	1	CSE3903	Network Security & Cryptography	T	3	0	0	3	3	30	30	40	3
4	1	CSE3904	Lab: Network Security & Cryptography	P	0	0	2	2	1	60		40	
5	1	CSE3905	Algorithm Design Techniques	T	3	0	0	3	3	30	30	40	3
6	1	CSE3906	Lab: Algorithm Design Techniques	P	0	0	2	2	1	60		40	
7	1		Professional Elective-I	T	3	0	0	3	3	30	30	40	3
8	1		Professional Elective- II	T	3	0	0	3	3	30	30	40	3
9	1	CSE3915	Software Lab 1	P	0	0	2	2	2	60		40	
Total						18	0	6	24	22			
List of Professional Electives-I													
1	1	CSE3907	PE I: Advanced Digital Image Processing										
2	1	CSE3908	PE I: Ethical Hacking										
3	1	CSE3909	PE I: Machine Learning										
4	1	CSE3910	PE I: Grid and Cloud Computing										
List of Professional Elective- II													
1	1	CSE3911	PE II: Soft Computing Techniques										
2	1	CSE3912	PE II: Natural Language Processing										
3	1	CSE3913	PE II: Optimization Techniques										
4	1	CSE3914	PE II: Wireless Sensor Network										
II SEMESTER													
1	2	CSE3916	Data Mining	T	3	0	0	3	3	30	30	40	3
2	2	CSE3917	Distributed Systems	T	3	0	0	3	3	30	30	40	3
3	2	CSE3918	Optimizing Compilers	T	3	0	0	3	3	30	30	40	3
4	2	CSE3919	Lab: Optimizing Compilers	P	0	0	2	2	1	60		40	
5	2	CSE3920	Software Architecture	T	3	0	0	3	3	30	30	40	3
6	2	CSE3921	Lab: Software Architecture	P	0	0	2	2	1	60		40	
7	2	CSE3922	Seminar (Technical Writing and Publishing)	P	0	0	2	2	1		100		1
8	2		Professional Elective-III	T	3	0	0	3	3	30	30	40	3
9	2		Professional Elective-IV	T	3	0	0	3	3	30	30	40	3
10	2	CSE3931	Software Lab 2	P	0	0	2	2	2	60		40	
Total						18	0	8	26	23			
List of Professional Electives-III													
1	2	CSE3923	PE III: Computer Vision										
2	2	CSE3924	PE III: Data Warehousing										
3	2	CSE3925	PE III: Research Methodology & Statistics										
4	2	CSE3926	PE III: Information Retrieval Systems										
List of Professional Elective- IV													
1	2	CSE3927	PE IV: Cyber Forensics										
2	2	CSE3928	PE IV: Deep Learning										
3	2	CSE3929	PE IV: Fundamentals of Bioinformatics										
4	2	CSE3930	PE IV: Semantic Web and Social Networks										
III SEMESTER													
1	3	CSE3939	Project Phase -I		0	0	16	16	8	100			
Total						0	0	16	16	8			
IV SEMESTER													
1	4	CSE3940	Project Phase-II		0	0	24	24	12	60		40	
Total						0	0	24	24	12			
Total of Credits									65				
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Chairperson			Dean (Acad. Matters)			Date of Release			Version			Applicable for Sem 1 & 2 AY 2020-21 & Sem 3 & 4 AY 2021-22 Onwards	

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