

(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.yece.edu E-mail : principal@yece.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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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. Priyardarshan Kshirsagar, Senior General Manager, PLO PL, EVB Unit Tata Motors Ltd., Pune	19	Dr. Arvind Bhagatpatil, Dean (P & D)
7	Dr. N.G. Bawane, Principal, Jhulelal Institute of Technology, Nagpur	20	Prof. D.R. Raut, COE, YCCE,
8	Dr. S. R. Khandeshwar, HoD, Civil Engineering	21	Dr. A.M. Pande, Professor in Civil Engg, YCCE and Director (R&D)
9	Dr. S. S. Chaudhary, HoD, Mechanical Engineering	22	Dr. A.V. Patil, Professor, Civil Engineering, YCCE
10	Dr. Mrs. S. P. Adhau , HoD 's representative , Electrical Engineering	23	Dr. R.D. Thakare, Professor, Electrical Engineering, YCCE
11	Dr. P.T. Karule, HoD Electronics Engineering	24	Prof. Aniket P. Munshi, Electrical Engineering ,YCCE
12	Dr. M.S. Narlawar, HoD, Electronics & Telecommunication Engineering	25	Dr. A.V. Bapat, Dean (Acad. Mat.) & Member Secretary
13	Dr. Mrs. G.M. Dhopavkar, HoD Computer Technology		

Nagar Yuwak Shikshan Sanstha's



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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 guizzes 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 Al 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.

			Dr. R.C. Dharmik,
	Principal & Chairman		HoD, Information Technology
2	Dr. Rajesh Pande,	15	Dr. Mrs. Manjusha P. Gandhi,
1990-00-0	Principal, Shri Ramdeobaba College of Engineering and Management, Nagpur		HoD Mathematics and Humanities
3	Prof. Dr. N.C. Sivaprakash	16	Dr. J.R. Ghulghule,
	I,I,Sc., Bangalore		HoD Physics
4	Dr. Hemant Hajare, ITM College of	17	Dr. Mrs. P.U. Waghe,
	Engineering, Nagpur		HoD, Chemistry
5	Mr. Sameer Bendre,	18	Dr. P.K. Dakhole,
	Chief People Officer,		Registrar, YCCE
850	Persistent System Ltd., Nagpur	10794	942-960 (846-966-966-97)
6	Mr. Priyardarshan Kshirsagar,	19	Dr. Arvind Bhagatpatil,
	Senior General Manager, PLO PL,		Dean (P & D)
_	EVB Unit Tata Motors Ltd., Pune		
7	Dr. N.G. Bawane,	20	Prof. D.R. Raut,
	Principal, Jhulelal Institute of		COE, YCCE,
8	Technology, Nagpur Dr. V.G. Meshram	21	Dr. A.M. Dondo
0	HoD, Civil Engineering	21	Dr. A.M. Pande, Professor in Civil Engg, YCCE and Director
	HOD, Civil Engineering		(R&D)
9	Dr. S. S. Chaudhary,	22	Dr. A.V. Patil,
	HoD, Mechanical Engineering		Professor, Civil Engineering, YCCE
10	Dr. Mrs. S. P. Adhau ,	23	Dr. R.D. Thakare,
	HoD 's representative', Electrical		Professor, Electrical Engineering, YCCE
	Engineering		
11	Dr. P.T. Karule,	24	Prof. Aniket P. Munshi,
	HoD Electronics Engineering		Electrical Engineering ,YCCE
12	Dr. M.S. Narlawar,	25	Dr. A.V. Bapat, Dean
	HoD, Electronics &		(Acad. Mat.) & Member Secretary
	Telecommunication Engineering		
13	Dr. Mrs. G.M. Dhopavkar,		
	HoD Computer Technology		





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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 &	2018	3	ET 2254: Analog communication
Telecomm. Engg.	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	CT 1451: Artificial Intelligence
	2018	3	IT2207- Computer Architecture & Organization
Information Tech.	2018	5	IT2303- Software Engineering
imormation recit.	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
	18		





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

Branch	SoE	Sem	Course Code & Name
Electronic &	2018	3	ET 2254 : Analog communication
Telecomm.Engg.	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	
	Mathematical Modeling Of Manufacturing Processes	
	RapidManufacturing	
Mechanical Engg.	Heat Exchangers: Fundam entals and Design Analysis	
	Fundam entals of Surface Engineering:	
	Work System Design	
ComputerTech. 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 colour of PG closure course name. (Production and VISI)

Nagar Yuwak Shikshan Sanstha's



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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:-

- 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.
- 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 examination.
- 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 (Aritificial 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.

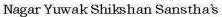
Item 24.15 Any other matter with the permission of the chair.

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. AV. 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,	14	Dr. Mrs. Manjusha P. Gandhi,
	Principal & Chairman		HoD Mathematics and Humanities
2	Prof. Dr. N.C. Sivaprakash	15	Dr. J.R. Ghulghule,
200	I,I,Sc., Bangalore	AS SAIS	HoD Physics
3	Dr. Hemant Hajare, ITM College of	16	Dr. Mrs. P.U. Waghe,
	Engineering, Nagpur		HoD, Chemistry
4	Mr. Sameer Bendre,	17	Dr. P.K. Dakhole,
	Chief People Officer,	4	Registrar, YCCE
5	Mr. Priyardarshan Kshirsagar,	18	Dr. Arvind Bhagatpatil,
	Senior General Manager, PLO PL, EVB Unit Tata Motors Ltd., Pune	34 3	Dean (P & D)
6	Dr. N.G. Bawane,	19	Prof. D.R. Raut,
	Principal, Jhulelal Institute of		COE, YCCE,
	Technology, Nagpur		- No.
7	Dr. V.G. Meshram	20	Dr. A.M. Pande,
	HoD, Civil Engineering		Professor in Civil Engg, YCCE and Director
		4	(R&D)
8	Dr. S. S. Chaudhary,	21	Dr. R.D. Thakare,
	HoD, Mechanical Engineering		Professor, Electrical Engineering, YCCE
9	Dr. Mrs. S. P. Adhau ,	22	Prof. Aniket P. Munshi,
	HoD 's representative, Electrical	470,47	Electrical Engineering ,YCCE
	Engineering		E3 E3
10	Dr. P.T. Karule,	23	Dr. A.V. Patil, Dean
	HoD Electronics Engineering		(Acad. Mat.) & Member Secretary
11	Dr. M.S. Narlawar,	-	
15-08-216-3	HoD, Electronics &		
	Telecommunication Engineering		
12	Dr. Mrs. G.M. Dhopavkar,		
	HoD Computer Technology		
13	Dr. R.C. Dharmik,	*	
	HoD, Information Technology		
	HoD, Information Technology	sje e	

1	ave of Absence granted to 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.

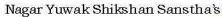
The changes proposed by various boards regarding the syllabi of the courses of "Autonomous 2014" and "Autonomous 2018" scheme as below:-

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

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
	2018	5	IT-2331: OE- II: Machine Learning
Information These	2018	6	IT2361: PE-II Machine Learning
Information Tech.	2018	7	IT2412 :PE-III – Real Time Systems
	2018	7	IT2413: PE-III– Network Security
1	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
A (MARKET) MO. 000 (13)	2018	7	PE-VI-IT2444 – Natural Language Processing
Electronic &	2018	5	ET 2323/ET 2393-OE II/ OE IV: Medical
Telecomm. Engg.			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 ^{yr}	EE2101 Basic Electronics.

Honor courses

101101 10111000						
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
8:			

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

Branch	Course Name
	Mathematical Modeling Of Manufacturing Processes
	Rapid Manufacturing
Mechanical Engg.	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
g g	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.

view of dynamic AICTE Guidelines.

Item 25.08 To discuss and approve the report of Research Centre Activities for Odd Term 2020-21.

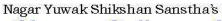
The report of the Research Centre Activities was put before the members. The report Research Centre Activities for Odd Term 2020-21 was approved by the Academic Council.

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





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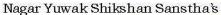
The Academic Council approved Starting of following new Certificate courses

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
ž.	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
A)	

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	B.E. Hons in Advanced Dynamics	18	Department	
	Engineering	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	G.
3	Electrical	B.E. Hons in Microgrid Technologies	18	Department	5
	Engineering	B.E. Hons in Renewable Energy System	18	Department	
		B.E. Hons in Embeded Systems	18	NPTEL Based	
4	Electronics	B.E. Hons in Wireless Communication	18	Department	
	Engineering	B.E. Hons in VLSI Design	18	Industry Associated	Intel Bangalore
		B.E. Hons in Cryptography	18	NPTEL Based	
5	Electronics & telecommunicati	B.E. Hons in Advanced Communication	18	Department	
	on Engineering	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	
	Strilla - Shukukatat secara Auto Kanut Hele - Xada kos	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	4

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			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



Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

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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		Prof. D.R. Raut, COE
6	Dr. Shantanu R. Khandeshwar, HoD, Civil Engineering	18	Dr. M.M. Raghuwanshi, 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		

Lea	ave 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. Priyardarshan 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

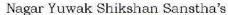
- Professional Elective-I(Sixth Sem BE)
 Illumination Engineering
- 2. Professional Elective-IV(Eight Sem BE)
 Electric Vehicles

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 Enga	6	CV 1341 OE-II Elements of Earthquake Engineering
Civil Engg.	0	CV1342 OE II: Air Pollution and Solid Waste Management.





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The changes in the Books suggested by the BoS as below

Civil Engg.	5 & 7	CV1315: Dr.A.G.Bhole,Design of Water Treatment Plant, IWWA Publication CV1441: S.K. Garg, Environmental Engineering – Vol – II, Sewage Disposal and Air 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.	0	Data Base Management System
	8	Software Engineering

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





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Item 21.04 To discuss and approve the suggestions of Board of Studies for changes in Schemes of Examination and course contents of Autonomous 2018 scheme for UG and PG Programs

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

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

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

2	
3	ME1201 Material Science and Metallurgy
4	CT2257: Database Management Systems: Unit I to III based on basics of DBMS and unit IV to VI based on SQL.
	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.
5/6	CT2321/2371: OE I / III: Introduction to DBMS – Suggested to add Date, string, arithmetic function of SQL instead of XML in Unit-VI.
0,0	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
	5/6

The changes in the Books suggested by the BoS as below

Civil Engg.	3	 CV2207; Water Supply Engineering E.W.Steel,T.J.McGhee, Water supply and Sewarage, McGraw-Hill Education; 6 edition (31 January 1991). 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	
Computer Tech.		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.

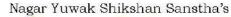
The Academic Council approved to offer NPTEL/SWAYAM based twelve weeks course and transfer the credit /grade earned as open elective.

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

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

Hingna Road, Wanadongri, Nagpur-411 110. 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	Colombia Colombia
2	Dr. Rajesh Pande	Principal, Shri Ramdeobaba College of Engineering and Management, Ramdeo Tekdi, Gittikhadan, Katol Road, Nagpur	Dov
3 /	Dr. Hemant Hajare	ITM College of Engineering, Behind Madhi Mandir, Ghorpad Road, Tah. Kamptee, Dist. Nagpur	Horse
4	Dr. N.G. Bawane	Principal, Jhulelal Institute of Technology, Nagpur.	Leave of Ab.
5 .	Prof. Dr. N.C. Siva Prakash	Professor, Department of Instrumentation and Applied Physics, Indian Institute of Science, Bangalore 560 012	Qu'
6	Mr. Sameer Bendre	Chief People Officer, Persistant System Ltd., Nagpur	fameer
-7 ₁	Mr. Milind Kank	Managing Director, Yeshshree Industries Ltd., Aurangabad	I leave of Ab.
8 ,	Mr. Priyardarshan Kshirsagar	Head Business (IT), Tata Motors Ltd., Pune	Leave of Alp.
9 .	Dr. S.R. Khandeshwar	Head, Dept of Civil Engg, YCCE, Nagpur	JAR.
10 -	Dr. Sharad S. Chaudhary	Head, Dept of Mech Engg, YCCE, Nagpur	4
11 -	Dr. B.Y. Bagde (R. M. Mshauzil)	Head, Dept of Electrical Engg, YCCE, Nagpur	@ Sui
12 '	Dr. P.T. Karule	Head, Dept of Electronics Engg, YCCE, Nagpur	Ocambo
13 -	Dr. M.S. Narlawar	Head, Dept of Eletronics and Telcomm, YCCE, Nagpur	Statelaway
14 •	Dr. Mrs. G.M. Dhopavkar	Head, Dept of Computer tech, YCCE, Nagpur	andloparkan
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	propincelly
-17.	Dr. J.R. Ghulghule	Head, Physics, YCCE, Nagpur	@
18 -	Dr. Mrs. Jyoti V. Miskin	Head, Dept of Chemistry, YCCE, Nagpur	Clair
19 -	Dr. P.K. Dakhole	Registrar, YCCE	please of Asb.
20 _	Dr. A.R. Bhagat Patil	Asso. Professor in Computer Technology, YCCE, Nagpur; and Dean (P&D)	Sowna
21.	Prof. D.R. Raut	Associate Professor in Civil Engg, YCCE, Nagpur; and Controller of Examinations	0 1
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)	Selovide "
24 /	Dr. A.V. Patil (Invitee)	Professor in Civil Engg, YCCE, Nagpur; and Chairman of Self Assessment of Autonomy	(Ref
25 •	Prof. Aniket P. Munshi (Invitee)	A.P. in Electrical Engg, YCCE, Nagpur	Amurzha 1
26 .	Dr. A.V. Bapat, Member Secretary	Professor in Electronics Engineering, YCCE, Nagpur; and Dean Academic Matters	An Bage 17





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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. Priyardarshan Kshirsagar, Senior General Manager, PLO PL, EVB Unit Tata Motors Ltd., Pune		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		Dr. A.V. Patil, Professor, Civil Engineering, YCCE
10	Dr. P.T. Karule, HoD Electronics Engineering		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

	ave 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	2	





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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 &	2018	4	ET2205 : Electronic Measurement and Instrumentation
Telecomm. Engg.	2018	4	ET2351: Digital signal Processing
Computer Tech. 2014		7	CT1451: Artificial Intelligence
Information Tech.	2018	4	IT2201:Digital Circuits and Microprocessors
ппоппацоп гесп.	2018	4	IT2207:Computer Architecture and Microprocessors

PG

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



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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 Editionby Behzad Razavi Publisher: McGraw-Hill Education; 1 edition
Electronic &	2018	5	ET 2303: Fields and Radiating systems - "Antennas" by John D.Krauss publisher McGraw - Hill International edition
elecomm. Engg.	2018	3	ET 2201: Electronics Devices and Circuits - "OP-AMPS and Linear Integrated Circuits" by Ramakant Gayakwad
Computer Tech. 2014 7		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. Priyardarshan 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.



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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
- 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 the 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



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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

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

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	Comy
2	Dr. Rajesh Pande	Principal, Snri Ramdeobaba College of Engineering and Management, Ramdeo Tekdi, Gittikhadan, Katol Road,	& Row
3	Dr. Hemant Hajare	ITM College of Engineering, Behind Madhi Mandir, Ghorpad Road, Tah. Kamptee, Dist. Nagpur	At Eyen
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	Q.
6	Mr. Sameer Bendre	Chief People Officer, Persistant System Ltd., Nagpur	Burdel.
7	Mr. Milind Kank	Managing Director, Yeshshree Industries Ltd., Aurangabad	. 1
8	Mr. Priyardarshan Kshirsagar	Head Business (IT), Tata Motors Ltd., Pune	Musy
9	Dr. S R. Khandeshwar	Head, Dept of Civil Engg, YCCE, Nagpur	- OTM
10	Dr. Sharad S. Chaudhary	Head, Dept of Mech Engg, YCCE, Nagpur	28
11	Dr. Mrs. S. P. Adhau	Head, Dept of Electrical Engg, YCCE, Nagpur	Sollran
12	Dr. P.T. Karule	Head, Dept of Electronics Engg, YCCE, Nagpur	& Karns
13	Dr. M.S. Narlawar	Head, Dept of Eletronics and Telcomm, YCCE, Nagpur	Glazlawa
14	Dr. Mrs. G.M. Dhopavkar	Head, Dept of Computer Tech, YCCE, Nagpur	Gnobobanka
15	Dr. R.C. Dharmik	Head, Dept of Information Tech, YCCE, Nagpur	1
16	Dr. Mrs.Manjusha P. Gandhi	Head, Dept. of Mathematics and Humanities, YCCE, Nagpur	moudin
17	Dr. J.R. Ghulghule	Head, Physics, YCCE, Nagpur	(2)
18	Dr Mrs. P. U. Waghe	Head, Dept of Chemistry, YCCE, Nagpur	pecon
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)	Downa
21	Prof. D.R. Raut	Associate Professor in Civil Engg, YCCE, Nagpur; and Controller of Examinations	1
22	Dr. R.D. Thakare (Invitee)	Professor in Electrical Engg, YCCE, Nagpur	Bound
23	Dr. A.M. Pande (Invitee)	Professor in Civil Engg, YCCE, Nagpur; and Director (R&D)	Dende
24	Dr. A.V. Patil (Invitee)	Professor in Civil Engg, YCCE, Nagpur; and Chairman of Self Assessment of Autonomy	del
25	Prof. Aniket P. Munshi (Invitee)	A.P. in Electrical Engg, YCCE, Nagpur	AMmich
26	Dr. A.V. Bapat, Member Secretary	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)

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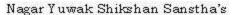
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Minutes of 19th meeting of Academic Council held on 25th August 2018

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		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		Dr. P.K. Dakhole, Registrar, YCCE	
5	Mr. Priyardarshan Kshirsagar, Head Business (IT), Tata Motors Ltd., Pune		Prof. Arvind Bhagatpatil, Dean (P & D)	
6	Dr. Shantanu R. Khandeshwar, HoD, Civil Engineering		Prof. D.R. Raut, COE	
7	Dr. Sharad S. Chaudhary, HoD, Mechanical Engineering		Dr. M.M. Raghuwanshi, Professor in Information Technology, YCCE	
8	Dr. B.Y. Bagde, HoD, Electrical Engineering		Dr. A.M. Pande, Professor in Civil Engg, YCCE and Director (R&D)	
9	Dr. P.T. Karule, HoD Electronics Engineering		Dr. A.V. Patil, Professor, Civil Engineering, YCCE	
10	Dr. M.S. Narlawar, HoD, Electronics & Telecommunication Engineering		Prof. Aniket P. Munshi, Electrical Engineering ,YCCE	
11	Prof. Mrs. G.M. Dhopavkar, HoD Computer Technology		Dr. A.V. Bapat, Dean (Acad. Mat.) & Member Secretary	

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)

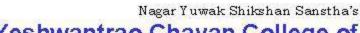
PE-I: Construction Engineering & Management

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
	7	EL1431 : PE III: Advanced Control System
	8	EL1433: Renewable Energγ Sources
Electrical Engg.	8	EL1436: PE 4 : Fundamentals of Smart Grid
-55	5	EL1302: Power Electronics
	6	EL1311: PE 1: Advanced Power Electronics
Electronics Engg.	6	EE1330 OE-II: Biomedical Instrumentation
3.3	8	EE1416: PE 5: Biomedical Instrumentation & Its Applications





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

The changes in the Books suggested by the BoS as below

Electronics	6 & 8	EE1330/EE1416:Introduction to Biomedical Instrumentation
Engg.	0 & 0	by Mandeep Singh, PHI Publication.

The changes in the Lab Courses (M. Tech IPS) suggested by the BoS as below

Electrical Engg.	2	EL1919 Lab Renewable Energy Systems	
------------------	---	-------------------------------------	--

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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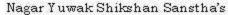
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3	EX35 35.6.1 Guidelines for Grace Marks	35.6.1 — Nil (hence new addition)	Maximum 3 Grace Marks /per subject can be given in two subjects of semester provided: ≠ Student is failed in only two subjects of that semester and all other subjects are clear 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. क.302/ বিথি – 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 programes 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 programes 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.

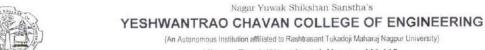
Academic Council authorized principal to take appropriated decision this regard.

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





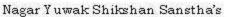


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Hingna Road, Wanadongri, Nagpur-411 110. Academic Council 2018-21

19th Meeting 25th August 2018

SN	MEMBERS	Affiliation	Signature
1	Dr. U.P. Waghe, Chairman	Professor in Civil Engg, YCCE, Nagpur; and Principal	General
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	William
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	0
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. Priyardarshan Kshirsagar	Head Business (IT), Tata Motors Ltd., Pune	NZ
9	Dr. S.R. Khandeshwar	Head, Dept of Civil Engg, YCCE, Nagpur	-OPK
10	Dr. Sharad S. Chaudhan	Head, Dept of Mech Engg, YCCE, Nagpur	& p
11	Dr. B.Y. Bagde	Head, Dept of Electrical Engg, YCCE, Nagpur	Share 2
12	Dr. P.T. Karule	Head, Dept of Electronics Engg, YCCE, Nagpur	Ricard
13	Dr. M.S. Narlawar	Head, Dept of Eletronics and Telcomm, YCCE, Nagpur	(31)
14	Prof. Mrs. G.M. Dhopavkar	Head, Dept of Computer tech, YCCE, Nagpur	Grichoforkar
15	Prof. R.C. Dharmik	R.C. Dharmik Head, Dept of Information Tech, YCCE, Nagpur	
16	Dr. Mrs.Manjusha P. Gandhi	Head, Dept. of Mathematics and Humanities, YCCE, Nagpur	menaly.
17	Dr. J.R. Ghulghule Head, Physics, YCCE, Nagpur		2
18	Dr. Mrs. Jyoti V. Miskin	Head, Dept of Chemistry, YCCE, Nagpur	LOA_O,
19	Dr. P.K. Dakhole	Registrar, YCCE	Que?
20	Prof. A.R. Bhagat Patil	Asso. Professor in Computer Technology, YCCE, Nagpur; and Dean (P&D)	Hound
21	Prof. D.R. Raut	Associate Professor in Civil Engg, YCCE, Nagpur; and Controller of Examinations	ter .
22	Dr. M.M. Raghuwanshi	Professor in Information Technology, YCCE, Nagpur; and Chairman of Result Review & Moderation Committee	are
23	Dr. A.M. Pande (Invitee)	Professor in Civil Engg, YCCE, Nagpur; and Director (R&D)	Almal
24	Dr. A.V. Patil (Invitee)	Professor in Civil Engg, YCCE, Nagpur; and Chairman of Self Assessment of Autonomy	Opt Da
25	Prof. Aniket P. Munshi (Invitee)	A.P. in Electrical Engg, YCCE, Nagpur	AMumelin.
26	Dr. A.V. Bapat, Member Secretary	Professor in Electronics Engineering, YCCE, Nagpur; and Dean Academic Matters	ArBapal





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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 02rd 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		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. Priyardarshan 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. Raghuwanshi, 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		

1	Dr. Rajesh Pande, Principal, Shri Ramdeobaba College of Engineering	3	Mr. Milind Kank, Managing Director, Yeshshree Industries Ltd., Aurangabad
2	and Management,Nagpur 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
6	- 8	CT1418 - PE IV: Digital Image Processing

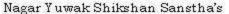
The changes in the reference books suggested by the BoS as below

Computer 6 Software Engineeri	ing, 9th Edition, Ian Sommerville, University of St
Andrews, Scotland,	, ©2011 , Pearson.

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	
mi	3	ET2203 Digital Circuit	ET2203 Digital Circuit and Fundamentals of Microprocesso	
Electronics & Telecomm. Engg	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

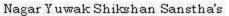
The Academic Council approved changes in course name, add course for the courses mentioned above. These changes will be incorporated with immediate effect.

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

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

Department	Programmes
Civil Engineering	Structural Engineering
Civil 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.

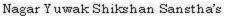
Changes proposed in Academic Regulations

Scheme of Examination

	Proposed	Approved	by the	Acade	mic 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 Council	by	the	Academic
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 Council	by	the	Academic

Evaluation

	Proposed	Acade	nic C	ouncil	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 Council	by	the	Academic
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 Council	by	the	Academic
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 Council	by	the	Academic





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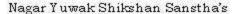
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The Grading System

	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	The award of grades will be subjected to the following process: 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) X 2/3, D \geq X - (X - 40) X 3/3 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 $\frac{30}{30}$ marks step by step, so that failure % as calculated by formula, Should not exceed 15%.	Approved by the Academic Council
	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 $C+=>X-(X-50)/3,$ $C \ge X-(X-50) \times 2/3,$ $D \ge X-(X-50) \times 3/3,$ $F < X-(X-50) \times 3/3$	





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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.

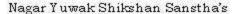
The report of the Dean (Academic Matters) was put before the members and discussed.

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 (Conferment 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 Nappur 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

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YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING

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

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	65-
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 tyen 212/19
4	Dr. N.G. Bawane	Principal, Jhulelal Institute of Technology, Nagpur.	02.3.17
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
	Mr. Milind Kank	Managing Director, Yeshshree Industries Ltd., Aurangabad	, LOA
8	Mr. Priyardarshan Kshirsagar	Head Business (IT), Tata Motors Ltd., Pune Motors	M
9	Dr. S.R. Khandeshwar	Head, Dept of Civil Engg, YCCE, Nagpur	April .
10	Dr. Sharad S. Chaudhary	Head, Dept of Mech Engg, YCCE, Nagpur	E8 -
11	Dr. B.Y. Bagde	Head, Dept of Electrical Engg, YCCE, Nagpur	droly
12	Dr. P.T. Karule	Head, Dept of Electronics Engg, YCCE, Nagpur	Creaming 0
13	Dr. M.S. Narlawar	Head, Dept of Eletronics and Telcomm, YCCE, Nagpur	Blazawa
14	Dr. Mrs. G.M. Dhopavkar	Head, Dept of Computer tech, YCCE, Nagpur	Gnichoparkar
15	Dr. R.C. Dharmik	Head, Dept of Information Tech, YCCE, Nagpur	38.
16	Dr. Mrs.Manjusha P. Gandhi	Head, Dept. of Mathematics and Humanities, YCCE, Nagpur	mthelly'
-7	Dr. J.R. Ghulghule	Head, Physics, YCCE, Nagpur	2
18	Dr. Mrs. Jyoti V. Miskin	Head, Dept of Chemistry, YCCE, Nagpur	Calan o
19	Dr. P.K. Dakhole	Registrar, YCCE	Euch-
20	Dr. A.R. Bhagat Patil	Asso. Professor in Computer Technology, YCCE, Nagpur; and Dean (P&D)	Aruind
21	Prof. D.R. Raut	Associate Professor in Civil Engg, YCCE, Nagpur; and Controller of Examinations	DATE OF THE PROPERTY OF THE PR
22	Dr. M.M. Raghuwanshi	Professor in Information Technology, YCCE, Nagpur; and Chairman of Result Review & Moderation Committee	Shaphung)
23	Dr. A.M. Pande (Invitee)	Professor in Civil Engg, YCCE, Nagpur; and Director (R&D)	Alond
24	Dr. A.V. Patil (Invitee)	Professor in Civil Engg, YCCE, Nagpur; and Chairman of Self Assessment of Autonomy	Da
25	Prof. Aniket P. Munshi (Invitee)	A.P. in Electrical Engg, YCCE, Nagpur	Lo A
26	Dr. A.V. Bapat, Member Secretary	Professor in Electronics Engineering, YCCE, Nagpur; and Dean Academic Matters	A Bapak



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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 August2017** 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. Chandrashekhar Joshi, Fujitsu Consulting India, Pune	19	Prof. Arvind Bhagatpatil,Dean (P & D)
8	Dr. Shantanu R. Khandeshwar, HoD, Civil Engg.	20	Dr. K.K. Bhoyar, 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		

Lea	ve 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.

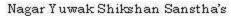
The AC unanimously approved the minutes of Sixteenth meeting of Academic Council held on 25th Feb. 2017 and Action Taken Report thereof.

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			
	UG-3	CV1203: Geotechnical Engineering-I			
	UG-5	CV1307: Structural Analysis-I			
	UG-6	CV1333: Geotechnical Engineering-II			
Civil Engineering	UG-5	CV1302: Lab. Surveying-II			
	UG-7	CV1442: Lab. Computer Application in Civi Engineering			
	UG-8	CV1424: Comprehensive Viva Voce			
1000 - 1000 - 100	PG-3	EL1938-PE-4: Power Electronics for Renewable Energy Systems_>20			
Electrical Engineering	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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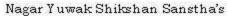
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Engineering	PG-3	EE1987: VLSI for Wireless Communication
Electronics &	UG-8	ET1419- Power Electronics
Telecommunication Engineering	UG-3	El1201: Network Analysis
Computer Technology	UG	Ct1203: Data Structure
	UG-8	IT1419: Software Testing IT1403: Principles of Compiler Design IT1423:PE-4: Human Computer Interaction
Information Technology	UG-1 & 2	IT1101: Introduction to Computer Programming
NESCONDINE!	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	UG-7	EL1431: PE 2: Advance Control System
Engineering	PG-1	EL1901: Advance Power Electronics
Electronics & Telecommunication Engineering	UG-3	El1201: Network Analysis
Computer Technology	UG	Ct1203: Data Structure





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	100	IT1207: Lab. Microprocessor Based System							
	UG-3	Design							
		(T1205: Lab. Algorithms & Data Structures							
	UG-4	IT1210:Lab. Computer Workshop							
	00-4	IT1203: Lab. Object Oriented Programming							
		IT1304: Lab. Operating Systems							
	UG-5	IT1306: Lab. Software Engineering							
		IT1317: Lab. Data Base Management Systems							
	UG-6 UG-7	IT1339: Lab. Computer Networks							
		(T1331: Lab. Business Intelligence							
Information		IT1332: Lab. Design & Analysis of Algorithms							
Technology		IT1404: Lab. Principle of Compiler Design							
		IT1418: Lab. Network Programming							
		IT1428: Lab. Data Mining							
		IT1431: Lab Network Security							
		IT1433: Lab. Cloud Computing							
	(1) (E) (E) (E) (E) (E)	IT1438: Lab. Human Computer Interaction							
	UG-8	IT1435: Lab. Software Quality Assurance							
	1,1000,001,011	IT1437: Lab. Pattern Recognition							
		IT1439: Lab. Coding Standard and Technical							
		Documentation							
	- 18	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 Englisth-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)

		3	С	ONT	ACT	HOURS	Credits					
Sr. No.	Cours e Code	Cours e Title	L	1	P	Total Contact Hours		MSE-	% Weigh MSE - II	TA	ESE	ESE Duration Hrs.
	33 S	÷	S	EME	STE	R VII Grou	р "A"	#*	\$h			
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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	Professi	ional Elective 3		- 0				ā	2)	£2 -		
	IT1407	PE3: Real Time Systems										
	IT1423	PE3: Human Computer Interaction			0 0							
8	IT1429	PE3: Advanced Computer Architecture	3	0		3	3	15	15	10	60	3 Hrs
	IT1430	PE3: E-Commerce										
	IT1432	PE3: Cloud Computing										
	IT1436	PE3: Coding Standard and Technical Documentation										
	Professi	ional Elective 4							~	~ 1		
	IT1415	PE4: Neural Networks & Fuzzy Logic	- 434 - 434	1/4/400	484		3 3 15 15 1	99000	94336 3469T	6262	4745748974	
9	IT1405	PE4: Pattern Recognition	3	0	0	3		10	60	3 Hrs		
	IT1421	PE4: Distributed Systems						0				
	Lab Professional Elective 4						1			n i		
10	IT1416	PE4: Lab : Neural Networks & Fuzzy Logic		0	-	2 2 1 15 15	15	10	60	3 Hrs		
10	IT1439	PE4: Lab: Pattern Recognition	0		-			15	15	10	60	o nis
	IT1440	PE4: Lab: Distributed System										
		Total	20	1	8	29	25					
			SI	ME	STER	VII Grou	ıp "B"					
1	IT1424	Industrial Project (Industry Visit/Training/Seminar)	0	0	30	30	20		60	40	60	
2	IT1426	Extra Curricular Activity	0	0	0	0	2			100		
3	IT1425	Comprehensive Viva- Voce	0	0	0	0	3		S.		100	
		Total	0	0	30	30	25		2			
		Total All	20	1	38	59	50	-				
		TUGIAN	20	160	30	39	30					



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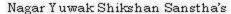
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Department of Information Technology

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

						HOURS			% Weigh	ntage		5000000
Sr. No.	Cours e Code	Cours e Title	L	Т	Р	Total Contact Hours	Credits	MSE-	MSE-	TA	ESE	ESE Duration Hrs.
	å: vi	,	CI	-ME	STEE	₹ VIII Grou	р "Д"	10	S.	\$k		0
		Industrial Project	31	T	JILI	VIII GTOU	ря				Г	Ι
7	IT1424	(Industry Visit/Training/Seminar)	0	0	30	30	20	ev	10	40	60	
2	IT1426	Extra Curricular Activity	0	0	0	0	2			100		
3	IT1425	Comprehensive Viva- Voce	0	0	0	0	3	(g) (G)			100	
		Total	0	0	30	30	25					
	~	,		* -		W 3	4	(i)	15	** 3		
	g		SI	ME	STEF	VIII Grou	р "В"	<i>a</i>	2	0	e s	8
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	ev	10	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	თ	0	0	3	3	15	15	10	60	3 Hrs
	Professional Elective 3								267			
	IT1407	PE3: Real Time Systems										
	IT1423	PE3: Human Computer Interaction								10		
8	IT1429	PE3: Advanced Computer Architecture	3	0	0	3	3	15	15		60	3 Hrs
	IT1430	PE3: E-Commerce	107	7.6963	177	117	255	excett:	20080	29655	0303	manufered.
	IT1432	PE3: Cloud Computing										
	IT1436	PE3: Coding Standard and Technical Documentation										
9	Professi	onal Elective 4	3	0	0	3	3	15	15	10	60	3 Hrs
3	IT1415	PE4: Neural Networks	J	U		3	3	15	12	10	00	2 LIS





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	8	& Fuzzy Logic							2	2		
	IT1405	PE4: Pattern Recognition										
	IT1421	PE4: Distributed Systems										
	Lab Pro	fessional Elective 4			ē 28		26	87	8		3	
10	IT1416	PE4: Lab : Neural Networks & Fuzzy Logic	0	0	2	2	1	15	15	10	60	3 Hrs
Ju i	IT1439	PE4: Lab: Pattern Recognition		0								
	IT1440	PE4: Lab: Distributed System			5 58			6		26 c		
	0	Total	20	1	8	29	25	100	30			
	20 00				3 30		10	39 30	er.	** :	ž ,	
		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. Closer of following Post Graduate programme
 - 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 item 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

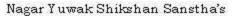
There are no changes proposed in the Examination Manual.

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.



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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.

- Dr. Shivpraksh suggested so that NIRF ranking of the college should improve to less than 100.
- Dr. M.D. Choudhary suggested that the coursed 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.
- Mr. Sunil C. Panchbhai, LG Electronics, Pune suggested to increase programs on entrepreneurship. He also offered to help in interaction with sine IIT Mumbai.
- Mr. Chandrashekhar Joshi, Fujitsu Consulting India, Pune suggested that new courses such as Al,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



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Academic Council 2016-18 17th Meeting 26th August 2017 '

SN	MEMBERS	Affiliation	Signature			
23	Dr. U.P. Waghe	Professor in Civil Engg, YCCE, Nagpur, and Principal	C.B.			
2	Dr. M.D. Choudhari	Professor in Chemistry, BD College of Engineering, Sevagram Dist Wardha	- Jenny			
3	Dr. V.H. Tatwawadi	Principal, DBA College og Engg., Wanadongri, Nagpur	hands			
4	Dr. G.H. Agrawal	Professor and Head, Dept of Electrical Engg, KDK College of Engg, Nagpur	aff.			
15	Prof. Dr. N.C. Siva Prakash, Professor, IISc, Bangalore	Department of Instrumentation and Applied Physics, Indian Institute of Science, Bangalore 560 012	100			
6	Mr. Sunii C. Panchbhai	Dy General Manager, Team Head-Development, LG Electronics India Pvt Ltd., Plot No. A-5,MIDC Ranjangaon, Tal Shirur, Pune- 412209	Scharth			
7	Mr. Rajendra Jodhpurkar	Delivery Head, Life Science & Healthcare, Persistent Systems, Software Technology Park, Near VNIT, Nagpur 440022.	TLOA			
8	Mr. Chandrashekhar Joshi	Head, Competency Unit - MIS, FUJITSU CONSULTING INDIA, A-15 MIOC Technology Park Talawade Pune 412114	Cyl.			
9	Dr. S.R. Khandeshwar	Head, Dept of Civil Engg, YCCE, Nagpur	- CAL			
10	Dr. Sharad S. Chaudhary	Head. Dept of Mech Engg. YCCE. Nagpur	08			
11	Or. R.M. Moharil	Heart, Dept of Electrical Engg, YCCE, Nagpur	Blue			
12	Dr. A.S. Khobagade	Head, Dept of Electronics Engg, YCCE, Nagpur	Aholuside.			
13	Dr. Prasanna L. Zade	Head, Dept of Eletronics and Telcomm, YCCE, Nagpur	- Accople			
14	Dr. Mrs. Kavita R. Singh	Head. Dept of Computer tech. YCCE, Nagpur	Hyl 26/08/2017			
15	Dr. Ms. Ujwalla H. Gawande	Head, Dept of Information Tech. YCCE, Negpur	Jan 26/8/17			
16	Dr. Mrs Manjusha P. Gandhi	Head, Dept. of Mathematics and Humanities, YCCE, Nagpur	2 1 Kicho 26/9/17			
17.	Dr. Mrs. S. A. Fadnavis	Hese, Physics, YCCE, Nagpur	PERIT			
18	Dr. Mrs. Jyoti V. Miskin	Head, Dept of Chemistry, YCCE, Nagpur	4 LOA.			
19	Dr. P.K. Dakhole	Professor in Electronics Engg, YCCE, Nagpur, and Registrar	2W251817			
29	Prof. A.R. Bhagat Patil	Asso. Professor in Computer Technology, YCCE, Nagpor, and Dean (P&D)	Ancina .			
21	Dr. P.T. Karule	Professor in Electronics Engg. YCCE. Nagpur, and Controller of Examinations	Ocami,			
22	Dr. K.K. Bhoyar	Professor in Information Technology, YCCE, Nagpur, and Chairman of Result Review & Moderation Committee	Short.			
23	Dr. A.V. Patil	Professor in Civil Engg. YCCE, Nagpur, and Chairman of Self Assessment of Autonomy	Wat -			
24	Prof. Aniket P. Munshi	A.P. in Electrical Engg, YCCE, Nagpur	AMunda ABapat			
25	Or. A.V. Bapat, Dean (Academic Matters)	Professor in Electronics Engineering, YCCE, Nagpur, and Dean Academic Matters	porBaper			



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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)		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 Bhoyar, Professor, Information Technology, YCCE
9	Dr. Shantanu R. Khandeshwar, HoD, Civil Engineering	21	Dr. AV. 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		300

Lea	ave 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	3	EL1202: Lab: Network Analysis
Engineering	8	EL1434: Lab: Renewable Energy Sources
Electronics Engineering	8	PE V :EE 1438 MECHATRONICS
	6	CT1349 PET: Business Intelligence and Its Applications
Computer	- 6	CT1314 : Design & Analysis of Algorithms
Technology	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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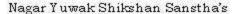
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Item 18.4 To discuss and approve UG & PG scheme of examination 2018 and syllabus for semester I to IV for academic year 2018-19 onwards

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 Engine	eering	57 (80%)		
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	87 879 17F		
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 1	echnology	GV		
3	Data Structures -I	Data Structures		
4	Data Structures -II	Advance Data Structures		
Information	Technology	Acceptance of the control of the con		
3	Data Structures and Program Design-I	Basics of Data Structures		
4	Data Structures and Program Design-II	Advance Data Structures		
Mathematic	s	50		
4	Mathematics-IV	Advance Mathematical Techniques (BR: CV,ME,EL,EE & ETC)		
	TY METERS TO THE TY	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/DAW/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.

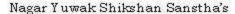
Item 18.7 To discuss and approve the changes, if any, in Examination Manual

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)



Yeshwantrao Chavan College of Engineering

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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. Chairman 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



YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING

(An Autonomous Institution affiliated to Rashtrasant Tukadoji Mahara; Nagour University) .

Hingna Road, Wanadongri, Nagour-411 110.

Academic Council 2016-18 18th Meeting 24th February 2018

-	MENIDEDE	Affiliation	Signature
SN	MEMBERS	Professor in Civil Engg, YCCE, Nagpur, and Principal	Comment
1	Dr. U.P. Waghe	Professor in Chemistry, BD College of Engineering, Sevagram	- must
2	Dr. M.D. Choudhari	Dist Wardha	233
3.	Dr. V.H. Tatwawadi	Principal, DBA College og Engg., Wanadongri, Nagpur	fant-
4	Dr. G.H. Agrawal	Professor and Head, Dept. of Electrical Engg, KDK College of Engg, Nagpur	dolar
5	Prof. Dr. N.C. Siva Prakash, Professor, IISC, Bangalore	Department of Instrumentation and Applied Physics, Indian Institute of Science, Bangalore 560 012	100
6	Mr. Sunil C. Panchbhai	Dy. Gerieral Manager, Team Head-Development, LG Electronics India Pvt Ltd., Plot No. A-5 MIDC, Ranjangson, Tal Shirur, Pune- 412209	& Chapter
7	Mr. Rajendra Jodhpurkar	Delivery Head, Life Science & Healthcare, Persistent Systems, Software Technology Park, Near VNIT, Nagpur 440022	Jefall bank
8	Mr. Chandrashekhar Joshi	Head, Competency Unit - MIS, FUJITSU CONSULTING INDIA, A-15 MIDC Technology Park Talawada Pune 412114	() - 1°
9	Dr. S.R. Khandeshwar	Head, Dept of Civil Engg, YCCE. Nagpur	- SPEK
10	Dr. Sharad S. Chaudhary	Head, Dept of Mech Engg. YCCE, Nagpur	0
1.1	Dr. R.M. Moharil	Head, Dept of Electrical Engg. YCCE, Nagpur	Bhi
12	Dr. A.S. Khobagade	Head, Dept of Electronics Engg, YCCE, Nagpur	Moderation
13	Dr. Millind M. Mushrif	Head, Dept of Eletronics and Telcomm, YCCE, Nagpur	m
14	Dr. Mrs. Kavita R. Singh	Head, Dept of Computer tech, YCCE, Nagpur	Whyh
15	Dr. Ms. Ujwalla H. Gawande	Head, Dept of Information Tech, YCCE, Nagpur	Man
16	Dr. Mrs.Manjusha P. Gandhi	Head, Dept of Mathematics and Humanities, YCCE, Nagpur	LOA
17	Dr. Mrs. S. A. Fadnavis	Head, Physics, YCCE, Nagpur	LOA
18	Dr. Mrs. Jyoti V. Miskin	Head, Dept of Chemistry, YCCE, Nagpur	(100)
19	Dr. P.K. Dakhole	Professor in Electronics Engg, YCCE, Nagpur, and Registrar	511
20	Prof. A.R. Bhagat Patil	Asso. Professor in Computer Technology, YCCE, Nagpur, and Dean (P&D)	Arend.
21	Dr. P.T. Karule	Professor in Electronics Engg, YCCE, Nagpur, and Controller of Examinations	acame
22	Dr. K.K. Bhoyar	Professor in Information Technology, YCCE, Nagpur, and Chairman of Result Review & Moderation Committee	85
23	Dr. A.V. Patil	Professor in Civil Engg, YCCE, Nagpur, and Chairman of Self Assessment of Autonomy	Open -
24	Prof. Aniket P. Munshi	A. P. in Electrical Engg. YCCE, Nagpur	AMunshi
25	Dr. A.V. Bapat, Dean (Academic Matters)	Professor in Electronics Engineering, YCCE, Nagpur, and Dean Academic Matters	As Bapa 12



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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 **03**rd **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 Mathema				
4	4 Dr. G.H. Agrawal, KDK College of Engg, Nagpur (VC's Nominee)					
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. Bhoyar, 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

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.
 - 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
 - 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.
 - Prof. Dr. N.C. Siva Prakash, Professor, Department of Instrumentation and Applied Physics, Indian Institute of Science, Bangalore 560 012
 - 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,
 - Mr. Rajendra Jodhpurkar, Delivery Head, Life Science & Healthcare, Persistent Systems, Software Technology Park, Near VNIT, Nagpur 440022.
 - 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
 - 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

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:

Crada	Marks						
A+ A B+ B C+ C	From	То					
Α+	90	100					
Α	80	89 79					
B+	70						
В	62	69					
C+	58	61					
С	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

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YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING

Hingna Road, Wanadongri, Nagpur-411 110.

Academic Council 2016-18 16th Meeting 25th Feb. 2017

SN	MEMBERS	16th Meeting 25th Feb. 2017 Affiliation	Signature			
SIA		Armiation	Signature			
1	Dr. U.P. Waghe	Professor in Civil Engg. YCCE, Nagpur, and Principal	Contra Co			
2	Dr. M.D. Choudhari	Professor in Chemistry, BD College of Engineering, Sevagram Distill Wardha	= 35 cmm			
3	Dr. V.H. Tatwawadi	Principal, DBA College og Engg., Wanadoogn, Nagpur	hard.			
4	Dr. G.H. Agrawal	Professor and Head, Dept. of Electrical Engg, KDK College of Engg. Nagpur	Joh -			
5	Prof. Dr. N.C. Siva Prakash, Professor, IISc, Bangalore	Department of instrumentation and Applied Physics, Indian Institute of Science, Bangalore 560 012	101			
б	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	Rond			
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 Puhe 412114	Cy-			
9	Dr. Sudhir V. Ambekar	Head, Dept of Civil Engg. YCCE, Nagpur	15vil			
10	Dr. Sharad S. Chaudhary	Head, Dept of Mach Engg. YCCE, Nagpur	Q			
11	Dr. R.M. Moharil	Head, Dept of Electrical Engg, YCCE, Nagpur	(B)			
12	Dr. Mrs. S. V. Rathkanthiwar	Head, Dept of Electronics Engg, YCCE, Nagpur	ORS.			
13	Dr. Prasanna L. Zade	Head, Dept of Eletronics and Telcomm, YCCE, Nagpur	3			
14	Dr. Mrs. Kavita R. Singh	Head, Dept of Computer tech, YCCE, Nagpur	15/1/2 25/02/2			
15	Dr. Ms. Ujwalla H. Gawande	Head, Dept of Information Tech. YCCE, Nagpur	My 25/2			
16	Dr. Mrs.Manjusha P. Gandhi	Head, Dept. of Mathematics and Humanities, YCCE, Nagpur	14 15 12/17			
17	Dr. Mrs. S. A. Fadnavis	Head, Physics, YCCE, Nagpor	(SAIT			
18	Dr. Mrs. Jyoti V. Miskin	Head, Dept of Chemistry, YCCE, Nagpur	o loA			
19	Dr. P.K. Dakhole	Professor in Electronics Engg. YCCE. Nagpur, and Registrar	aux.			
20	Dr. P.T. Karule	Professor In Electronics Engg. YCCE, Nagguir, and Controller of Exammations	Ckand			
21	Dr. K.K. Bhoyar	Professor in Information Technology, YCCE, Nagpur, and Chairman of Result Review & Moderation Committee.	Bush.			
22	Dr. A.V. Patil	Professor in Civil Engg, YCCE, Naggour, and Chairman of Self Assessment of Autonomy	de			
23	Prof. Aniket P. Munshi	A.P. in Electrical Engg. YCCE, Nagpur	A Munzhi			
24	Dr. S.D. Bhole, Dean (Academic Matters)	Asso. Professor in Civil Engg. YCCE, Nagpur; and Dean Academic Matters	DAL			



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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 **25**th **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. Bhoyar, 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.

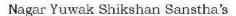
The AC approved unanimously the minutes of Fifteenth meeting of Academic Council held on 03 September 2016 and Action Taken Report thereof.

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
	CV1210 Surveying-I
	CV1214 Building Construction and Building Drawing
	CV1301 Surveying -II
	CV1329 OE I: Construction Techniques
Civil	CV1331 Reinforced Concrete Structures
CIVII	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
Control of the Contro	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
Civil	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
	EL1203:Electrical Machines I
	EL1321:Testing and Maintenance of Electrical Machines,
	EL1302:Power Electronics,
Electrical	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
	EE1203-Digital Circuits
Electronics	EE1416-Biomedical Instrumentation & Its Application
Licotromos	EE1905-Advanced Communication
	EE1951 VLSI Signal Procession
Electronics &	
Telecommunication	ET1401-RF and Microwave
	CSE 1902 Real Time Systems
	CSE1915 Software Architecture
Computer	CSE 1919 Data Warehousing
Technology	CSE 1920 Wireless Sensor Network
	CSE 1923 Computer Vision
	CSE 1924 Natural Language Processing
	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
Information	IT1307 Computer Graphics
Technology	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
<u>:</u>	





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

BRANCH	Course Code & Name
	CV1301 Surveying -II
	CV1331 Reinforced Concrete Structures
	CV1342 OE II: Air Pollution and Solid Waste Management
	CV1422 Transportation Engineering -II
cv	CV1428 PE IV: Earthquake Engineering
CV	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
СТ	CT1205 Programming Language Concepts & Constructs
VI	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

- 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:

- ≠ 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

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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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 itesm 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	16th Meeting 25th Feb. 2017 Affiliation	Signature			
SIA		Armiation	Signature			
1	Dr. U.P. Waghe	Professor in Civil Engg. YCCE, Nagpur, and Principal	Contra Co			
2	Dr. M.D. Choudhari	Professor in Chemistry, BD College of Engineering, Sevagram Distill Wardha	= 35 cmm			
3	Dr. V.H. Tatwawadi	Principal, DBA College og Engg., Wanadoogn, Nagpur	hard.			
4	Dr. G.H. Agrawal	Professor and Head, Dept. of Electrical Engg, KDK College of Engg. Nagpur	Joh -			
5	Prof. Dr. N.C. Siva Prakash, Professor, IISc, Bangalore	Department of instrumentation and Applied Physics, Indian Institute of Science, Bangalore 560 012	101			
б	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	Rond			
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 Puhe 412114	Cy-			
9	Dr. Sudhir V. Ambekar	Head, Dept of Civil Engg. YCCE, Nagpur	15vil			
10	Dr. Sharad S. Chaudhary	Head, Dept of Mach Engg. YCCE, Nagpur	Q			
11	Dr. R.M. Moharil	Head, Dept of Electrical Engg, YCCE, Nagpur	(B)			
12	Dr. Mrs. S. V. Rathkanthiwar	Head, Dept of Electronics Engg, YCCE, Nagpur	ORS.			
13	Dr. Prasanna L. Zade	Head, Dept of Eletronics and Telcomm, YCCE, Nagpur	3			
14	Dr. Mrs. Kavita R. Singh	Head, Dept of Computer tech, YCCE, Nagpur	15/1/2 25/02/2			
15	Dr. Ms. Ujwalla H. Gawande	Head, Dept of Information Tech. YCCE, Nagpur	My 25/2			
16	Dr. Mrs.Manjusha P. Gandhi	Head, Dept. of Mathematics and Humanities, YCCE, Nagpur	14 15 12/17			
17	Dr. Mrs. S. A. Fadnavis	Head, Physics, YCCE, Nagpor	(SAIT			
18	Dr. Mrs. Jyoti V. Miskin	Head, Dept of Chemistry, YCCE, Nagpur	o loA			
19	Dr. P.K. Dakhole	Professor in Electronics Engg. YCCE. Nagpur, and Registrar	aux.			
20	Dr. P.T. Karule	Professor In Electronics Engg. YCCE, Nagguir, and Controller of Exammations	Ckand			
21	Dr. K.K. Bhoyar	Professor in Information Technology, YCCE, Nagpur, and Chairman of Result Review & Moderation Committee.	Bush.			
22	Dr. A.V. Patil	Professor in Civil Engg, YCCE, Naggour, and Chairman of Self Assessment of Autonomy	de			
23	Prof. Aniket P. Munshi	A.P. in Electrical Engg. YCCE, Nagpur	A Munzhi			
24	Dr. S.D. Bhole, Dean (Academic Matters)	Asso. Professor in Civil Engg. YCCE, Nagpur; and Dean Academic Matters	DAL			

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



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B.E. SCHEME OF EXAMINATION 2014 Civil Engineering

	Course Code	Course Title		Contact Hours				% Weightage				ESE
SI. No.			L	т	Р	Total Contact Hours	Credi ts	MSE-I	MSE-II	TA	ESE	Duration Hrs.
			THIRD	SEN	MEST	ER						
10	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	ેલ ુ			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	4			40	60	
		Total	16	4	8	28	24					

FOURTH SEMESTER

Ch	airperson	Dean (Acad. Matters)	v	1.00 ersid		A SHOPS	May 201	함 같	Арр	licable fo Onw		15-16
		Total	22	2	8	32	28					
10	CV1216	Engineering Hydrology	4	0	0	4	4	15	15	10	60	3
9	CV1215	Lab: Computer Aided Building Drawing	0	0	2	2	34			40	60	
8	CV1214	Building Construction and Building Drawing	4	0	0	4	4	15	15	10	60	4
7	CV1213	Lab: Environmental Engineering-I	0	0	2	2	ij			40	60	
6	CV1212	Environmental Engineering-I	3	1	0	4	4	15	15	10	60	3
5	CV1211	Lab: Surveying-I	0	0	2	2	×,	s. = 3.		40	60	
4	CV1210	Surveying-I	3	1	0	4	4	15	15	10	60	3
3	CV1209	Lab: Concrete Technology	0	0	2	2	্ৰ	2		40	60	
2	CV1208	Concrete Technology	4	0	0	4	4	15	15	10	60	3
1	GE 1204	Advanced Mathematical Techniques	4	0	0	4	4	15	15	10	60	3



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Civil Engineering

Sno	Sub Code	Subject	6		onta		Credits	9	6 Weigh	tage		E SE Duration
	Code		I			Total		MSE-I	MSE-II	TA	ESE	Hrs.
	OF4044		SEMES	_	_	2	200	4.5	46	40	00	2
1	+C1305019*12020000000	Fundamental of Management	3	-	0	3	3	15	15	10	60	3
2		Surveying - II	4	0	0	4	4	15	15	10	60	3
3	CV1302	Lab: Surveying -II	0	0	2	2	1	5 52		40	60	t.
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 Ele	ective I						0 0		- E		5
	CV1325	OE I : Environmental Management		l	П							
8	CV1327	OE I: Building Services Engineering	3	0	0	3	3	15	15	10	60	3
	CV1329	OE I : Construction Techniques		l	П							
	CV1330	OE I: Transportation Engineering Basic		L	Ш							
9	CV1331	Reinforced Concrete Structures	3	1	0	4	4	15	15	10	60	4
		Total	20	2	6	28	25	2 27		GI 16		
		SIXTH	SEMES	ST	ER							
1	GE1312	Fundamental of Economics	3	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	55
4	CV1332	Steel Structures	3	1	0	4	4	15	15	10	60	4
5	C/4333	Geotechnical Engineering II	4	10	0	4	4	15	15	10	60	3

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	57
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
	Profession	onal Elective I		Г	П							
ı	CV1315	PE I: Water Treatment		ı								
82	CV1316	PE I : Prestressed Concrete		-25	62	26	82	1015	898	100000	92365	
6	CV1317	PET:Building Services	3	0	0	3	3	15	15	10	60	3
ı	CV1323	PE I:Pavement Design	ľ	ı								
ı	CV1324	PE I:Geotechnical Investigation & Ground		l								
ı	CV1325	Improvement Techniques PE I:Project Planning & Management		ı								
<u> </u>				L	Ц							
	Open Ele	Production 194 (1957)		T								
	CV1341	OE II: Elements of Earthquake Engineering		ı								
·**	CV1342	OE II: Air Pollution and Solid Waste Management	,	_			0	gare.	ar.	40	-00	
7	CV1343	OE II: Introduction to Finite Element Method	3	U	0	3	3	15	15	10	60	3
	CV1344	OE II: Disaster Management	1	l								
(0	CV1345	OE II: Environmental Impact Assessment				ge 3		30 33	i c	10 ti		o
8	CV1314	Seminar	0	0	2	2	1	JE 20	.9	100		57 57
		Total	19	2	4	25	23					

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



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B.E. SCHEME OF EXAMINATION 2014

Sno	Sub Code	Subject	6	Н	out	rs	Credits		Weigh	· · · · · · · · · · · · · · · · · · ·		E SE Duration
-	Code	DEVENTU	L		P	Total		MSE-I	MSE-II	TA	ESE	Hrs.
1	CV1401	SEVENTH Water Resource Engineering	3 3	1	0	4	4	15	15	10	60	3
2	a second contract	Structural Analysis-II	3	1	0	4	4	15	15	10	60	3
-	-	Lab: Structural Analysis-II	0	0	2	2		10	10	40	60	3
4	Activities and the second	Transportation Engineering –II	-	-		4	1 4	15	15	10	60	3
2.00	200000000000000000000000000000000000000		4	0	0	88	4	100	0.001	2000	900	
5	magratura and	Environmental Engineering -II Lab : Computer Applications in Civil	4	-		4	28 52	15	15	10	60	3
6	CV1442	Engineering	0	0	2	2	1	34		40	60	83
	Profession	onal Elective II							-	J. J.		
	CV1410	PE II: Traffic Engineering		ı								
	CV1411	PE II: Advanced Hydraulics		ı								
7	CV1413	PE II: Natural Resources Management]3		0	3	3	15	15	10	60	3
æ	CV1443	PE II: Optimization Techniques		ľ	U	0	3	31:0	ദാ	10	ου	٥
	CV1444	PE II: Structural Dynamics	-5	ı								
		PE II: Soil Dynamics	-	ı								
	CV1459	Figure Computer Applications in Civil			Ш							
	CV1406	Industrial Training/ CRT	0	0	0	0	2			100		
8	CV1407	Project- Phase I	0	0	4	4	4		E.	40	60	85
		Total	17	2	8	27	27					
	5	EIGHTH S	EME	S	ΓER				25	31. J		
21.7	CV1421	Estimating & Costing	3	4	0	70	4	15	15	10	60	4
1			_	1		4	243	3	313	10	OU	
1	Profession	onal Elective III	Ť			- 4	24.8	13	13	10	00	
1	CV1446	PE III: New Engineering Materials		.21.		- 4	248	13	313	10	00	
	CV1446 CV1447	PE III: New Engineering Materials PE III: Advanced RCC										
2	CV1446 CV1447 CV1448	PE III: New Engineering Materials PE III: Advanced RCC PE III: Remote Sensing and GIS		0	0	3	3	15	15	10	60	3
	CV1446 CV1447 CV1448 CV1449	PE III: New Engineering Materials PE III: Advanced RCC PE III: Remote Sensing and GIS PE III: Earth and Earth Retaining Structures		0								
	CV1446 CV1447 CV1448 CV1449 CV1450	PE III: New Engineering Materials PE III: Advanced RCC PE III: Remote Sensing and GIS PE III: Earth and Earth Retaining Structures PE III: Watershed Management		0								
	CV1446 CV1447 CV1448 CV1449 CV1450 CV1451	PE III: New Engineering Materials PE III: Advanced RCC PE III: Remote Sensing and GIS PE III: Earth and Earth Retaining Structures PE III: Watershed Management PE III: Urban Transportation Planning		0								
	CV1446 CV1447 CV1448 CV1449 CV1450 CV1451 Profession	PE III: New Engineering Materials PE III: Advanced RCC PE III: Remote Sensing and GIS PE III: Earth and Earth Retaining Structures PE III: Watershed Management PE III: Urban Transportation Planning		0								
	CV1446 CV1447 CV1448 CV1449 CV1450 CV1451 Professio	PE III: New Engineering Materials PE III: Advanced RCC PE III: Remote Sensing and GIS PE III: Earth and Earth Retaining Structures PE III: Watershed Management PE III: Urban Transportation Planning onal Elective IV PE IV: Wastewater Treatment		0								
	CV1446 CV1447 CV1448 CV1450 CV1451 Profession CV1427 CV1428	PE III: New Engineering Materials PE III: Advanced RCC PE III: Remote Sensing and GIS PE III: Earth and Earth Retaining Structures PE III: Watershed Management PE III: Urban Transportation Planning										
2	CV1446 CV1447 CV1448 CV1449 CV1450 CV1451 Professio CV1427 CV1428 CV1429	PE III: New Engineering Materials PE III: Advanced RCC PE III: Remote Sensing and GIS PE III: Earth and Earth Retaining Structures PE III: Watershed Management PE III: Urban Transportation Planning onal Elective IV PE IV: Wastewater Treatment PE IV: Earthquake Engineering	3		0	3	3	15	15	10	60	3
2	CV1446 CV1447 CV1448 CV1450 CV1451 Professio CV1427 CV1428 CV1429 CV1452	PE III: New Engineering Materials PE III: Advanced RCC PE III: Remote Sensing and GIS PE III: Earth and Earth Retaining Structures PE III: Watershed Management PE III: Urban Transportation Planning onal Elective IV PE IV: Wastewater Treatment PE IV: Earthquake Engineering PE IV: Matrix Analysis of Structures	3		0	3	3	15	15	10	60	3
2	CV1446 CV1447 CV1448 CV1450 CV1451 Profession CV1427 CV1428 CV1429 CV1452 CV1453	PE III: New Engineering Materials PE III: Advanced RCC PE III: Remote Sensing and GIS PE III: Earth and Earth Retaining Structures PE III: Watershed Management PE III: Urban Transportation Planning onal Elective IV PE IV: Wastewater Treatment PE IV: Earthquake Engineering PE IV: Matrix Analysis of Structures PE IV: Advanced Surveying	3		0	3	3	15	15	10	60	3

Add. Sub: 7-CV1459 PE: CAICE

5 CV1424 Comprehensive Viva-voce

PE V: Advanced Steel Design

PE V: Finite Element Method

PE V. Design of Bridge Structures

Total

PE V: Maintenance and Rehabilitation

PE V: Advanced Geotechnical Engineering

PE V: Advanced Foundation Engineering

Extra / Co-curricular / Competitive Examination

Chairperson	TAK.	Version	1.02	Applicable for AY
Dean (Acad. Matters)	An Angelo	Date of Release	April 2018	2018-19 Onwards

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Yeshwantrao Chavan College of Engineering

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

B.E. SCHEME OF EXAMINATION 2014

Mechanical Engineering

2,7	r.c	Contact Hours e Total Credit			% Weightage				ESE			
SI. No.	Course Code	Course Title	L	T	Р	Total Contact Hours	Credit s	MSE-I	MSE-II	TA	ESE	Duration Hrs.
			THIE	RD SE	MEST	TER						
7	GE1201	Engineering Mathematics - III	3	1	0	4	4	15	15	10	60	3
2	ME1201	Material Science & Metallurgy		0	Ö	0	3	15	15	10	60	3
3	ME1202	Lab: Material Science & Metallurgy.	O	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	Ö	0	2	2	4			40	60	ë
		Total	16	2	6	24	24					
104	111		FOUR	RTHS	EMES	TER	2					
7	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	2
8	ME1217	Manufacturing Processes - II	3	0	0	3	3	15	15	10	60	3
9	ME1218	Lab: Manufacturing Processes - II	O	0	2	2	4			40	60	
		Total	20	2	6	28	25					
284	31.	للاهد		1.00		М	ay 2015		Appli			2015-16
Cha	airperson	Dean (Acad. Matters)	V	'ersio	n	Date	of Relea	se		On	w ards	





Yeshwantrao Chavan College of Engineering (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University) B.E. SCHEME OF EXAMINATION 2014

Mechanical Engineering

SI.No.	Sub Code	Subject	С	ONTAC	T HOU	RS	Crodite		% Weight	tage		ESE
SI.NO.	Sub Code	•	L	Т	Р	Total	Credits	MSE- I	MSE- II	TA	ESE	Duration
		FIFTH SEMESTI	R									
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	10		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	
	Open Elective		20 26	3		12.						8
9	ME1315	OE-I:Operations Research Techniques	3	0		3	3	15	15	10	60	2
9	ME1317	OE-l:Automobile Engineering] 3	0	0	3	3	15	15	10	60	3 Hours
	ME1321	OE-I:Plastic Engineering										
10	ME1334	Industrial Visit	0	0	1	1	1			100		
•		Total	20	0	7	27	24	.4				

		SIXTH SEMESTE	R									J.
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	9
7	ME1320	Control System Engineering	3	1	0	4	4	15	15	10	60	3 Hours
5,7	Open Elective	e-II	(8)						4			9 8
8	ME1331	OE-II:Total Quality Management	3	0	0	3	3	15	15	10	60	3 Hours
	ME1332	OE-II:Reliability Engineering	3	U		3	3	10	13	10	00	3 Hours
g =======	ME1333	OE-II: Power Generation Engineering	8			ę.		1				
9	ME1325	Seminar Based On Mini Project	0	0	2	2	1	1		100		
		Total	16	2	10	28	23					

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



Yeshwantrao Chavan College of Engineering (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University) B.E. SCHEME OF EXAMINATION 2014

Mechanical Engineering

SI.No.	Sub Code	Subject	С	ONTAC		1000	Credits	Š - 5	%Weight	age		ESE
31.140.	300 G0GE	SEVENTH SEMES	L	T.	Р	Total	or early	MSE- I	MSE II	TA	ESE	Duration
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
	Professional		-			2 27 23						
	ME1401	PE-I: Tool Design	12									
	ME1402	PE-I: Material Handling Systems	3 3					15				
	ME1404	PE-I: Engineering Of Plastics	1									
-	ME1405	PE-I: Project Evaluation & Management				72	52	ac-	ae-	400	200	833700000
3	ME1449	PE-I: Computational Fluid Dynamics	4	0	0	4	4	15	15	10	60	3 Hours
	ME1456	PE-I: Advanced Manufacturing Techniques										
	ME1461	PE-I: Rapid Prototyping										
	ME1462	PE-I: Fuel Cells Technology										
	ME1463	PE-I: Data Structure and Algorithm										
	Professional	Elective - II										
	ME1408	PE-II: Synthesis Of Mechanism	1									
	ME1409	PE-II: Finance & Cost Management	12 									
	ME1410	PE-II: Renewable Energy System	TE .									
4	ME1411	PE-II: Artificial Intelligence		0	0	4	4		15	10	60	Ollows
4	ME1412	PE-II: Maintainance Management	4	U:	U:	4	4	010	100	8102	ಿರಿಟ	3 Hours
	ME1465	PE-II: Energy Management										
	ME1466	PE-II: Design For Manufacturing & Assembly										
	ME1467	PE-II: Quantitative Techniques									· c	
	ME1468	PE-II: Database Management System										
	Professional	Elective - III										
	ME1406	PE-III: Finite Element Methods										
	ME1417	PE-III: CIM										
5	ME1419	PE-III: I.C. Engines	4	0	0	4	4	16	15	10	60	3 Hours
Ü	ME1421	PE-III: Refrigeration & Air Conditioning	- 4	U.	U.		4	13	10	300	60	a muuis
	ME1445	PE-III: Mechatronics										
	ME1469	PE-III: Refrigeration & Cryogenics										
514	ME1476	PE-III: Machine Tool Design					574	E C				S
	Lab.: Professi	onal Bective - III										
	ME1407	Lab. : PE-III: Finite Element Methods	8-2 8-3									
	ME1418	Lab. : PE-III: CIM										
6	ME1420	Lab. : PE-III: 1.C. Engines	0	0	2	2	1			40	60	
8	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		2
		Total	18	0	6	24	25	55 G			8	
Chairpe	erson	Bhami		Version	6	f	1.01		20,000,000	Special Service	2000	
- All Pi	aneed!	Vacarior			15		es ees t:		Applic	ablef	or AY	2017-18

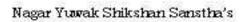
Date of Release

May 2017

Onwards

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Yeshwantrao Chavan College of Engineering (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University) B.E. SCHEME OF EXAMINATION 2014

Mechanical Engineering

SI.No.	Sub Code	Subject	С	ONTAC	T HOU	RS Total	Credits	MCE	%Weight	age	ECE	ESE
	19. 2004000.000.00000	EIGHTH SEMEST	ER		E 5	Total		IVIDE- I	141215-11	IA	E9E	Duration
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	Optimis ation Techniques	3	1	0	4	4	15	15	10	60	3 Hours
	Professional	Elective · M	-	•						•	•	d ·
	ME1415	PE-IV: Vibration	:2 :::									
	ME1437	PE-IV. Industrial Fluid Power										
4	ME1439	PE-IV: Onc & Robotics	4	0	0	4	4	15	15	10	60	3 Hours
4	ME1441	PE-IV: Vehicle Engineering	- 4	U	U.	-4	4	li)	10.	30.3	bu	a nuuis
	ME1443	PE-IV: MIS										
	ME1478	PE-IV: Solar Energy and Utilization										
. 53	ME1480	PE-IV. Design For Fatigue and Fracture					5	Ka II.			L.	
	Lab.: Profess	ional Bective - IV	247									
	ME1416	Lab. : PE-IV: Vibration										
	ME1438	Lab.: PE-IV: Industrial Fluid Power	100									
æ	ME1440	Lab. : PE-IV: Cnc & Robotics		0	2	2	4			m	60	
5	ME1442	Lab. : PE-IV: Vehicle Engineering	0	U)	2	-2	ill.			40	ьп	
	ME1444	Lab. : PE-IV: MIS										
	ME1479	Lab. : PE-IV: Solar Energy And Utilization	- 12 - 13 - 13 - 13									
	ME1481	Lab. : PE-IV: Design For Fatigue And Fracture										
	Professional	Elective · V		73	6	3 - 2				12 - 2		
	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										
6	ME1457	PE-V: Power Plant Engineering	4	0	0	4	4	15	15	10	60	3 Hours
	ME1458	PE-V: Machine Tool Design										
	ME1459	PE-V: Industrial Safety										
	ME1460	PE-V: Advance Welding Techniques	100									
	ME1482	PE-V: Air Conditioning	2					3 8 40 2				
	ME1483	PE-V: Cryogenic Systems	ar o									
	ME1484	PE-V: Tribology										
7	ME1472	C omprehensive 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	-5				
Chairpe	erson	Bhami	ſ	Version	1	Ĭ	1.02		America	-LI-2	Ap AU	20.47.40
Carrier and Carrier	cad. Matters)	No.	6	of Rel	W	2	Dec. 201	7	Applic		or Ay : vards	2017-18



Yeshwantrao Chavan College of Engineering (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

B.E. SCHEME OF EXAMINATION 2014 Flectrical Engineering

143.40	251	Elec				gineer	ing					5
· C ·			. B	Con	tact	Hours		%	Welght	age		ESE
SI. No.	Course Code	Course Title	L	т	р	Total Contact Hours	Credits	MSE-I	MSE4I	TA	ESE	Duratio Hrs.
		Third S	em e	ster					-			
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		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		e	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	,	is 48	40	60	
		TOTAL	15	3	8	26	22					
		Fourths	Seme	ste	r							
1	GE1204	Advance Mathematical Techniques	3		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	377	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					
10	That	للهد	37	1.00		М	May 2015		Applic	able	efor	AY 2018
Cha	irperson	Dean (Acad. Matters)	Ve	ersio	n	Date	of Relea	ase		16 O	nwa	rd s



Yeshwantrao Chavan College of Engineering (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University) B.E. SCHEME OF EXAMINATION 2014

Electrical Engineering

SI.No.	Sub Code	Code Subject			NT A		Credits		% Weight	age		ESE Duration
90	7.	·	L	I	Р	Total		MSE-I	MSE- II	TA	ESE	4.
		FIFTH SE	ME	STE	R							
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	3
5	EL1304	Power Station Practice	3	0	0	3	3	15	15	10	60	3 Hrs
	Open Elect	ive I										
	EL1316	OE I: Renewable Energy Generation Systems			474.00			Estable.				
6	EL1320	OE I :Electrical Machines and their applications	3	0	0	3	3	15	15	10	60	3 Hrs
	EL1321	OE I: Testing and Maintenance of Electrical Equipments	6									
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

3	EL1307	Lab.: Control System	0	0	2	2	1					
4	EL1308	Electrical Power System-II	3	Υ_	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. Electi EL1311 EL1322 EL1323	PE-I: Advanced Power Electronics PE-I: Optimization Techniques PE-I: Electrical Installation	3	0	0	3	3	15	15	10	60	3 Hrs
8	Open Elect EL1324 EL1325 EL1326	OE II:Electrical Energy Audit and Safety OE II:Utilisation of Electrical Energy OE II Power System Engineering.	3	0	0	3	3	15	15	10	60	3 Hrs
9	EL1312	Lab. : Simulation in Power Electronics & Drives	0	0	2	2	1			40	60	
10	EL1319	Seminar	0	0	2	2	1			100		
10)	10000	4000	. 38					

Chairperson	duch men los	Version	1.00	Applicable for AY 2016-17
Dean (Acad. Ma	tters)	Date of Release	May 2016	Onwards



Yeshwantrao Chavan College of Engineering

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

B.E. SCHEME OF EXAMINATION 2014

Electrical Engineering

SI.No.	Sub Code	ıb Code Subject			NTA OUR		Credits		% Weigh	tage		ESE Duration
	8 8	33	Ľ	T	Р	Total		MSE-1	MSE-II	TA	ESE	
		SEVENTH	SEN	ÆS	TER							
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	64
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	
	Prof. Electi	ve II	8									ai -
5	EL1410	PEII: FACTS Devices	3	0	0	3	3	15	15	10	60	3 Hrs
Э	EL1427	PE II: Artificial Intelligence based Systems	l	U	0	3	33	10:	15	10:	DU:	3 HIS
	EL1431	PETI: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					is .

EIGHTH SEMESTER

1	EL1416	Switchgear and Protection	3	0	0	3	3	15	15	10	60	4
2	EL1433	Renewable Energy Sources	3	0	0	3	3	15	15	10	60	
3	EL1434	Lab.:Renewable Energy Sources	0	0	2	2	14	3. 17		40	60	3
	Prof. Elect	ive III				- 23						
4	EL1411	PE III: Advanced Electrical Drives] 3	0	О	3	3	15	15	10	60	
20 11	EL1422	PE III: Power System Operation and Control	٦٠	U	U	J	3	10	13	10	00	
	EL1435	PE III: Fundamentals of Power Quality		C a	F4 15							
	Prof. Elect	ive IV	.63			2		38 - 2				
5	EL1424	PEIV: EHVAC-HVDC Transmission	3	0	0	3	3	15	15	10	60	
Э	EL1425	PEIV: Electrical Power Utilization	ا ا	Ü	ŭ	3	3	10	13	10	00	
	EL1436	PEIV: Fundamentals of Smart Grid	ľ									
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	3		3	\$	

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



Yeshwantrao Chavan College of Engineering

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

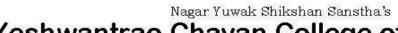
B.E. SCHEME OF EXAMINATION 2014

Electronics Engineering

200		8			tact H	ours		% Weighta				ESE
SI. No.	Course Code	Course Title		I	Р	Total Contact Hours	Credits	MSE-I	MSE-II	TA	ESE	Duration Hrs.
			THIRD SI	EMES	TER							
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	EE 1202	Lab: Electronic Devices	0	0	2	2	1		20 20	40	60	
4	EE 1203	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	EE 1205	Electronic Measurement & Instrumentation	3	0	0	3	3	15	15	10	60	3
7	EE 1206	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	
***		35	16	3	8	27	23			,0,	300 30	<u>-</u>
-		E.	OURTH 9	SEME	STER	iù.		ie.				
4	GE1204	Advance Mathematical Techniques	1 9	1	n	4	4	15	15	10	60	3

			16	3	6	25	22					
8	EE 1212	Simulation Laboratory	0	0	2	2	1			40	60	
7	EE 1211	Lab:Microprocessor & Interfacing	0	0	2	2	1			40	60	
6	EE 1210	Microprocessor & Interfacing	3	0	0	3	3	15	15	10	60	3
5	EL1217	Control System Engineering	4	0	0	-4	4	15	15	10	60	3
4	EE 1209	Lab:Electronic Circuit Analysis	0	0	2	2	1			40	60	
3	EE 1208	Electronic Circuit Analysis	3	1	0	4	4	15	15	10	60	3
2	EE 1207	Electromagnetic Fields	3	1	0	4	4	15	15	10	60	3
1	GE1204	Advance Mathematical Techniques	3	1	0	4	4	15	15	10	60	3

OBS.	لماهد	1.00	May 2015	Applicable for AY 2015-16
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Yeshwantrao Chavan College of Engineering (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

B.E. SCHEME OF EXAMINATION 2014

Electronics Engineering

s	Sub Code	Subject	Сс	nta	act	Hours	Credits		% Weigh	tage		ESE
no.		•	L	T	Р	Total		MSE - I	MSE - II	TA	ESE	Duration
		FIFTH	SE	ME	ST	ER						
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		22	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	
	Profession	al Elective-l		П								
	EE1304	PEI: Power Electronics										
6	EE1305	PEI: Advanced Instrumentation	3	0	0	3	3	15	15	10	60	3 Hrs
	EE1307	PE I: Switching Theory & Finite Automata										
	EE1324	PE I:: Computer Organisation							T.			
7	EE1310	Lab.: Electronics workshop	0	0	2	2	1			40	60	
8	EE1311	Seminar	0	0	2	2	1			100	5	
	Open Elect	ive-l							E		£	
8401	EE1320	OE I: Data Acquisition & Signal Conditioning			5 <u>2</u> 00	2040			564	384	012020	S#335F
9	EE1322	OE I: Microporcessor & Microcontroller	3	0	0	3	3	15	15	10	60	3 Hrs
	EE1323	OE I: Consumer Electronics										
		Total	19	2	8	29	25		P	j,		Î

SIXTH SEMESTER

Total	19	3	6	28	25					
EE1330 OE II: Biomedical Instrumentation					SERVICE					
OE II: Basics of Analog and Digital Communication	3	0	0	3	3	15	15	10	60	3 Hrs
EE1328 OE II: Fuzzy Logic & Neural Network	9									
oen Elective-II		İ	Ī							
EE1327 Lab.: Microcontroller & Interfacing	0	0	2	2	1			40	60	
EE1326 Micro controller & Interfacing	3	1	0	4	4	15	15	10	60	6
EE1317 Lab.: Digital System Design	O	0	2	2	1			40	60	
EE1316 Digital System Design	3	1	0	4	4	15	15	10	60	3 Hrs
EE1315 Lab.: Digital Signal Processing	0	0	2	2	1			40	60	
EE1314 Digital Signal Processing	3	1	0	4	4	15	15	10	60	
EE1303 Transmission Lines & Wave Guides	4	0	0	4	4	15	15	10	60	
GE1312 Fundamental of Economics	3	0	0	3	3	15	15	10	60	3 Hrs
GE1312			Tala	Talaa	Fundamental of Economics 3 0 0 3	Talaara Talaar				

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



Yeshwantrao Chavan College of Engineering (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

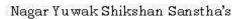
B.E. SCHEME OF EXAMINATION 2014 **Electronics Engineering**

S	Sub Code	Subject	Co	nt	act	Hours	Credits	% Weightage				ESE
no.			L	Т	Р	Total		MSE - I	MSE - II	TA	ESE	Duration
		SEVEN	TH S	SEI	MES	TER	22 2	1		× 2	57	2 S
	Professional Elective-II		120	L	П							
1	EE1 401	PEII: Embedded Systems	3	1	0	4	4	15	15	10	60	3 Hrs
	EE1 403	PETF: Digital CMOS Circuits										
	EE1 405	PE II: Algorithm & Data Structures										
	Lab Profes	sional Elective-II				S.F.	(A					30
2	EE1 402	Lab.: PEII: Embedded Systems	l n	0	2	2	1	40			60	
2	EE1 404	Lab.: PEII: Digital CMOS Circuits	300								.00	
	EE1 406	Lab.: PET: Algorithm & Data Structures								L'd		
3	EE1 407	Electronics Circuit Design	3	1	0	4	4	15	15	10	60	3 Hrs
4	EE1 408	Lab.:Electronics Circuit Design	0	0	2	2	1			40	60	
5	EE1 409	Digital Communication	3	0	0	3	3	15	15	10	60	
6	EE1 410	Lab.: Digital Communication	0	0	2	2	1			40	60	
7	EE1 434	RF & Microwave	4	0	0	4	4	15	15	10	60	
8	EE1 435	Lab.: RF & Microwave	0	0	2	2	1			40	60	
9	EE1412	Project Phase-I	0	0	4	4	4			40	60	
10	EE1 413	Industrial Training / CRT	0	0	0	0	2			100		
		Total	13	2	12	27	25					

EIGHTH SEMESTER

	Profession 6 1	al Elective-III		Г								,,
	EE1414	PEIII: Computer Communication Network					3	15	15	10	60	3 Hrs
ia.	EE1415	PEIII: Operating System Concepts	3	0 0	٦	_						
1	EE1 436	PETIT: RADAR Enginneering			U	3						
	EE1 437	PETIT: Micro Electro Mechanical Systems										
	EE1 439	PETIT: Display Technology			30 -2	0						
	Professional Elective-IV			П								
	EE1 417	PETV: Soft Computing	4				4	15 n	15	10 40	60 60	3 Hrs
2	EE1 419	PETV: Analog VLSI Design		0	0	4						
	EE1427	PETV: Digital Image Processing										
		PETV: Object Oriented Programming			0 -0	C.						
		sional Elective-IV										
	EE1 418	Lab.: PETV: Soft Computing	0				1					
3	EE1 420	Lab.: PETV: Analog VLSI Design		0	2	2						
	EE1 428	Lab.: PETV: Digital I mage Processing										
	EE1 424	Lab.: PETV: Object Oriented Programming			st 52							
	Profession	al Elective-V				Ç.	F					\$
	EE1 416	PE V: Biomedical Instrumentation & its Applications	3	П		3	3	15	15	10	60	3 Hrs
4	EE1 421	PE V: Optical Communication		0	0							
	EE1 425	PE V: Wireless Communication										
	EE1 438	PEV: Mechatronics										
5	EE1 433	Lab.: Electronics Design Automation	0	0	2	2	1			40	60	
6	EE1 430	Comprehensive Viva-voce	0	0	0	0	3				100	
7	EE1 431	Extra/Co-Curricular / Competitive Examinations	0	0	0	0	2			100	ria a	
8	EE1 432	Project Phase-II	0	0	8	8	8			40	60	
		Total	10	0	12	22	25					

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Dean (Acad. Matters)	Date of Release	Dec. 2017	Onwards			





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

tores:	9			Con	tact	Hours		%	% Weightage			ESE
SI. No.	Course Code	Course Title	L	T	Р	Total Contact Hours	Credits	MSE-I	MSE- II	TA	ESE	Duration Hrs.
		THIRD SE	/IEST	EF	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	M	5.	*	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 SE	MES	TE	R							
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					
1794	Done	hold	3	1.00		М	ay 2015		Applicable for AY 2015			AY 2015
C	hairp ers on	Dean (Acad. Matters)	Version Date of Release		se	ocarbonia.	16	16 Onwards				



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 Tele	ecommunicatio	on Ena	ineerina
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		Electronics and Tele		ontac			1 6		ESE			
S. N.	Sub Code	Subject	ű.	T	P	Total	CR		% Wei MSE II		ESE	Duration
		I FIFTH SEM	FSTE		Б.	1 Ulai		IVI SE 1	INIOE II	18	ESE	Duration
1	GE1312	Fundamental of Economics	3	0	Ō	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
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	1000	S 177	40	60	17.1.115.
6	ET1305	Signals and Systems	3	1	0	4	4	15	15	10	60	3 Hrs
7		Electronic Workshop	0	0	2	2	1		8	40	60	1000, 1110,000
	Prof. Elect	tive I	77						17			
	ET1307	PET: Algorithm & Data Structure	l					15				
8	ET1309	PET:Object Oriented Programming	3	0	0	3	3		15	10	60	3 Hrs
	ET1311	PET:Discrete Structures	l									
	ET1336	PET: Advanced Microprocessor and Peripherals										
	Lab. Prof.			Ē								
	ET1308	Lab.: PE I: Algorithm & Data Structure	0									
9	ET1310	Lab.: PE I: Object Oriented Programming		0	2	2	1			40	60	
	ET1312	Lab.: PE I: Discrete Structures								maxo		
	ET1337	Lab.: PE I: Advanced Microprocessor and Peripherals										
	Open Elec	tive I										
10		OE 1: Microcontroller & Embedded Systems	3	0	o	3	3	15	15	10	60	3 Hrs
10	ET1333	OE 1: Principles of Communication Engineering			×	3.	- 0	13	-10	10	00	91113
	ET1335	OE 1 : Fundamentals of I mage Processing	<u> </u>									
		Total	19	2	8	29	25					
52		SIXTH SEM		Tvorse -	ř z	1 525	1523	15	(Adden 1	1892	S 3	16,0123
1	THE RESERVE AND PERSONS ASSESSMENT	Fundamental of Management	3	0	0	3	3	15	15	10	60	3 Hrs
2		Digital Communication	4	0	0	4	4	15	15	10	60	3 Hrs
3		Lab.:Digital Communication	0	0	2	2	1	122	4.5	40	60	0.11
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	E11318	Lab.: Digital Signal Processing	0	0	2	2	1	1		40	60	

5.0	Participant Control	5 An De No 22400 An		17-25-0	Ť	1 25010	0.000	1		i ee	i de la composición della comp	NA.504003
1	THE RESERVE TO SHAPE THE PARTY OF THE PARTY	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		0, -0	40	60	
	Prof. Elec	tive II							0			
	ET1319	PEII : Embedded System										
7	ET1321	PEII :Digital System Design	3	0	0	3	3	15	15	10	60	3 Hrs
	ET1323	PEII: TV & Video Engineering										
	ET1338	PEII: Data Compression & Encryption										
	Lab. Prof.	Elective II										
	ET1320	Lab.: PE II: Embedded System										
8	ET1322	Lab.: PE II: Digital system Design	0	0	2	2	1			40	60	
	ET1324	Lab.: PE II: TV & Video Engineering										
	ET1339	Lab.: PE II: Data Compression & Encryption										
	Open Elec	tive II										
	ET1340	OE II : Soft computing										
9	ET1341	OE II : Industrial Instrumentation	3	0	0	3	3	15	15	10	60	3 Hrs
	ET1342	OE II: Medical Electronics						0.0000	53-547		D-CLF	
	ET1343	OE II: Display Technology and Applications										
10		Seminar	0	0	2	2	1		0 0	100		
	-	Total	19	2	8	29	25		B B			

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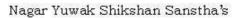
Nagar Yuwak Shikshan Sanstha's Yeshwantrao Chavan College of Engineering (An Autonom ous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

B.E. SCHEME OF EXAMINATION 2014

Electronics and	Telecommunication	Engineering
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100	Spil Brome	Electronics and Tele					n En	gine	erin	ıg		
S. N.	Sub Code	Subject	C	ontac	t Hou	S	CR	% Weightage				ESE
D. IN.	Sub Code	Subject	L	Т	Р	Total	UN.	MSE I	MSE II	TA	ESE	Duration
		SEVENTH SI	EMEST	ER								
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		S S	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		8 8	40	60	
	Profession	nal Elective-III							0 0			
	ET1405	PEIII: Optical Communication										
5	ET1407	PETIT: Microwave Integrated circuit	3	0	0	3	3	15	15	10	60	3 Hrs
	ET1409	PE III: Communication Networks	3.7									
	ET1431	PEIII: Analog VLSI										
	Lab.:Profe	ssional Elective -III							8 8			
	ET1406	Lab. :PE III: Optical Communication	1			2						
6	ET1408	Lab. :PE III : Microwave Integrated circuits	0	0	2		18			40	60	
	ET1410	Lab. :PE III : Communication Networks	1									
	ET1432	Lab. :PE III : Analog VLSI										
7	ET1413	Industrial Training/ CRT	0	0	0	0	2			100		
8	ET1414	Project phase -l	0	0	4	4	4			40	60	
	•	Total	11	0	10	21	20					
1	ET1415	Antenna Theory & Design	MESTI T 4	ER O	0	4	4	15	15	10	60	3 Hrs
2	THE DOOR TO SECURE	Lab.: Antenna Theory & Design	0	0	2	2	1	11.5		40	60	9.112
3		CMOS VLSI Design	4	0	0	4	4	15	15	10	60	3 Hrs
4	200000 - 2000000	Lab.: CMOS VLSI Design	0	0	2	2	1	133		40	60	, a 1110
207	The state of the s	nal Elective IV	- V-T-V	167408		230			9 9	20.0	35.50	
	ET1419	PEIV: Power Electronics	-3									
9 <u>2</u> 0	A STATE OF THE PARTY OF	PETV: Wireless Mobile Communication Systems	1									
5	ET1422	PETV: Satellite Communication & RADAR Engineering	3	0	0	3	3	15	15	10	60	3 Hrs
		PEIV: Biomedical Instrumentation	1									
	ET1437	PETV: : Display Technology										
		nal Elective V										
	ET1422	PE V : Fuzzy Logic & Neural Networks										
6	ET1424	PEV: RF Circuit Design	3	0	0	3	3	15	15	10	60	3 Hrs
		PEV: Multimedia Communications										
	ET1435	PE V:Advances in Communication										
	Lab.: Prof	essional Elective V										
l	ET1423	Lab.: PE V: Fuzzy Logic & Neural Networks										
	The state of the s	Lab.: PE V: RF Circuit Design	0	0 0 2	2	2	1			40	60	
7	ET1425		- 0		2	2	95.65	I		115555	AS11400C	
7		Lab.: PE V: Multimedia Communications						1				
7	ET1427											
7	ET1427 ET1436	Lab.: PE V: Multimedia Communications	0	0	8	8	8		8 8	40	60	
320	ET1427 ET1436 ET1428	Lab.: PE V: Multimedia Communications Lab.: PE V: Advances in Communication	0	0	8	8	8		0	40	60 100	
8	ET1427 ET1436 ET1428 ET1429	Lab.: PE V: Multimedia Communications Lab.: PE V: Advances in Communication Project Phase-II.	- VV	J. Andreede	- 334	100,400	meet			40	Contract.	

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Chairperson

Dean (Acad. Matters)

Yeshwantrao Chavan College of Engineering (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

B.E. SCHEME OF EXAMINATION 2014

	H Sand Strong	- A:	Ī	Cont	tact I	lours		%	6 Weighta	ge	100	ESE
SI. No.	Course Code	Course Title	L	Ť	Р	Total Contact Hours	Credits	MSE-I	MSE-II	TA	ES E	Duration Hrs.
		TH.	IRD :	SEM	ESTE							
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	8 1 5			40	60	
	•	Total	14	2	8	24	20					
		FOL	JRTH	SEN	/IEST	ER	-					
i	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	7			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
В	CT1209	Lab: System Programming	0	0	2	2	4			40	60	
Œ	Journa -	Total	18	2	6	26	23					
		Likel		1.00		N	1ay 2015		Applica	hlo f	or A V	/ 2015 16

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Date of Release

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Yeshwantrao Chavan College of Engineering (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

B.E. SCHEME OF EXAMINATION 2014

		Сотр	ıter	T€	ch	nolo	gy					
S.N.	Sub Code	Cubinat	С	onta	ct H	ours	CR	(% Weigh	tage	i .	ESE
5. IV.	Sub Code	Subject	L	Ť	Р	Total	CR	MSEI	MSEII	TA	ESE	Duratio
		FIFTH SEM	IESTI	₽R								
7	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	ů.	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	10		40	60	
7	CT1340	Computer Networks	4	0	0	4	4	15	15	10	60	3
70.02	W. 150. W. 11. 17. A. 1	Control control to the control of th			O warning	2000	1.0	13	10		4404141	٥
8	94.55.00.00.00.00.00.00	Lab. : Computer Networks	0	0	2	2	1			40	60	
	Open Elec	OE I: Introduction to DBMS	-		0							
9		OEI: Operating System Concepts	3	0		3	3	15	15	10	60	3
		OEI: Essentials of IT	25									
10	THE RESERVE OF THE PROPERTY OF	Seminar I	0	0	2	2	1			100		
		Total	21	1	8	30	26					
		SIXTH SEN	IESTI	=R								
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	Ö	2	2	1			40	60	
		nal Elective I	- 2									
		PET: Computer Graphics PET: Realtime Systems					1 4	15	15			
		PET: Readine Systems PET: Mobile Operating Systems	23									
7	The state of the s	PET: Mobile Operating System PET: Business Intelligence and its Applications	4	0	0	4				10	60	3
	TAXABLE VIN DESIGNATION OF THE PARTY OF THE	PEI: Introduction to Geographical Information										
	CT1353	System	4									
	CT1355	PE1: Privacy and Security in Online Social Networks										
	Lab. : Prof	fessional Elective I										
		Lab. :PE I: Computer Graphics	23									
		Lab. :PE I: Realtime Sysmes	33									
	CT1348	Lab. :PE I: Mobile Operating System	<u> </u>									
8	CT1350	Lab. :PE I: Business Intelligence and its Applications	0	0	2	2	1			40	60	
	DT1051	Lab. :PE I: Introduction to Geographical	 									
	CT1354	Information System	90									
	CT1356	Lab. :PE1 : Privacy and Security in Online										
-	Open Ele	Social Networks	830KS 3						re o			
9	_	OEII: Multimedia and Animation	3	ā	0	3	3	15	15	10	60	3
19576	CT1352	OEII: Current Trends and Technologies	2 35/2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	<i>a</i> 77	355	WATE.	176	\$6 7 9	573.58E	3050	20000	REE .
10	CT1329	Software Lab (Mini Project)	0	0	2	2	1			100		
		Total	20	2	8	30	26					
especial Exe	with the second sample.	51. L		Sentence	200.00000	,		28250				
hair	person	A	313	Ve	rsio	n`` 	L	1.02	Applic			2017-1
ean	(A cad. Mat	ters)	Da	te o	f Rel	ease	No	v. 2017		On	wards	
Dean	(A cad. Mat	ters)	Da	te o	f Rel	ease	No	v. 2017		On	wards	· —



Yeshwantrao Chavan College of Engineering (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University) B.E. SCHEME OF EXAMINATION 2014

Computer Technology

		Сотри	ter	16	:CII	HOIC	yyy	8				
C N	Sub Code	Cubiant	С	onta	ct H	ours	CD	1	% Weigh	tage	i .	ESE
S.N.	Sub Code	Subject	Ĺ	O.	Р	Total	CR	MSEI	MSEII	TA	ESE	Duration
- 3	1	SEVENTH SE	MES	TER					150 6 150 0			
a []	CT1415	Network Security	4	٥	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	
		nal Elective II	Î		9 3							
	CT1405	PEII: Embedded Systems	1									
4	CT1406	PETI: Neural Network & Fuzzy Logic	4	0	0	4	4 4	15	15	10	60	3
	CT1407	PEII: Ad-hoc Wireless Network										
	CT1453	PETI: Probabilistic Statistical Data Analysis			ie n							
	Profession	nal Elective III	17.5									
	CT1408	PEIII: Cloud Computing										
5	CT1409	PEIII: Operations Research	4	0	0	4	4 4	15	15	10	60	3
	CT1437	PEIII: 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					
ý.		EIGHTH SEM	/EST	ER					•			
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
	Profession	nal Elective IV	2									
	CT1418	PETV: Digital Image Processing	4						15	10		
3	CT1420	PETV: Pattern Recognition	4	0	0	4	4	4 15			60	3
	Service Annual Control of the Contro	PETV: Mobile Communication										
		PETV: Cyber Forensics			e 5	9			ļ.		8	
	A CARLO POLICIO PARA CARRO	essional Elective IV										
		Lab.: PE IV: Digital I mage Processing	4									
4	CT1421	Lab.: PE IV: Pattern Recognition	0	0	2	2	1			40	60	
	CT1442	Lab.: PE IV: Mobile Communication	4									
	1000 STATE CONTROL OF THE PARTY	Lab.: PE IV: Cyber Forensics	ļ									
		nal Elective V										
5	STREET, STREET	PE V: Software Project Management	4	o	0	4	4	15	15	10	60	3
29962	Name and Address of the Parket	PE V: Internet of Things	3	:50	5000	2000	838	20.00	5,75,736	3556	35753	6000
Q		PE V: Numerical Computing			ie n							
		essional Elective V										
6		Lab. : PE V: Software Project Management	0	0	2	2	1			40	60	
	Manage Control of the	Lab. : PE V: Internet of Things										
		Lab. : PE V: Numerical Computing	1653		المسادة	17.0			Te :			
7	CT1425	Comprehensive Viva	0	0	0	0	3				100	
8	CHOCK PHONE COCK PY	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					I

Chairperson	SAIN	Version	1.01	Applicable for AY 2017-18
Dean (A cad. Matters)	An Amport	Date of Release	May 2017	Onwards



Yeshwantrao Chavan College of Engineering (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

B.E. SCHEME OF EXAMINATION 2014

Information Technology

			ğ	Con	tact	Hours		%	Weight	age		ESE
SI. No.	Course Code	Course Title	L	T	Р	Total Contact Hours	Credits	MSE-1	MSE-II	TA	ESE	Duration Hrs.
	g:	THIRD SE	MES	TEF	l	20	724	90 0	3 E4	115 - 57		
1	GE1201	Engineering Mathematics - III	3	1	Ö	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 SI	EME:	STE	R							
1	GE1206	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		A.17	40	60	
			17	3	6	26	23				0 8	
	2/	للكفك	*	200 (0	A.7.	М	ay 2015	(7)	Appli	cabl	e for	AY 2015-
С	hairperson	Dean (Acad. Matters)	Ve	rsic	n	Date	of Relea	ıse	1 (2000) 100 (2000) (2000)		Onwa	



Yeshwantrao Chavan College of Engineering (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

B.E. SCHEME OF EXAMINATION 2014

Information Technology

Sr.	Course		C	ГИС	TAC.	T HOURS	Annual Control of the		%Weight	240	Ŷ	ESE
No.	Code	Course Title	L	Т	Р	Total Contact	Credits	MSE-I	MSE-II	G-555	ESE	Duration Hrs.
-		FIFT	H SE	ME	STE							
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	
	Professiona	l Elective l	ij.		-							
	IT1307	PET:Computer Graphics										
	IT1309	PET:Embedded System		-	14400	88	20	74±	200-2	200		2000
8	IT1326	PET:Digital Signal Processing	4	0	٥	4	4	15	15	10	60	3 Hrs
	IT1327	PET:Web Programming										
	IT1328	PET: Data Analysis & Statistics										
	Open Electi	ve l										
9	IT1322	OE I: Web Technology	3	0	0	3	3	15	15	10	60	3 Hrs
	IT1325	OE I: Object oriented programming (Java)			8	8	3					
10	IT1313	Seminar	0	0	2	2	1			100		
		Total	20	2	8	30	26					

SIXTH SEMESTER

	1			_	100		- 0	-	T	_		$\overline{}$
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	
	Professiona	l Elective II	100		8		8 3					
	IT1311	PE II: Artificial Intelligence			ı							
	IT1320	PE II: Digital Image Processing			ı							
8	IT1308	PE II: Mobile Communication	3	7	0	4	4	15	15	10	60	3 Hrs
STA	IT1333	PE II: Information Systems		300	- 	09	0.4	1,5	1.56	0.8	.55	- Manua
	IT1334	PE II: Internet of Things			ı							
	IT1335	PE II: Distributed and Object Oriented Databases			63		8 7		i é			
	Open Electi	ve II			157			7				
9	IT1336	OE II: Introduction to E-Commerce	3	0	0	3	3	15	15	10	60	3 Hrs
	IT1337	OE II:Information Security	Face	<i>z</i> .	46	'a						
10	IT1324	Mini Project	0	0	2	2	57 4 5			100		_
-	(i.e.	Total	19	3	8	30	26				*	

Chairp erson	with	mein	Version	1.00	Applicable for AY 2016-17
Dean (Acad. Ma	tters)	L	Date of Release	May 2016	Onwards



Yeshwantrao Chavan College of Engineering (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

B.E. SCHEME OF EXAMINATION 2014

Information Technology

Sr.	Course		CON	FAC	T HOURS		- 5	%Weight	200		ESE
5858.5 Kinh	Course	Course Title	STEEL COME	L	Total	Credits		~vvayn.	aye		Duration
No.	Code	Balancia de la compansión de desarrol de la compansión de		535	Contact		MSE-I	MSE-II	TA	ESE	Hrs.

SEVENTH SEMESTER (Group "A")

	IT1432	PE III: Cloud Computing	1		Ш							
	IT1432 IT1436	PE III: Cloud Computing PE III: Coding Standard and Technical	-									
	IT1432	A STATE OF THE STA										
	COMMUNICATION	Port Anna Control (Control (Co	1									
	IT1430	PE III: E-Commerce		13/05/0	~			5,51,54		13,600	30000	
8	THE STATE OF THE PARTY OF THE P		3	0	0	3	3	15	15	10	60	3 Hrs
23	IT1429	PE III: Advanced Computer Architecture	۱,	_	ا ا			46	4.5	10	20	611
	IT1423	PE III: Human Computer Interaction		l	Ш							
		AND	1		Ш							
	IT1407	PE III: Real Time Systems	1		Ш							
_	Professiona	550	-	_				1.0		1		5
7	IT1422	Network Security	3	0	0	3	3	15	15	10	60	3 Hrs
6	IT1428	Lab: Data Mining	0	0	2	2	1			40	60	
70/	857152152CDGA	Alverting properties and	JAN .	,200000	374	409	4.0	15	15	2774	0004	3 HIS
5	IT1427	Data Mining	4	0	0	4	4	15	15	10	60	3 Hrs
4	IT1418	Lab: Network Programming	0	0	2	2	1			40	60	
3	IT1417	Network Programming	4	0	0	4	4	15	15	10	60	3 Hrs
2	IT1404	Lab: Principle of Compiler Design	0	0	2	2	1		N15-30	40	60	y-
2	IT1403	Principle of Compiler Design	3	0	0	4	4	15	15	10	60	3 Hrs

SEVENTH SEMESTER (Group "B")

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			
, e		Total Group(A+B)	20	1	38	59	50			

Chairperson	<u>, </u>	Version	1.02	Applicable for AY 2018-19
Dean (Acad. Matters)	andread	Date of Release	September 2017	Onwards

Yeshwantrao Chavan College of Engineering (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

B.E. SCHEME OF EXAMINATION 2014

Information Technology

Sr.	Causes	1	C	INC	AC.	HOURS		%Weightage				ESE
2852.5 KW	Course	Course Title	9185	ार	Р	Total	Credits		% vvegnt	aye		Duration
No.	Code	KISTOOL MATTIN HONORATA TO CONTROL	-	332	5	Contact		MSE-I	MSE-II	TA	ESE	Hrs.
		EIGHTH SEM	JEST	ER	(Gr	oup "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 Нгѕ
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	100
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
	Professiona	l Elective III								П		31
	IT1407	PE III: Real Time Systems			Н							
	IT1423	PE III: Human Computer Interaction			Н							
8	IT1429	PE III: Advanced Computer Architecture	3	0	0	3	3	15	15	10	60	3 Hrs
	IT1430	PE III: E-Commerce						3.40		17.55		
	IT1432	PE III: Cloud Computing	1		Н							
	IT1436	PE III: Coding Standard and Technical Documentation	1		22 51							ė-
	Professiona	l Elective IV	5-0		\$ 3							F
9	IT1415	PE IV : Neural Networks & Fuzzy Logic	3	٥	0	3	3	15	15	10	60	3 Hrs
9	IT1405	PE IV: Pattern Recognition	3	u	ľ	3	3	10	10	10	ou	3 HIS
	IT1421	PE IV: Distributed Systems	1									
	Lab: Profess	sional Elective IV										
10	IT1416	Lab.; PE IV ; Neural Networks & Fuzzy Logic	0	0	2	2	1			40	60	
10	IT1439	Lab.: PE IV: Pattern Recognition] "	U	-	×	#			40	00	
	IT1440	Lab.: PE IV: Distributed Systems	0 4									
		Total	20	1	8	29	25					
		Total Group(A+B)	20	1	38	59	50					

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









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	Туре	Sub.	Subject	T/P	Co	ntac	t Ho	urs	Credits	% W	/eight	age	ESE Duration
WHENCH!		200000000000000000000000000000000000000	Code	659-100-0-659-0-0-1-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-		L	Т	Р	Hrs		MSEs*	TA**	ESE	Hours
				First Semester	Grou	p "A	ii							
1	1	BS	GE2101	Engineering Mathematics I	т	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	Р	0	0	2	2	1		60	40	
4	1	HS	GE2107	Communications Skills	т	3	0	0	3	3	30	30	40	3
5	1	BES	CV2101	Engineering Mechanics	т	3	1	0	4	4	30	30	40	3
6	1	BES	CV2102	Lab.: Engineering Mechanics	Р	0	0	2	2	1		60	40	
7	1	BES	IT2101	Introduction to Computer Programing	т	3	1	0	4	4	30	30	40	3
8	1	BES	IT2102	Lab.: Introduction to Computer Programing	Р	0	0	2	2	1		100		
9	1	BES	ME2103	Workshop Practice	Р	0	0	2	2	1		60	40	
				Ţ	OTAL	16	3	8	27	23				

				First Sem	ester Grou	р "В								
1	1	BS	GE2102	Engineering Mathematics II	т	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	Р	0	0	2	2	1		60	40	
4	1	HS	GE2108	Social Sciences	т	3	0	0	3	3	30	30	40	3
5	1	BES	EL2101	Electrical Engineering	т	3	1	0	4	4	30	30	40	3
6	1	BES	EL2102	Lab.: Electrical Engineering	Р	0	0	2	2	1		60	40	
7	1	BES	ME2101	Engineering Graphics	τ	1	0	0	1	1	30	30	40	3
8	1	BES	ME2102	Lab.: Engineering Graphics	Р	0	0	4	4	2		100		
9	1	BES	EE2101	Basic Electronics	т	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

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



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	Туре	Sub. Code	Subject	T/P	Co	ntac	t Ho	urs	Credits	% W	Veightage		ESE Duration
		7.5	Code			L	Т	Р	Hrs		MSEs*	TA**	ESE	Hours
1	2	BS	GE2102	Engineering Mathematics II	т	3	1	0	4	4	30	30	40	3
2	2	BS	GE2103	Engineering Chemistry	Ţ	4	0	0	4	4	30	30	40	3
3	2	BS	GE2107	Lab.: Engineering Chemistry	Р	0	0	2	2	1		60	40	
4	2	HS	GE2108	Social Sciences	Т	3	0	0	3	3	30	30	40	3
5	2	BES	EL2101	Electrical Engineering	Т	3	1	0	4	4	30	30	40	3
6	2	BES	EL2102	Lab.: Electrical Engineering	Р	0	0	2	2	1		60	40	
7	2	BES	ME2101	Engineering Graphics	т	1	0	0	1	1	30	30	40	3
8	2	BES	ME2102	Lab.: Engineering Graphics	Р	0	0	4	4	2		100		
9	2	BES	EE2101	Basic Electronics	т	3	1	0	4	4	30	30	40	3
					TOTAL	17	3	8	28	24				

				Second Semest	er Gro	up "	В"							
1	2	BS	GE2101	Engineering Mathematics I	T	3	1	0	4	4	30	30	40	3
2	2	BS	GE2105	Engineering Physics	т	4	0	0	4	4	30	30	40	3
3	2	BS	GE2106	Lab.: Engineering Physics	Р	0	0	2	2	1		60	40	
4	2	HS	GE2107	Communications Skills	т	3	0	0	3	3	30	30	40	3
5	2	BES	CV2101	Engineering Mechanics	т	3	1	0	4	4	30	30	40	3
6	2	BES	CV2102	Lab.: Engineering Mechanics	Р	0	0	2	2	1		60	40	
7	2	BES	IT2101	Introduction to Computer Programing	Т	3	1	0	4	4	30	30	40	3
8	2	BES	IT2102	Lab.: Introduction to Computer Programing	Р	0	0	2	2	1		100		9
9	2	BES	ME2103	Workshop Practice	Р	0	0	2	2	1		60	40	
				Ţ	OTAL	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

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



Yeshwantrao Chavan College of Engineering

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

B.E. SCHEME OF EXAMINATION 2018-19

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

Civil Engineering

SoE No. CV-201

SN	Sem	Туре	Sub. Code	Subject	T/P	Co	ontac	t Ho	urs	Credits	% V	Veighta	age	ESE Duration
		(A)	Code	TOTAL FIRST & SECON	SEM	L	Т	Р	Hrs	47	MSEs*	TA**	ESE	Hours
										47	L			
		NAME OF THE OWNER OWNER OF THE OWNER OWNE	THE CONTROL OF STREET	Third Se		7				Ĩ.				1000
1	3	BS	GE2201	Engineering Mathematics III	Т	3	0	0	3	3	30	30	40	3
2	3	PC	CV2201	Strength of Materials	Т	3	0	0	3	3	30	30	40	3
3	3	PC	CV2202	Lab:- Strength of Materials	Р	0	0	2	2	1		60	40	
4	3	PC	CV2203	Geotechnical Engineering	Т	3	0	0	3	3	30	30	40	3
5	3	PC	CV2204	Lab:- Geotechnical Engineering	Р	0	0	2	2	1		60	40	
6	3	PC	CV2205	Fluid Mechanics	Т	3	0	0	3	3	30	30	40	3
7	3	PC	CV2206	Lab:- Fluid Mechanics	Р	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	Р	0	0	2	2	1		60	40	
				7	OTAL	15	0	8	23	19				
				Fourth S	Semste	r								
1	4	BS	GE2204	Advance Mathematical Techniques	Т	3	0	0	3	3	30	30	40	3
2	4	PC	CV2251	Concrete Technology	Т	3	0	0	3	3	30	30	40	3
3	4	PC	CV2252	Lab:- Concrete Technology	Р	0	0	2	2	1		60	40	
4	4	PC	CV2253	Surveying	Т	3	0	0	3	3	30	30	40	3
5	4	PC	CV2254	Lab:- Surveying	Р	0	0	2	2	1		60	40	
6	4	PC	CV2255	Structural Analysis	Т	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	B
0	4	P	CV2258	Lab:- Transportation Engineering	P	0	0	2	2	1		60	40	
				ד	OTAL	16	0	8	24	20				
Audi	it Cour	ses												
1	4	HS	GE2121	Env Studies for 4 Sem. CV,ME,EE,IT	А	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

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

- CAN.	market 1	June 2020	1.02	Applicable for
Chairperson	Dean (Acad. Matters)	Date of Release	Version	AY 2020-21 Onwards



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B.E. SCHEME OF EXAMINATION 2018-19

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

Civil Engineering

SoE No. CV-201

SN	Sem	Туре	Sub.	Subject	T/P	Co	ntac	t Ho	urs	Credits	% Weightage			ESE Duration
		V/2425/	Code			L	T	Р	Hrs		MSEs*	TA**	ESE	Hours
				Fifth :	Semeste	r				20.				
1	5	HS	GE2311	Fundamental of Management	Т	3	0	0	3	3	30	30	40	3
2	5	PC	CV2301	Reinforced Concrete Structures	Т	3	0	0	3	3	30	30	40	4
3	5	PC	CV2302	Advanced Structural Analysis	Т	3	0	0	3	3	30	30	40	3
4	5	PC	CV2303	Lab:- Analysis and Design Studio	Р	0	0	2	2	1		60	40	
5	5	PE-I		Professional Elective-I	Т	3	0	0	3	3	30	30	40	3
6	5	PE-I		Lab:- Professional Elective -I	Р	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 *	Т	3	0	0	3	3	30	30	40	3
				•	TOTAL	18	0	4	22	20				

Professional Elective - I

		ui Livoti	No. of Contract	
a	5	PE-I	CV2311	PE-I: Advanced Surveying
1	5	PE-I	CV2312	PE-I Lab : Advanced Surveying
2	5	PE-I	CV2313	PE-I: Computer Applications in Civil Engineering
- 2	5	PE-I	CV2314	PE-I Lab : Computer Applications in Civil Engineering
3	5	PE-I		PE-I : Building Construction and Materials
3	5	PE-I	CV2316	PE-I Lab : Building Construction and Materials
4	5	PE-I		PE-I : Matrix Analysis of Structures
- 4	5	PE-I	CV2318	PE-I Lab : Matrix Analysis of Structures
5	5	PE-I	CV2319	PE-I: Advanced Concrete Technology
J	5	PE-I	CV2320	PE-I Lab : Advanced Concrete Technology
6	5	PE-I	CV2321	PE-I: Water Treatment
O	5	PE-I	CV2322	PE-I Lab: Water Treatment
7	5	PE-I	CV2323	PE-I : Environmental Management
4	5	PE-I	CV2324	PE-I Lab : Environmental Management
8	5	PE-I	CV2325	PE-I : Soil Characterization & Identification
O	5	PE-I	CV2326	PE-I Lab : Soil Characterization & Identification
9	5	PE-I	CV2327	PE-I: Geographical Information Systems
9	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				OE-I: Introduction to Environmental Management
4	5	OE-I	CV2334	OE-I: Basics of Transportation Engineering
5				OE-I : Basics of Water Resource Engineering
6	5	OE-I	CV2336	OE-I: Elements of Water Power Engineering

Open Electives -II

1				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

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

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Civil Engineering

SoE No. CV-201

SN	Sem	Туре	pe Sub. Code	oe Code Subject 1/P		Co	ntac	t Ho	urs	Credits	% Weightage			ESE Duration
		A04800	Code	並		L	T	Р	Hrs		MSEs*	TA**	ESE	Hours
				Sixth S	emeste	r								
1	6	HS	GE2312	Fundamental of Economics	Т	3	0	0	3	3	30	30	40	3
2	6	PC	CV2351	Steel Structures	Т	3	0	0	3	3	30	30	40	4
3	6	PC	CV2352	Lab:- Building Design Drawing	Р	0	0	2	2	1		60	40	
4	6	PC	CV2353	Hydraulic Engineering	Т	3	0	0	3	3	30	30	40	3
5	6	PC	CV2354	Lab:- Hydraulic Engineering	Р	0	0	2	2	1		60	40	
6	6	PC	CV2355	Foundation Engineering	т	3	0	0	3	3	30	30	40	3
7	6	PE-II		Professional Elective -II	Т	3	0	0	3	3	30	30	40	3
8	6	OE-II		Open Elective - III **	Т	3	0	0	3	3	30	30	40	3
9	6	OE-IV		Open Elective - IV **	Т	3	0	0	3	3	30	30	40	3
10	6	STR	CV2360	Industry Visit and its report	Р	0	0	0	0	1		100		
			<u>.</u> :		TOTAL	21	0	4	25	24				
_					-						* *	5		
		2000												
-	t Cour		IT4424	In disability Department I amoust as	L	2	_	_	2	_	ľ			
Audi 1	t Cour	ses IT	IT1121	Industrial Programmin Language	Α	3	0	0	3	0				
-			IT1121	Industrial Programmin Language	A	3	0	0	3	0				
1	6	∣T al Elect	ive - II	Industrial Programmin Language	А	3	0	0	3	0				
1 Profe	6 ession	IT al Elect	ive - II CV2361	PE-II: Building Services	A	3	0	0	3	0				
1 Profe 1 2	6 ession 6 6	IT al Elect PE-II PE-II	ive - II CV2361 CV2362	PE-II: Building Services PE-II: New Engineering Materials			0	0	3	0				
1 2 3	6 6 6 6	al Elect PE-II PE-II PE-II	ive - II CV2361 CV2362 CV2363	PE-II: Building Services PE-II: New Engineering Materials PE-II: Construction Management An			0	0	3	0	*			
1 Profe 1 2 3	6 6 6 6	al Elect PE-II PE-II PE-II PE-II	ive - II CV2361 CV2362 CV2363 CV2364	PE-II: Building Services PE-II: New Engineering Materials PE-II: Construction Management An PE-II: Earthquake Engineering			0	0	3	0				
1 Profe 1 2 3 4 5	6 6 6 6	al Elect PE-II PE-II PE-II PE-II PE-II	ive - II CV2361 CV2362 CV2363 CV2364 CV2365	PE-II: Building Services PE-II: New Engineering Materials PE-II: Construction Management An PE-II: Earthquake Engineering PE-II: Optimization Techniques	d Machi		0	0	3	0				
1 Profe 1 2 3 4 5 6	6 6 6 6 6	al Elect PE-II PE-II PE-II PE-II PE-II PE-II	ive - II CV2361 CV2362 CV2363 CV2364 CV2365 CV2366	PE-II: Building Services PE-II: New Engineering Materials PE-II: Construction Management An PE-II: Earthquake Engineering PE-II: Optimization Techniques PE-II: Introduction to Remote Sensir	d Machi		0	0	3	0				
1 2 3 4 5 6	6 6 6 6 6 6	al Elect PE-II PE-II PE-II PE-II PE-II PE-II PE-II	ive - II CV2361 CV2362 CV2363 CV2364 CV2365 CV2366 CV2367	PE-II: Building Services PE-II: New Engineering Materials PE-II: Construction Management An PE-II: Earthquake Engineering PE-II: Optimization Techniques PE-II: Introduction to Remote Sensir PE-II: Environmental Geotechniques	d Machi		0	0	3	0				
1 Profe 1 2 3 4 5 6 7 8	6 6 6 6 6 6 6 6	al Elect PE-II	ive - II CV2361 CV2362 CV2363 CV2364 CV2365 CV2366 CV2367 CV2368	PE-II: Building Services PE-II: New Engineering Materials PE-II: Construction Management An PE-II: Earthquake Engineering PE-II: Optimization Techniques PE-II: Introduction to Remote Sensir PE-II: Environmental Geotechniques PE-II: Traffic Engineering	d Machi	nery		0	3	0				
1 Profe 1 2 3 4 5 6 7 8 9	6 6 6 6 6 6	al Elect PE-II	ive - II CV2361 CV2362 CV2363 CV2364 CV2365 CV2366 CV2367 CV2368 CV2369	PE-II: Building Services PE-II: New Engineering Materials PE-II: Construction Management An PE-II: Earthquake Engineering PE-II: Optimization Techniques PE-II: Introduction to Remote Sensir PE-II: Environmental Geotechniques PE-II: Traffic Engineering PE-II: Water Transmission and Distr	d Machi	nery		0	3	0				
1 Profe 1 2 3 4 5 6 7 8	6 6 6 6 6 6 6 6	al Elect PE-II	ive - II CV2361 CV2362 CV2363 CV2364 CV2365 CV2366 CV2367 CV2368	PE-II: Building Services PE-II: New Engineering Materials PE-II: Construction Management An PE-II: Earthquake Engineering PE-II: Optimization Techniques PE-II: Introduction to Remote Sensir PE-II: Environmental Geotechniques PE-II: Traffic Engineering	d Machi	nery		0	3	0				
1 2 3 4 5 6 7 8 9 10	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	al Elect PE-II	ive - II CV2361 CV2362 CV2363 CV2364 CV2365 CV2366 CV2367 CV2368 CV2369	PE-II: Building Services PE-II: New Engineering Materials PE-II: Construction Management An PE-II: Earthquake Engineering PE-II: Optimization Techniques PE-II: Introduction to Remote Sensir PE-II: Environmental Geotechniques PE-II: Traffic Engineering PE-II: Water Transmission and Distr	d Machi	nery		0	3	0				
1 Profe 1 2 3 4 5 6 7 8 9 10 Ope	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	al Elect PE-II	ive - II CV2361 CV2362 CV2363 CV2364 CV2365 CV2366 CV2367 CV2368 CV2369 CV2370	PE-II: Building Services PE-II: New Engineering Materials PE-II: Construction Management An PE-II: Earthquake Engineering PE-II: Optimization Techniques PE-II: Introduction to Remote Sensir PE-II: Environmental Geotechniques PE-II: Traffic Engineering PE-II: Water Transmission and Distr PE-II: Structural Industrial Practices	d Machi	nery		0	3	0				
1 Profe 1 2 3 4 5 6 7 8 9 10 Open 1	6 6 6 6 6 6 6 WILLIAM Elect	al Elect PE-II OE-III	ive - II CV2361 CV2362 CV2363 CV2364 CV2366 CV2367 CV2368 CV2370 CV2371	PE-II: Building Services PE-II: New Engineering Materials PE-II: Construction Management An PE-II: Earthquake Engineering PE-II: Optimization Techniques PE-II: Introduction to Remote Sensir PE-II: Environmental Geotechniques PE-II: Traffic Engineering PE-II: Water Transmission and Distr PE-II: Structural Industrial Practices OE-III: Building Services Engineerin	d Machi	nery		0	3	0				
1 2 3 4 5 6 7 8 9 10 Open 1 2	6 6 6 6 6 6 6 WI Elect	al Elect PE-II PE-II PE-II PE-II PE-II PE-II PE-II PE-II OE-III OE-III OE-III	ive - II CV2361 CV2362 CV2363 CV2364 CV2366 CV2367 CV2368 CV2370 CV2371 CV2372	PE-II: Building Services PE-II: New Engineering Materials PE-II: Construction Management An PE-II: Earthquake Engineering PE-II: Optimization Techniques PE-II: Introduction to Remote Sensir PE-II: Environmental Geotechniques PE-II: Traffic Engineering PE-II: Water Transmission and Distr PE-II: Structural Industrial Practices OE-III: Building Services Engineerin OE-III: Construction Techniques	d Machi	nery	ms	0	3	0				
1 Profe 1 2 3 4 5 6 7 8 9 10 Open 1 2 3	6 ession 6 6 6 6 6 6 6 6 7 VI VI VI	al Elect PE-II PE-II PE-II PE-II PE-II PE-II PE-II PE-II OE-III OE-III OE-III OE-III	ive - II CV2361 CV2362 CV2363 CV2364 CV2365 CV2366 CV2367 CV2370 CV2371 CV2372 CV2373	PE-II: Building Services PE-II: New Engineering Materials PE-II: Construction Management An PE-II: Earthquake Engineering PE-II: Optimization Techniques PE-II: Introduction to Remote Sensir PE-II: Environmental Geotechniques PE-II: Traffic Engineering PE-II: Water Transmission and Distr PE-II: Structural Industrial Practices OE-III: Building Services Engineerin OE-III: Construction Techniques OE-III: Introduction to Environmenta	d Machi	nery	ms	0	3	0				
1 2 3 4 5 6 7 8 9 10 Dpei	6 6 6 6 6 6 7 Elect	al Elect PE-II PE-II PE-II PE-II PE-II PE-II PE-II PE-II PE-II OE-III OE-III OE-III OE-III	ive - II CV2361 CV2362 CV2363 CV2364 CV2365 CV2366 CV2367 CV2370 CV2371 CV2372 CV2373 CV2374	PE-II: Building Services PE-II: New Engineering Materials PE-II: Construction Management An PE-II: Earthquake Engineering PE-II: Optimization Techniques PE-II: Introduction to Remote Sensir PE-II: Environmental Geotechniques PE-II: Traffic Engineering PE-II: Water Transmission and Distr PE-II: Structural Industrial Practices OE-III: Building Services Engineerin OE-III: Construction Techniques OE-III: Introduction to Environmenta OE-III: Basics of Transportation Eng	d Machi	Syste	ms	0	3	0				
1 Profe 1 2 3 4 5 6 7 8 9 10 Open 1 2 3 4 5 5	6 ession 6 6 6 6 6 6 6 6 7 VI VI VI VI VI	al Elect PE-II PE-II PE-II PE-II PE-II PE-II PE-II OE-III OE-III OE-III OE-III OE-III OE-III	ive - II CV2361 CV2362 CV2363 CV2364 CV2365 CV2366 CV2369 CV2370 CV2371 CV2372 CV2373 CV2374 CV2375	PE-II: Building Services PE-II: New Engineering Materials PE-II: Construction Management An PE-II: Earthquake Engineering PE-II: Optimization Techniques PE-II: Introduction to Remote Sensir PE-II: Environmental Geotechniques PE-II: Traffic Engineering PE-II: Water Transmission and Distr PE-II: Structural Industrial Practices OE-III: Building Services Engineerin OE-III: Construction Techniques OE-III: Introduction to Environmenta OE-III: Basics of Transportation Eng OE-III: Basics of Water Resource Er	d Maching ibution S ibution S Manag ineering	nery	ms	0	3	0				
1 Profe 1 2 3 4 4 5 6 9 10 Open 1 2 3 4 4 5 6 6	6 ession 6 6 6 6 6 6 6 6 7 VI	al Elect PE-II PE-II PE-II PE-II PE-II PE-II OE-III OE-III OE-III OE-III OE-III OE-III OE-III OE-III	ive - II CV2361 CV2362 CV2363 CV2364 CV2365 CV2366 CV2367 CV2370 CV2371 CV2372 CV2373 CV2374 CV2376	PE-II: Building Services PE-II: New Engineering Materials PE-II: Construction Management An PE-II: Earthquake Engineering PE-II: Optimization Techniques PE-II: Introduction to Remote Sensir PE-II: Environmental Geotechniques PE-II: Traffic Engineering PE-II: Water Transmission and Distr PE-II: Structural Industrial Practices OE-III: Building Services Engineerin OE-III: Construction Techniques OE-III: Introduction to Environmenta OE-III: Basics of Transportation Eng	d Maching ibution S ibution S Manag ineering	nery	ms	0	3	0				
1 Profe 1 2 3 4 5 6 6 9 10 Open 1 2 3 4 5 6 0 Open 1 5 0 Open 1	6 ession 6 6 6 6 6 6 6 6 7 VI	al Elect PE-II PE-II PE-II PE-II PE-II PE-II PE-II OE-III	ive - II CV2361 CV2362 CV2363 CV2364 CV2365 CV2366 CV2367 CV2370 CV2371 CV2372 CV2373 CV2374 CV2376	PE-II: Building Services PE-II: New Engineering Materials PE-II: Construction Management An PE-II: Earthquake Engineering PE-II: Optimization Techniques PE-II: Introduction to Remote Sensir PE-II: Environmental Geotechniques PE-II: Traffic Engineering PE-II: Water Transmission and Distr PE-II: Structural Industrial Practices OE-III: Construction Techniques OE-III: Introduction to Environmenta OE-III: Basics of Transportation Eng OE-III: Basics of Water Resource En	d Maching ibution S ibution S I Manag ineering	nery Systements of the state of	ms	0	3	0				
1 2 3 4 5 6 7 8 9 10 Dpei 1 5 6 Dpei 1	6 ession 6 6 6 6 6 6 6 6 7 VI	al Elect PE-II PE-II PE-II PE-II PE-II PE-II PE-II OE-III	ive - II CV2361 CV2362 CV2363 CV2364 CV2365 CV2366 CV2367 CV2369 CV2370 CV2371 CV2372 CV2373 CV2374 CV2376 CV2376	PE-II: Building Services PE-II: New Engineering Materials PE-II: Construction Management An PE-II: Earthquake Engineering PE-II: Optimization Techniques PE-II: Introduction to Remote Sensir PE-II: Environmental Geotechniques PE-II: Water Transmission and Distr PE-II: Water Transmission and Distr PE-II: Structural Industrial Practices OE-III: Construction Techniques OE-III: Introduction to Environmenta OE-III: Basics of Transportation Eng OE-III: Basics of Water Resource En OE-III: Elements of Water Power En	d Maching ibution S ibution S I Manag ineering ineering gineerin	nery Syste emer	ms	0	3	0				
1 Profe 1 2 3 4 5 6 7 8 9 10 Oper 1 2 3 4 4 5 6 6 Oper 1 2 2	6 ession 6 6 6 6 6 6 6 6 7 VI	al Elect PE-II PE-II PE-II PE-II PE-II PE-II PE-II OE-III	ive - II CV2361 CV2362 CV2363 CV2364 CV2365 CV2366 CV2367 CV2370 CV2371 CV2372 CV2373 CV2374 CV2376 CV2381 CV2382	PE-II: Building Services PE-II: New Engineering Materials PE-II: Construction Management An PE-II: Earthquake Engineering PE-II: Optimization Techniques PE-II: Introduction to Remote Sensir PE-II: Environmental Geotechniques PE-II: Water Transmission and Distr PE-II: Water Transmission and Distr PE-II: Structural Industrial Practices OE-III: Building Services Engineerin OE-III: Introduction to Environmenta OE-III: Basics of Transportation Eng OE-III: Basics of Water Resource Endineerin OE-III: Elements of Water Power Endineerin OE-IV: Elements of Earthquake Eng OE-IV: Introduction to Finite Elemen	d Maching g ibution S Manag ineering gineerin gineering t Method	nery Syste emer	ms	0	3	0				
1 2 3 4 5 6 7 8 9 10 Dpei 1 5 6 Dpei 1	6 ession 6 6 6 6 6 6 6 6 7 VI	al Elect PE-II PE-II PE-II PE-II PE-II PE-II PE-II OE-III	ive - II CV2361 CV2362 CV2363 CV2364 CV2365 CV2366 CV2367 CV2369 CV2370 CV2371 CV2372 CV2373 CV2374 CV2376 CV2376	PE-II: Building Services PE-II: New Engineering Materials PE-II: Construction Management An PE-II: Earthquake Engineering PE-II: Optimization Techniques PE-II: Introduction to Remote Sensir PE-II: Environmental Geotechniques PE-II: Traffic Engineering PE-II: Water Transmission and Distr PE-II: Structural Industrial Practices OE-III: Building Services Engineerin OE-III: Construction Techniques OE-III: Introduction to Environmenta OE-III: Basics of Transportation Eng OE-III: Besics of Water Resource Endication OE-III: Elements of Water Power Endication OE-IV: Elements of Earthquake Eng OE-IV: Introduction to Finite Elemento-IV: Air Pollution and Solid Waster	d Maching g ibution S imagering ineering gineering t Method Manage Manage	nery emer	ms	0	3	0				
1 2 3 4 5 6 7 8 8 9 10 Dpel 1 2 3 4 4 5 6 0 Dpel 1 2 2 3 4 4 5 6 0 Dpel 1 2 2 3 4 4 5 6 6 0 Dpel 1 2 2 3 4 5 6 6 0 Dpel 1 2 2 3 6 6 0 Dpel 1 2 2 5 6 6 Dpel 1 2 2 5 Dpel 1 2 Dpel 1 2 5 Dpel 1 2 Dpe	6 6 6 6 6 6 6 7 VI	al Elect PE-II PE-II PE-II PE-II PE-II PE-II PE-II PE-II OE-III OE-III OE-III OE-III ives -IV OE-IV OE-IV	ive - II CV2361 CV2362 CV2363 CV2364 CV2365 CV2366 CV2367 CV2370 CV2371 CV2372 CV2373 CV2374 CV2376 CV2381 CV2382	PE-II: Building Services PE-II: New Engineering Materials PE-II: Construction Management An PE-II: Earthquake Engineering PE-II: Optimization Techniques PE-II: Introduction to Remote Sensir PE-II: Environmental Geotechniques PE-II: Water Transmission and Distr PE-II: Water Transmission and Distr PE-II: Structural Industrial Practices OE-III: Building Services Engineerin OE-III: Introduction to Environmenta OE-III: Basics of Transportation Eng OE-III: Basics of Water Resource Endineerin OE-III: Elements of Water Power Endineerin OE-IV: Elements of Earthquake Eng OE-IV: Introduction to Finite Elemen	d Maching g ibution S imagering ineering gineering t Method Manage Manage	nery emer	ms	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

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

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Civil Engineering

SoE No. CV-201

SN	Sem	Туре	Туре	Туре	Sub.	Subject	T/P	Co	ntac	t Ho	urs	Credits	% Weightage			ESE Duration Hours
		7/24/20	Code	张		L	T	Р	Hrs		MSEs*	TA**	ESE			
			v	Seventh S	emest	er				00,				W		
1	7	PC	CV2401	Estimating & Costing	T	3	0	0	3	3	30	30	40	3		
2	7	PC	CV2402	Lab:- Estimating &Costing	Р	0	0	2	2	1		60	40			
3	7	PC	CV2403	Wastewater Engineering	Т	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	Т	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	Р	0	0	4	4	2		60	40			
9	7	STR	CV2410	Campus Recruitment Training (CRT)	P	0	0	0	0	2		100				
		- 4		1	OTAL	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

A Total Control of the Control of th					
1		7	PE-IV		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	1	7	PE-IV	CV2424	PE-IV: Wastewater Treatment
5	П	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	Т	7	PE-IV	CV2429	PE-IV: Watershed Management

Professional Elective - V

				And the state of t
1	7	PE-V		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

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

- CAN.	Antopoli	June 2020	1.02	Applicable for
Chairperson	Dean (Acad. Matters)	Date of Release	Version	AY 2020-21 Onwards
	Eigth 5	Semester	vari	*



Yeshwantrao Chavan College of Engineering

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SoE No.

CV-201

B.E. SCHEME OF EXAMINATION 2018-19

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

SN Sem	Туре	Sub.	Subject	T/P	Contact Hours			Credits	% Weightage			ESE Duration		
		7(5)(4)	Code	<u></u>		L	T	Р	Hrs		MSEs*	TA**	ESE	Hours
1	8	STR	CV2451	Major Project	P	0	0	12	12	9		60	40	
2	8	STR	CV2452	Extra curricular Activity Evaluation	Р	0	0	0	0	1		100		
				*	TOTAL	0	0	12	12	10				

And the second s					/16	
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

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



Yeshwantrao Chavan College of Engineering

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

B.E. SCHEME OF EXAMINATION 2018-19

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

Mechanical Engineering

SoE No. ME-201

SN	Sem	Туре	Sub. Code	Subject	T/P	Co	ontac	t Ho	ırs	Credits	% V	Veight	age	ESE Duration
			Code	TOTAL FIRST & SECOND	SEM	L	Т	Р	Hrs	47	MSEs*	TA**	ESE	Hours
				TOTAL FIRST & SECOND	JOEW					41	L.			
		,		Third Se	meste	r	r 14			,	re .	W.	,	
1	3	BS	GE2201	Engineering Mathematics III	T	3	0	0	3	3	30	30	40	3
2	3	PC	ME2201	Material Science & Metallurgy	т	3	0	0	3	3	30	30	40	3
3	3	PC	ME2202	Lab:- Material Science & Metallurgy	Р	0	0	2	2	1	0	60	40	
4	3	PC	ME2203	Machining Process	т	3	0	0	3	3	30	30	40	3
5	3	PC	ME2204	Lab:- Machining Process	Р	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	Р	0	0	2	2	1	0	60	40	
8	3	PC	ME2207	Kinematics of Machines	Т	3	0	0	3	3	30	30	40	3
9	3	PC	ME2208	Fluid Mechanics	т	4	0	0	4	4	30	30	40	3
10	3	PC	ME2209	Lab:- Fluid Mechanics	Р	0	0	2	2	1	0	60	40	
				Т	OTAL	20	0	8	28	24				
				Fourth S	emste	r								
1	4	BS	GE2204	Advance Mathematical Techniques	Ţ	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	т	3	0	0	3	3	30	30	40	3
4	4	PC	ME2253	Lab:- Machine Drawing	Р	0	0	2	2	1		60	40	
5	4	PC	ME2254	Manufacturing Process-II	Т	3	0	٥	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	Р	0	0	2	2	1		60	40	
				т	OTAL	16	0	6	22	19				
Audi	it Cour	SAS												
1	4	HS	GE2121	Env Studies for 4 Sem. CV,ME,EE,IT	А	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

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

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



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B.E. SCHEME OF EXAMINATION 2018-19

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

Mechanical Engineering

SoE No. ME-201

SN	Sem	Туре	Sub. Code	Subject	T/P	Co	ntac	t Ho	urs	Credits	% V	Veighta	age	ESE Duration
240000		100500000	Code	William White	9529	L	Т	Р	Hrs		MSEs*	TA**	ESE	Hours
				Fifth	Semeste	È								
1	5	нѕ	GE2311	Fundamental of Management	Т	3	0	0	3	3	30	30	40	3
2	5	PC	ME2301	Heat Transfer	Т	3	0	0	3	3	30	30	40	3
3	5	PC	ME2302	Lab:- Heat Transfer	Р	0	0	2	2	1		60	40	
4	5	PC	ME2303	Dynamics of Machines	Т	3	0	0	4	3	30	30	40	3
5	5	PC	ME2304	Lab:- Dynamics of Machines	Р	0	0	2	2	1		60	40	
6	5	PC	ME2305	Production Management	т	3	0	0	3	3	30	30	40	3
7	5	OE-I		Open Elective - I *	Т	3	0	٥	3	3	30	30	40	3
8	5	OE-II		Open Elective - II *	т	3	0	0	3	3	30	30	40	3
9	5	STR	ME2310	Industry Visit and its report	Р	0	0	0	0	1		100		
					TOTAL	18	0	4	23	21				

Open Electives -I

- 10-		11403	S.U.	
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
Ope	n Elect	tives -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

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

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



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SoE No.

ME-201

B.E. SCHEME OF EXAMINATION 2018-19

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

Mechanical Engineering

SN	Sem	Туре	Sub. Code	Subject	T/P	Co	ntac	t Ho	urs	Credits % Wei		Veight	age	ESE Duration
0.000000		754505000	Code	0 () () () () () () () () () (L	Т	Р	Hrs	CONTRACTOR COLUMN	MSEs*	TA**	ESE	Hours
				Sixth S	emeste	r								
1	6	HS	GE2312	Fundamental of Economics	T	3	0	0	3	3	30	30	40	3
2	6	PC	ME2351	Fluid Machines	Т	3	0	0	3	3	30	30	40	3
3	6	PC	ME2352	Lab:- Fluid Machines	Р	0	0	2	2	1		60	40	
4	6	PC	ME2353	Computer Aided Design (CAD LAB)	Р	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	Р	0	0	2	2	1		60	40	
8	6	OE-III		Open Elective - III **	Т	3	0	0	3	3	30	30	40	3
9	6	OE-IV	4.5	Open Elective - IV **	T	3	0	0	3	3	30	30	40	3
					TOTAL	18	0	6	24	21				

^{*} Refure list Open Elective- I & II

^{**} Refure list Open Elective- III & IV

Audi	Audit Courses										
1	6	IT	IT1121	Industrial Programmin Language	Α	3	0	0	3	0	

List of Professional Electives-I

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

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



SN Sem Type

Sub.

Nagar Yuwak Shikshan Sanstha's

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B.E. SCHEME OF EXAMINATION 2018-19

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

Mechanical Engineering

Subject

Contact Hours

Credits

SoE No. ME-201

% Weightage

ESE

Duration

		100000000000000000000000000000000000000	Code	Subject	0.59			1000						19 1000
			Suito theoret var			L	Т	Р	Hrs		MSEs*	TA**	ESE	Hour
				Seventh S	emes	ter								
	7	PC	ME2401	Automation In Production	Т	3	0	0	3	3	30	30	40	3
	7	PC	ME2402	Lab:- Automation In Production	P	0	0	2	2	1		60	40	
	7	PE		Professional Elective II	Т	3	0	0	3	3	30	30	40	3
	7	PE		Professional Elective III	Ť	3	0	ō	3	3	30	30	40	3
5	7	PE	-	Lab:- Professional Elective III	P	ō	0	2	2	1	.50	60	40	
\rightarrow			2								20	9,7,17,0		
3	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		Mini Project	Ρ	0	0	4	4	2		60	40	
9	7	STR	ME2410	Campus Recrutment Training (CRT)	P	0	0	0	0	2		100		
- 1100				Т	OTAL	15	0	8	23	21			, ,,	
-					- 11 1		-					41	÷ ;	
OTE	ssion	al Elect	THE COLUMN THE PARTY OF THE PAR											
1	7	PE-II	ME2411	PE II: Tool Design										
2				PE II: Rapid Prototyping										
3				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				PE II : Reliability Engineering										
7				PE II: Advanced Manufacturing Techn	iques	11								
8				PE II : Optimization Techniques										
ofe	ession	al Elect	ives -III											
9	7	PE-III	ME2421	PE III : Vibration										
0	7	PE-III	ME2422	PE III: Lab:- Vibration										
1	7	PE-III	ME2423	PE III: Machine Tool Design										
2				PE III: Lab:- Machine Tool Design										
3				PE III : Industrial Fluid Power										
4				PE III : Lab:- Industrial Fluid Power										
5	7	PF-III	MF2427	E III : Vehicle Engineering										
6	7	PF-III	ME2428	E III : Venide Engineering E III : Lab:- Vehide Engineering										
7				E III : Solar Energy and It'S Utilisation										
18	7	PF-III	ME2430	E III : Solar Energy and it'S Utilisation										
9	7			PE III : CNC & Robotics										
20				PE III : Lab:- CNC & Robotics										
21				PE III : DBMS										
22	7			PE III : Lab:- DBMS										
23				PE III: Advanced Welding Techniques										
24				PE III: Lab:- Advanced Welding Tech										
	100		ives -IV	The state of the s		_								
25				PE IV : Sysnthesis of Mechanism										
					o o no b l									
26	7	DE IV	MEDAAR	PE IV : Design for Manufacturing & As PE IV : Renewable Energy System	sembl	у								
27	7	DE IV	MED444	PE IV : Renewable Energy System PE IV : Engineering of Plastics										
8	7	DE IV	MEDIA	DE IV. Einenes & Contidence										
29	7	DE IV	ME2445	PE IV : Finance & Cost Management										
0				PE IV : Artificial Intelligence										
1	7			PE IV : Maintainance Management										
2				PEIV: TOM										
3	7	PE-IV	ME2449	PE IV : Project Evaluation & Managem	ent									
4				PE V : Stress Analysis										
5	7	PE-V	ME2462	PE V : Product Design and Developme	ent									
6	7	PE-V	ME2463	PE V : Power Plant Engineering										
7	7	PE-V	ME2464	PEV: Air Conditioning										
8	1			PE V : Value Engineering										
9	7	PE-V	ME2466	PE V: Design of Experiments and Tag	uchi N	1etho	ds							
0				PE V : Industrial Safety										
1		PE-V	ME2468	PE V : Control System Engineering										
2	7	PE-V	ME2469	PE V : Tribology										
3				PE V : Value Engineering										
4				PE V: Design of Experiments and Tag	uchi N	letho	ds							
45	7	PE-V	ME2467	PE V : Industrial Safety										
TO.			MEDICO	PE V : Control System Engineering										
16	7	PE-V	MEZ468	FE V. Control System 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

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

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



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B.E. SCHEME OF EXAMINATION 2018-19

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

Mechanical Engineering

SoE No. ME-201

SN	Sem	Туре	Sub. Code	Subject	T/P	Co	ntac	t Ho	urs	Credits	% V	% Weightage		
		154500000	Code	\$1000100000000000000000000000000000000	9,500	L	T	Р	Hrs		MSEs*	TA**	ESE	Hours
				Eigth S	emeste	r								
1	8	STR	ME2451	Major Project	Р	0	0	12	12	9		60	40	
2	8	STR	ME2452	Extra curricular Activity Evaluation	Р	0	0	0	0	1		100		
					TOTAL	0	0	12	12	10				
				GRAND	TOTAL	97	0	44	132	163	ľ			

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

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



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

B.E. SCHEME OF EXAMINATION 2018-19

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

Electrical Engineering

SoE No. EL-201

SN	Sem	Туре	Sub. Code	Subject	T/P	Co	ontac	t Ho	urs	Credits	% W	/eighta	ge	ESE Duration
		98421:	Code	276		L	Т	Р	Hrs		MSEs*	TA**	ESE	Hours
	-	5		TOTAL FIRST & SEC	OND SEM				i, i	47				
		2		Thire	d Semeste						y ===			
1	3	BS	GE2201	Engineering Mathematics III	_	3	0	0	3	3	30	30	40	3 Hours
2	3	PC	EL2201	Analog Electronics	Т	3	0	0	3	3	30	30	40	3 Hours
3	3	PC	EL2202	Lab. : Electronics Engineering Workshop	Р	0	0	2	2	1		60	4 0	
4	3	PC	EL2203	Electrical Machines	T	4	0	0	4	4	30	30	40	3 Hours
5	3	PC	EL2204	Lab.:Electrical Machines	Р	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	Р	0	0	2	2	1		60	40	
8	3	PC	EL2207	Electrical Measurement & Instrumentation	Т	3	0	0	3	3	30	30	4 0	3 Hours
9	3	PC	EL2208	Lab.:⊟ectrical Measurement & Instrumentation	Р	0	0	2	2	1		60	40	
					TOTAL	16	0	8	24	20				

				Fourth S	Semste	r								
1	4	BS	GE2204	Advance Mathematical Techniques	Т	3	0	0	3	3	30	30	40	3 Hours
2	4	PC	EL2251	Electrical Machines in Power System	Т	3	0	0	3	3	30	30	40	3 Hours
3	4	PC	EL2252	Lab.:Electrical Machines in Power System	Р	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	Р	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	Р	0	0	2	2	1		60	40	
8	4	PC	EL2257	Microprocessor	Т	3	0	0	3	3	30	30	40	3 Hours
9	4	PC	EL2258	Lab.:Microprocessor	Р	0	0	2	2	1		60	40	
10	4	PC	EL2259	Signals & Systems	T	4	0	0	4	4	30	30	40	3 Hours
				,	OTAL	19	0	8	27	23				

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

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

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



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B.E. SCHEME OF EXAMINATION 2018-19

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Electrical Engineering

SoE No. EL-201

ESE

SN	Sem	Туре	Sub. Code	Subject	T/P	Co	ontac	t Ho	urs	Credits	% V	Veighta	age	ESE Duration
		9400	Code			L	Т	Р	Hrs		MSEs*	TA**	ESE	Hours
				Fifth :	Semeste	Ţ							,	
1	5	HS	GE2312	Fundamental of Economics	Т	3	0	0	3	3	30	30	40	3 Hours
2	5	PC	EL2301	Power ⊟ectronics	T	3	0	0	3	3	30	30	40	3 Hours
3	5	PC	EL2302	Lab.:Power Electronics	Р	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	Р	0	0	2	2	1		60	40	
7		ΘE		Open ⊟ective - I *	T	3	0	0	3	3	30	30	40	3 Hours
8	5	0E		Open Elective - II *	T	3	0	0	3	3	30	30	40	3 Hours
					TOTAL	18	0	4	22	20				9
Audi	t Cour	ses			0 0					-	7			
1	5	IT	IT1121	Industrial Programmin Language	A	3	0	0	3	0				
Oper	n Electi	ves -l												
1	5	OE	EL2311	OEI:Renewable Energy Generation S	system									
2	5	OE	EL2312	OEI:Electrical Machines and their	Applica	tions	;							
3	5	OE	EL2313	OEI:Testing and Maintenance of	Electrica	l Ma	chine	es						
Opei	n Electi	ves -II												
4	5	OE	EL2321	OEII: Electrical Energy Audit and	Safety									
5	5	OE	EL2322		EII:Utilization of Electrical Energy									
6	5	OE	EL2323	OEII:Power System Engineering	A STREET WATER STREET S									

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

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



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Electrical Engineering

SoE No. EL-201

SN	Sem	Туре	Sub. Code	Subject	T/P	Co	ontac	t Hou	ırs	Credits	% Weightage			ESE Duration
		94E0	Code			L	Т	Р	Hrs		MSEs*	TA**	ESE	Hours
		40. U-		Sixth Se	emeste	r				/#-				
1	6	HS	GE2311	Fundamental of Management	Т	3	0	0	3	3	30	30	4 0	3 Hours
2	6	PC	EL2351	Control System	Т	3	0	0	3	3	30	30	40	3 Hours
3	6	PC	EL2352	Lab.:Control System	Р	0	0	2	2	1		60	40	
4	6	PC	EL2353	Power System Analysis	Т	3	0	0	3	3	30	30	40	3 Hours
5	6	PE		Professional Elective I	Т	3	0	0	3	3	30	30	40	3 Hours
6	6	PE	EL2354	Lab.:Simulation of Power Electronics & Power System	Р	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	Р	0	0	2	2	1		60	40	
10	5/6	STR	EL2360	Industry Visit and its report	Р	0	0	0	0	1		60	40	
				,	TOTAL	18	0	6	24	22				
	M-200000 ■-2000000	al Electi	ANNORMA TO B									V 10		

(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

Ope		ALIVOS III								
6	6	OE	EL2371	DEIII: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

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

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



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B.E. SCHEME OF EXAMINATION 2018-19

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

Electrical Engineering

SoE No. EL-201

				Electrical E	ngine	erin	g							
SN	Sem	Туре	Sub. Code	Subject	T/P	Co	ontac	t Ho	urs	Credits	% V	Veight	age	ESE Duration
		2000-	Code	80045		L	T	Р	Hrs		MSEs*	TA**	ESE	Hours
1				Seventh :	Semes	ter								
1	7	PC	EL2401	Switchgear & Protection	Т	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	Т	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	Т	3	0	0	3	3	30	30	40	3 Hours
6	7	PE		Professional Elective III	Т	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	Р	0	0	4	4	2		100		
9	7	STR	EL2410	Campus Recrutment Training (CRT)	Р	0	0	0	0	2		100		
		·	•		TOTAL	15	0	8	23	21				
Deaf	!	al Electi	11									<u> </u>		
1	7	PE		PEII: Fundamentals of Power Qual	itv									
2	7	PE		PEII:Electrical Installation Design										
3	7	PE	Control of the Contro	PEII:Electrical Machine Design										
4	7	PE	EL2421	PEII: Power System Operation and	Contr	ol								
Deaf	!	al Electi	una III											
5	7	PE	EL2422	PEIII:FACTS Devices										
6	7	PE	Chicological transfer of the Chicago	PEIII: Electrical Energy Audit and S	afety A	nalv	sis							
7	7	PE		PEIII:Advanced Control System	aroty /		OIO.							
8	7	PE	EL2425	PEIII:Artificial Intelligence Based S	ystem									
Prof	ession	al Electi	ives -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	Syster	n								
	-			2433 PETV.Computer Methods in Fower System										

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

EL2434 PEIV:EHVAC-HVDC Transmission

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



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B.E. SCHEME OF EXAMINATION 2018-19

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

Electrical Engineering

SoE No. EL-201

SN	Sem	Туре	Sub. Code	Subject	T/P	Co	ontac	t Hou	ırs	Credits	% Weightage		ESE Duration	
		98/27:	Code	12745		L	Т	Р	Hrs		MSEs*	TA**	ESE	Hours
				Eigth :	Semeste	г								
1	8	STR	EL2451	Major Project	Р	0	0	12	12	9		60	4 0	
2	8	STR	EL2452	Extra curricular Activity Evaluation	Р	0	0	0	0	1		100		
-15		ie 30			TOTAL	0	0	12	12	10				
				CRAND	TOTAL	oc	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

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



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B.E. SCHEME OF EXAMINATION 2018-19

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

Electronics Engineering

SoE No. EE-201

SN	Sem	Туре	Sub. Code	Subject	T/P	Co	1000-000	t Hou	220.80	Credits		Veighta		ESE Duration
				TOTAL FIRST & SECONI	D SEM	L	Т	Р	Hrs	47	MSEs*	TA**	ESE	Hours
										7.	Li.			
				Third Se	emeste	F		_	-					
1	3	BS	GE2201	Engineering Mathematics III	Т	3	0	0	3	3	30	30	40	3 Hour
2	3	PC	EE2201	Electronic Devices	Т	3	1	0	4	4	30	30	40	3 Hour
3	3	PC	EE2202	Lab:Electronic Devices	Р	0	0	2	2	1		60	4 0	
4	3	PC	EE2203	Signal and Systems	T	3	0	0	3	3	30	30	4 0	3 Hour
5	3	PC	EE2204	Lab:Programming Language	Р	0	0	2	2	1		60	40	
6	3	PC	EE2205	Digital Logic Design	Т	3	0	0	3	3	30	30	40	3 Hour
7	3	PC	EE2206	Lab: Digital Logic Design	Р	0	0	2	2	1	7	60	40	
8	3	PC	EE2207	Network Analysis	T	3	0	0	3	3	30	30	4 0	3 Hour
9	3	PC	EE2208	Lab:Network Analysis	Р	0	0	2	2	1		60	40	
				1	TOTAL	15	1	8	24	20				
				Fourth \$	Semste	r								
1	4	BS	GE2204	Advance Mathematical Techniques	Т	3	0	0	3	3	30	30	4 0	3 Hour
2	4	PC	EE2251	Electronic Circuits	Т	3	0	0	3	3	30	30	40	3 Hour
3	4	PC	EE2252	Lab:Electronic Circuits	Р	0	0	2	2	1		60	40	
4	4	PC	EE2253	Microcontroller and its Applications	Т	3	0	0	3	3	30	30	4 0	3 Hour
5	4	PC	EE2254	Lab: Microcontroller and its Applications	Р	.0	0	2	2	1		60	4 0	
6	4	PC	EE2255	Analog Communication	Т	3	0	0	3	3	30	30	40	3 Hour
7	4	PC	EE2256	Lab.: Analog Communication	Р	0	0	2	2	1		60	4 0	
8	4	PC	44/44/200	Electromagnetic Fields	Т	3	1	0	4	4	30	30	40	3 Hour
9	4	PC	EE2258	Lab: Simulation Lab/Workshp Lab	Р	0	0	2	2	1		60	40	
				7	OTAL	15	1	8	24	20				
ludi	t Cours	ses												
1	4	HS	GE2121	Env Studies for 4 Sem. CV,ME,EE,IT	Α	3	0	0	3	0	8			

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

axand	Andrew March	June 2020	1.02	Applicable for
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(Revised Scheme of Examination w.e.f. 2020-21 onward)

SOE No. EE-201

SN	Sem	Туре	Sub.	Electronics Subject	T/P		ontac	t Ho	ırs	Credits	% V	Veighta	ige	ESE Duration
		78-E-1	Code	8 5		L	Т	Р	Hrs		MSEs*	TA**	ESE	Hours
				Fifth S	emeste	Ę								
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	Р	0	0	2	2	1		60	40	
4	5	PC	EE2303	Analog Integrated Circuit & its Application	Т	3	0	0	3	3	30	30	40	3 Hours
	5	PC	EE2304	Lab: Analog Integrated Circuit & its Application	Р	0	0	2	2	1		60	4 0	
5	5	PE		Professional Elective-I	Т	3	0	0	3	3	30	30	40	3 Hours
6	5	PE		Lab.: Professional ⊟ective-I	Р	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 *	Т	3	0	0	3	3	30	30	4 0	3 Hours
9	5	STR	EE2310	Industry Visit and its report	Р	0	0	0	0	1		100		
				-	TOTAL	18	0	6	24	22				
List	of Aud	it Cours	es											
1	5	ΙΤ	IT1121	Industrial Programmin Language	Α	3	0	0	3	0				
Prof	ession	al Electi	ves -l											
1	5	PE-I	EE2311	PE-I:Computer Communication Netwo	rk									
2	5	PE-I	EE2312	Lab:PE-I:Computer Communication N	etwork									
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										
_	5	PE-I	EE2316	Lab:PE-I:Algorithm & Data Structure										
6		PE-I	EE2317	PE-I: Applied Machine Learning										
7	5		EE2311											
-	5 5	PE-I	EE2318	Lab:PE-I:Applied Machine Learning										
7 8 Oper	5 n Elect	PE-I	EE2318	Lab:PE-I:Applied Machine Learning										
7 8 Oper	5 n Elect	PE-I ives -I OE-I	EE2318 EE2331	Lab:PE-I:Applied Machine Learning OE I: Fuzzy Logic & Neural Network										
7 8 Oper 1 2	5 n Elect 5	PE-I ives -I OE-I OE-I	EE2318 EE2331 EE2332	Lab:PE-I:Applied Machine Learning OE I: Fuzzy Logic & Neural Network OE I: Basics of Analog and Digital Co	mmunic	ation								
7 8 Oper 1 2 3	5 5 5 5	PE-I ives -I OE-I OE-I OE-I	EE2318 EE2331	Lab:PE-I:Applied Machine Learning OE I: Fuzzy Logic & Neural Network	mmunic	ation								
7 8 Oper 1 2 3	5 n Elect 5	PE-I ives -I OE-I OE-I OE-I	EE2318 EE2331 EE2332	Lab:PE-I:Applied Machine Learning OE I: Fuzzy Logic & Neural Network OE I: Basics of Analog and Digital Co	mmunic	ation								
7 8 Oper 1 2 3	5 5 5 5	PE-I ives -I OE-I OE-I OE-I	EE2318 EE2331 EE2332	Lab:PE-I:Applied Machine Learning OE I: Fuzzy Logic & Neural Network OE I: Basics of Analog and Digital Co										
7 8 Oper 1 2 3 Oper	5 5 5 5 n Elect	PE-I ives -I OE-I OE-I ives -II	EE2318 EE2331 EE2332 EE2333	CET: Fuzzy Logic & Neural Network OET: Basics of Analog and Digital Co OET: Biomedical Instrumentation	litioning									

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

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

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

Electronics Engineering

SoE No. EE-201

SN	Sem	Туре	Sub. Code	Subject	T/P	Co	ontac	t Ho	urs	Credits	% V	% Weightage		ESE Duration
		99600	Code	1999		L	T	Р	Hrs		MSEs*	TA**	ESE	Hours
				Sixth Se	emeste	r								
1	6	HS	GE2312	Fundamental of Economics	Т	3	0	0	3	3	30	30	40	3 Hours
2	6	PC	EE2351	Control System Engineering	Т	3	0	0	3	3	30	30	40	3 Hours
3	6	PC	EE2352	Transmission Lines and Waveguides	Р	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	Т	3	0	0	3	3	30	30	40	3 Hours
7	6	PE		Professional Elective-II	Т	3	0	0	3	3	30	30	40	3 Hours
8	6	PE		Lab.: Professional Elective-II	Р	0	0	2	2	1		60	40	
9	6	OE		Open Elective - III **	Т	3	0	0	3	3	30	30	40	3 Hours
10	6	OE		Open Elective - IV **	Т	3	0	0	3	3	30	30	40	3 Hours
<i>12</i>				7	TOTAL	21	0	4	25	23				

Professional Electives -II

្ន	6	PEII	EE2361	PE II:Internet of Things
8	6	PEII	EE2362	Lab: PE II:Internet of Things
2	6	PEII	EE2363	PE II:Digital CMOS Circuits
	6	PEII	EE2364	Lab: PE II:Digital CMOS Circuits
3	6	PEII	EE2365	PE II:Digital Image Processsing
3	6	PEII	EE2366	Lab:PE II:Digital Image Processsing
4	6	PEII	EE2367	PE II:Object Oriented Programming
4	6	PEII	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
Ope	n Elec	tives -IV	Ž_	
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

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

axand	And Angelo	June 2020	1.02	Applicable for
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B.E. SCHEME OF EXAMINATION 2018-19

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cheme of Examination w.e.f. 2020-21 on

SOE No.

EE-201

Electronics Engineering

SN	Sem	Туре	Sub. Code	Subject	T/P	Co	ontac	t Ho	urs	Credits	% Weightage			ESE Duration
		940.0	Code			L	Т	Р	Hrs		MSEs*	TA**	ESE	Hours
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	Р	0	0	2	2	1		60	40	
3	7	PE		Professional Elective-III	Т	3	0	0	3	3	30	30	40	3 Hours
4	7	PE		Professional Elective-IV	Т	3	0	0	3	3	30	30	40	3 Hours
5	7	PE		Lab. : Professional Elective-IV	Р	0	0	2	2	1		60	40	
6	7	PE		Professional Elective-V	Т	3	0	0	3	3	30	30	40	3 Hours
7	7	PE		Professional Elective-VI	Т	3	0	0	3	3	30	30	40	3 Hours
8	7	STR	EE2409	Mini Project	Р	0	0	4	4	2		100		
9	7	STR	EE2410	Campus Recrutment Training (CRT)	Р	0	0	0	0	2	c.	100		9
					TOTAL	15	0	8	23	21				

Professional Electives -III

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

Professional Electives -IV

PT. N. S. S. S. S.		WI		
7	7	PE IV	EE2421	PE IV: Wireless Communication
1	7	PE IV	EE2422	Lab: PE IV:Wireless Communication
2	7	The second second	INCHES CATALOG SAN THE SAN	PE IV: RF and Microwave
2	7	PE IV	EE2424	Lab: PE IV: RF and Microwave
3	7	PE IV	EE2425	PE IV: Analog VLSI Design
J	7	PE IV	EE2426	Lab. : PE IV: Analog VLSI Design
4	7	PE IV	EE2427	PE IV: Operating Systems
100	7	PE IV	EE2428	Lab: PE IV:Operating Systems

Professional Electives -V

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

Professional Electives -VI

1		7	PE-VI	EE2441	PE-VI: E-Commerce and Data Analytics
2	į,	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

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

marke-	June 2020	1.02	Applicable for		
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B.E. SCHEME OF EXAMINATION 2018-19

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Electronics Engineering

SoE No. EE-201

SN	Sem	Туре	Sub.	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration
		78%:N-	Code	9657G		L	T	Р	Hrs		MSEs*	TA**	ESE	Hours
1	8	STR	EE2451	Major Project/Industrial Internship Evaluation	Р	0	0	12	12	9		60	40	
2	8	STR	EE2452	Extra curricular Activity Evaluation	Р	0	0	0	0	1		100		
100		× ×			TOTAL	0	0	12	12	10				

i	7		E 0		0	S	NC.
ı	GRAND TOTAL	84	2	46	132	163	
	CIONED TOTAL	04	~	40	122	100	

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

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Electronics & Telecommunication Engineering

SoE No. ET-201

SN	Sem	Туре	Sub. Code	Subject	T/P	Co	ntac	t Ho	urs	Credits	% v \	/eighta	ge	ESE Duration
		(1) Table :	Code	8		L	Т	Р	Hrs		MSEs*	TA**	ESE	Hours
		to St		TOTAL FIRST & SECON	D SEM					47	3.4	5,412		
				Third Se	ernester									
1	3	BS	GE2201	Engineering Mathematics III	Т	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	Р	0	0	2	2	1		60	40	
4	3	PC	ET2203	Digital Circuits and Fundamentals of Microprocessor.	Т	3	0	0	3	3	30	30	40	3 Hours
5	3	PC	ET2204	Lab: Digital Circuits and Fundamentals of Microprocessor.	Р	0	0	2	2	1		60	40	
6	3	PC	ET2205	Electronic Measurement and Instrumentation	Т	3	0	0	3	3	30	30	40	3 Hours
7	3	PC	ET2206	Lab: Electronic Measurement and Instrumentation	Р	0	0	2	2	1		60	40	
8	3	PC	ET2207	Network Analysis	Т	3	0	0	3	3	30	30	40	3 Hours
				TOTAL THIR	D SEM	15	1	6	22	19				

				Fourth	Semste	r					4.1			
1	4	BS	GE2204	Advance Mathematical Techniques	Т	3	0	0	3	3	30	30	40	3 Hours
2	4	PC	ET2251	Electromagnetic Fields	Т	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	Р	0	0	2	2	1		60	40	
5	4	PC	ET2254	Analog Communication	Т	3	0	0	3	3	30	30	40	3 Hours
6	4	PC	ET2255	Lab: Analog Communication	Р	0	0	2	2	1		60	40	
7	4	PC	ET2256	Control Systems	Т	3	0	0	3	3	30	30	40	3 Hours
8	4	PC	ET2257	Lab.: Control Systems	Р	0	0	2	2	1		60	40	
		l.		TOTAL FOURT	H SEM	15	1	6	22	19				

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

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

There Promes	Andread	June 2020	1.02	Applicable for
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B.E. SCHEME OF EXAMINATION 2018-19

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Flectronics & Telecommunication Engineering

SoE No. ET-201

SN	Sem	Туре	Sub. Code	Subject	T/P	Co	intac	t Ho	urs	Credits	% Weightage		ige	ESE Duration
		WANTE	Code			L	T	Р	Hrs		MSEs*	TA**	ESE	Hours
				Fifth S	Semester									
1	5	HS	GE2312	Fundamental of Economics	Т	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	Р	0	0	2	2	1		60	40	
4	5	PC	ET2303	Fields & Radiating Systems	Т	3	1	0	4	4	30	30	40	3 Hours
5	5	PC	ET2304	Signals & Systems	Т	3	0	0	3	3	30	30	40	3 Hours
6	5	PC	ET2305	Lab. :Signals & Systems	Р	0	0	2	2	1		60	40	
7	5	OE		Open Elective - I *	Т	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	Р	0	0	2	2	1		60	40	
10	5/6	STR	ET2310	Industry Visit and its report	Р	0	0	0	0	1		100		
				TOTAL FIF	TH SEM	18	1	6	25	23			· .	

			TOTALTI				0	23	ZJ				
t Cour	ses	2	85	(%)	6	100 1			8	F6			
5	ΙT	IT1121	Industrial Programmin Language	Α	3	0	0	3	0				
Onen Electives I													
5	OE 1	ET2311	OET: Microcontroller & Embedded S	ystems									
5	OE 1	ET2312	OET: Principles of Communication E	ngineeri	ng								
5	OE 1	ET2313	OE I: Fundamentals of Image Proce	ssing	-								
ı Elect	ives -II												
5	OE 2	ET2321	OE II: Soft computing										
5	OE 2	ET2322	OE II: Industrial Instrumentation										
5 OE 2 ET2323 OE II : Medical Electronics													
5	OE 2	ET2324	OE II: Display Technology & Applica	tions									
5	OE 2	ET2325	OE II: PLCs and SCADA										
	5 5 5 n Elect	5 OE 1 5 OE 2 5 OE 2 5 OE 2	5 IT IT1121 DESCRIPTION OF THE PROPERTY OF TH	t Courses 5 IT IT1121 Industrial Programmin Language n Electives -I 5 OE 1 ET2311 OE I : Microcontroller & Embedded S 5 OE 1 ET2312 OE I : Principles of Communication E 5 OE 1 ET2313 OE I : Fundamentals of Image Proce n Electives -II 5 OE 2 ET2321 OE II : Soft computing 5 OE 2 ET2322 OE II : Industrial Instrumentation 5 OE 2 ET2323 OE II : Medical Electronics 5 OE 2 ET2324 OE II : Display Technology & Application	t Courses 5 IT IT1121 Industrial Programmin Language A n Electives -I 5 OE 1 ET2311 OE I: Microcontroller & Embedded Systems 5 OE 1 ET2312 OE I: Principles of Communication Engineeri 5 OE 1 ET2313 OE I: Fundamentals of Image Processing n Electives -II 5 OE 2 ET2321 OE II: Soft computing 5 OE 2 ET2322 OE II: Industrial Instrumentation 5 OE 2 ET2323 OE II: Medical Electronics 5 OE 2 ET2324 OE II: Display Technology & Applications	t Courses 5 IT IT1121 Industrial Programmin Language A 3 n Electives I 5 OE 1 ET2311 OE I: Microcontroller & Embedded Systems 5 OE 1 ET2312 OE I: Principles of Communication Engineering 5 OE 1 ET2313 OE I: Fundamentals of Image Processing n Electives II 5 OE 2 ET2321 OE II: Soft computing 5 OE 2 ET2322 OE II: Industrial Instrumentation 5 OE 2 ET2323 OE II: Medical Electronics 5 OE 2 ET2324 OE II: Display Technology & Applications	t Courses 5 IT IT1121 Industrial Programmin Language A 3 0 n Electives I 5 OE1 ET2311 OE1: Microcontroller & Embedded Systems 5 OE1 ET2312 OE1: Principles of Communication Engineering 5 OE1 ET2313 OE1: Fundamentals of Image Processing n Electives II 5 OE2 ET2321 OE II: Soft computing 5 OE2 ET2322 OE II: Industrial Instrumentation 5 OE2 ET2323 OE II: Medical Electronics 5 OE2 ET2324 OE II: Display Technology & Applications	t Courses 5 IT IT1121 Industrial Programmin Language A 3 0 0 n Electives -I 5 OE 1 ET2311 OE I: Microcontroller & Embedded Systems 5 OE 1 ET2312 OE I: Principles of Communication Engineering 5 OE 1 ET2313 OE I: Fundamentals of Image Processing n Electives -II 5 OE 2 ET2321 OE II: Soft computing 5 OE 2 ET2322 OE II: Industrial Instrumentation 5 OE 2 ET2323 OE II: Medical Electronics 5 OE 2 ET2324 OE II: Display Technology & Applications	t Courses 5 IT IT1121 Industrial Programmin Language A 3 0 0 3 n Electives -I 5 OE 1 ET2311 OE I: Microcontroller & Embedded Systems 5 OE 1 ET2312 OE I: Principles of Communication Engineering 5 OE 1 ET2313 OE I: Fundamentals of Image Processing n Electives -II 5 OE 2 ET2321 OE II: Soft computing 5 OE 2 ET2322 OE II: Industrial Instrumentation 5 OE 2 ET2323 OE II: Medical Electronics 5 OE 2 ET2324 OE II: Display Technology & Applications	t Courses 5 IT IT1121 Industrial Programmin Language A 3 0 0 3 0 6 Electives -I 5 OE 1 ET2311 OE I : Microcontroller & Embedded Systems 5 OE 1 ET2312 OE I : Principles of Communication Engineering 5 OE 1 ET2313 OE I : Fundamentals of Image Processing 6 OE 2 ET2321 OE II : Soft computing 5 OE 2 ET2322 OE II : Industrial Instrumentation 5 OE 2 ET2323 OE II : Medical Electronics 5 OE 2 ET2324 OE II : Display Technology & Applications	Courses	Courses	t Courses 5 IT IT1121 Industrial Programmin Language A 3 0 0 3 0 6 Electives -I 5 OE 1 ET2311 OE I : Microcontroller & Embedded Systems 5 OE 1 ET2312 OE I : Principles of Communication Engineering 5 OE 1 ET2313 OE I : Fundamentals of Image Processing 6 Electives -I 5 OE 2 ET2321 OE II : Soft computing 5 OE 2 ET2322 OE II : Industrial Instrumentation 5 OE 2 ET2323 OE II : Medical Electronics 5 OE 2 ET2324 OE II : Display Technology & Applications

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

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



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B.E. SCHEME OF EXAMINATION 2018-19

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

Electronics & Telecommunication Engineering

SoE No. ET-201

SN	Sem	Туре	Sub. Code	Subject	T/P	Co	ontac	t Ho	urs	Credits	% Weightage			ESE Duration
		Water :	Code			L	Т	Р	Hrs		MSEs*	TA**	ESE	Hours
-			W	Sixth S	emeste	r				98-	÷			
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	Р	0	0	2	2	1		60	40	
4	6	PE		Professional Elective I	Т	3	0	0	3	3	30	30	40	3 Hours
5	6	PE		Lab. : Professional Elective I	Р	0	0	2	2	1		60	40	
6	6	PE		Professional Elective II	Т	3	0	0	3	3	30	30	40	3 Hours
7	6	PE		Lab. : Professional Elective II	Р	0	0	2	2	1		60	40	
8	6	OE		Open Elective - III **	Т	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
:0				TOTAL SIXT	TH SEM	18	0	6	24	21				

Professional Electives -	9	6	OE		Open Elective - IV **	Ţ	3	0	0	3	3	30	30	40	3 Hours
1					TOTAL SIXTH	SEM	18	0	6	24	21				
1		3 (1 () 4 (1 ()													
2	Profe														
3	1	2000													
4						ng									
6 6 PEI ET2365 PEI: Lab. Microprocessors and Peripherals 7 6 PEI ET2367 PEI: Lab. Microprocessors and Peripherals 7 6 PEI ET2368 PEI: Lab Croin Construmentation 8 6 PEI ET2371 PEI: Lab Electronic Instrumentation 9 6 PEI ET2371 PEI: Lab Fundamentals of Computing 10 6 PEI ET2372 PEI: Lab Fundamentals of Computing 11 6 PEI ET2373 PEI: Adjorithms and data structures 12 6 PEI ET2374 PEI: Lab Adjorithms and data structures 12 6 PEII ET2377 PEII: Ab Antenna Theory & Design 2 6 PEII ET2378 PEII: Lab Antenna Theory & Design 3 6 PEII ET2380 PEII: Internet of Things (loT) 4 6 PEII ET2381 PEII: Lab Digital system Design 5 6 PEII ET2383 PEII: Lab Optical Communication 8		1000	The state of the s												
6 6 PEI ET2366 PEI Lettonic Instrumentation 8 6 PEI ET2377 PEI Lab Electronic Instrumentation 9 6 PEI ET2373 PEI Lab Electronic Instrumentation 10 6 PEI ET2371 PEI: Fundamentals of Computing 11 6 PEI ET2372 PEI Lab Fundamentals of Computing 12 6 PEI ET2373 PEI Lab Fundamentals of Computing 11 6 PEI ET2374 PEI Lab Algorithms and data structures Professional Electives -II 1 6 PEII ET2377 PEII. Antenna Theory & Design 2 6 PEII ET2379 PEII. Lab Antenna Theory & Design 3 6 PEII ET2379 PEII. Lab Antenna Theory & Design 4 6 PEII ET2379 PEII Lab Digital system Design 5 6 PEII ET2380 PEII Lab Digital system Design 6 PEII ET2381 PEII Lab Digital System Design 7 6 PEII ET2383 PEII Lab Digital System Design 9 6 PEII ET2383 PEII Lab Digital System Design 10 6 PEII ET2383 PEII Lab Digital System Design 9 6 PEII ET2383 PEII Lab Digital Communication 9 6 PEII ET2384 PEII Lab Optical Communication 9 6 PEII ET2385 PEII Lab Principles of image processing 10 6 PEII ET2386 PEII Lab Principles of image processing 11 6 PEII ET2388 PEII Lab Principles of image processing 12 6 PEII ET2388 PEII Lab Principles of image processing 10 6 PEII ET2388 PEII Lab Principles of image processing 11 6 OPE3 ET2393 OE III Fundamentals of Image Processing 12 6 OPE3 ET2393 OE III Principles of Image Processing 13 6 OPE3 ET2393 OE III Fundamentals of Image Processing 14 6 OPE3 ET2393 OE IV Soft computing 5 6 OPE4 ET2399 OE IV Soft computing 5 6 OPE4 ET2399 OE IV Display Technology & Applications		100													
T	100	20500	11/2	E12300	DE L. Lab Microprocessors and Peripherals	orolo									
8						erais									
9	-	_		Part of the Part o											
10		_													
11		1000				8									
Professional Electives - II		177													
Professional Electives -II	A	10.774	1000000000			10									
1		0			PET.Lab Algorithms and data structure	33									
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: Lab. Digital system Design 6 6 PE II ET2381 PE II: Lab. Internet of Things (IoT) 7 6 PE II ET2382 PE II: Lab. Internet of Things (IoT) 8 6 PE II ET2383 PE II: Coptical Communication 9 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. 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 ET2393 OE III: Fundamentals of Ima					DE II. Antenna Theory & Design										
3	0.00	450		ET2378	PE II : Lab Antenna Theory & Design										
4			-												
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: Lab. TV & Video Engineering 12 6 PE II ET2388 PE II: Lab. TV & Video Engineering Open Electives -III Microcontroller & Embedded Systems 2 6 OE 3 ET2391 OE III: Microcontroller & Embedded Systems 2 6 OE 3 ET2393 OE III: Fundamentals of Image Processing Open Electives -IV 4 6 OE 4 ET2396 OE IV: Industrial Instrumentation 6 6 OE 4 ET2398 OE IV: Medical Electronics		170													
6	200	10,000													
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 <th>_</th> <th></th>	_														
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		2070													
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	-														
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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	1050	10,000				9									
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															
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		2000	The state of the s												
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	1	6	OE 3	ET2391	OE III: Microcontroller & Embedded Sy	stems									
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	2	6	OE 3												
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	3	6	OE 3				0.00								
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	Oper	Elect	ives -IV		CANAL TO THE PROPERTY OF THE PARTY OF THE PA										
6 6 OE 4 ET2398 OE IV : Medical Electronics 7 6 OE 4 ET2399 OE IV : Display Technology & Applications	4	6	OE 4	ET2396	OE IV : Soft computing										
7 6 OE 4 ET2399 OE IV : Display Technology & Applications	5	6	OE 4												
	6	6	OE 4		OE IV : Medical Electronics										
7 6 OF 4 FT2400 OF IV: PLCs & SCADA	7	6				tions									
C O OLT LIZTON OLIV. PLOS OCODA	7	6	OE 4	ET2400	OEIV: PLCs & 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

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

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



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B.E. SCHEME OF EXAMINATION 2018-19

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

Electronics & Telecommunication Engineering

SoE No. ET-201

SN	Sem	Туре	Sub. Code	I Subject I.7	T/P	Co	ontac	t Ho	urs	Credits	% V	Veighta	age	ESE Duration
		(IOMANE)	Code			L	T	Р	Hrs		MSEs*	TA**	ESE	Hours
				Seventh S	Semes	er								
1	7	PC	ET2401	RF & Microwave	Т	3	0	0	3	3	30	30	40	3 Hours
2	7	PC	ET2402	Lab: RF & Microwave	Р	0	0	2	2	1		60	40	
3	7	PC	ET2403	Digital Communication	т	3	0	0	3	3	30	30	40	3 Hours
4	7	PC	ET2405	Lab: Digital Communication	Р	0	0	2	2	1		60	40	
5	7	PE		Professional ⊟ective III	Т	3	0	0	3	3	30	30	40	3 Hours
6	7	PE		Professional Elective IV	Т	3	0	0	3	3	30	30	40	3 Hours
7	7	PE		Professional ⊟ective V	Т	3	0	0	3	3	30	30	40	3 Hours
8	7	PE		Professional Elective VI	Ť	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 Recrutment Training (CRT)	P	0	0	0	0	2		100		
				TOTAL SEVENT	H SEM	18	0	8	26	24				
Profe	essiona	al Electi	ves -III											
1	7	PE	ET2411	PE III : Power Electronics										
2	7	PE		PE III: Data Compression & Encryption	n									
3	7	PE		PE III: Analog VLSI										
4	7	PE	ET2414	PE III : Error Correcting Codes										
5	7	PE	ET2415	PE III: Wireless Mobile Communication	n Syste	ems								
Profe	ession	al Electi												
6	7	PE	ET2421	PE IV : Satellite Communication & RAI	DAR Er	ngine	ering							
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										
Profe	ession	al Electi												
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										

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

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

PE ET2442 PE VI: Digital Image Analysis for Remote Sensing

ET2445 PE VI : Computer Architecture and Organization

ET2443 PE VI : Microwave Integrated circuits

ET2444 PE VI : Communication Networks

ET2446 PE VI : PLCs & SCADA

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

15 7 PE ET2435 PE V: RF Circuit Design

7 PE ET2441 PE VI : CMOS VLSI Design

Professional Electives -VI

PE

PE

17

18

There Process .	An Ampanyo	June 2020	1.02	Applicable for
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SoE No. ET-201

Electronics & Telecommunication Engineering

SN	Sem	Туре	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration
		Water	Code	· ·		L	Т	Р	Hrs		MSEs*	TA**	ESE	Hours
		is -10		Eigth S	emeste	ľ				98:			-	
2	8	STR	ET2451	Major Project	Р	0	0	12	12	9		60	40	
3	8	STR	ET2452	Extra curricular Activity Evaluation	Р	0	0	0	0	1		100		
		•		TOTAL EIGH	гн ѕем	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

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



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B.E. SCHEME OF EXAMINATION 2018-19

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Computer Technology

SoE No. CT-201

SN	Sem	Туре	Sub.	Subject	T/P	Co	ntac	t Hou	urs	Credits	% V	Veighta	age	ESE Duration
		78E	Code			L	Т	Р	Hrs		MSEs*	TA**	ESE	Hours
				TOTAL FIRST & SECONI	D SEIVI			_		47				
				Third Se	emeste	ŗ			,					
1	3	BS	GE2201	Engineering Mathematics III	Т	3	0	0	3	3	30	30	40	3 Hours
2	3	PC	CT2201	Computer Architecture & Organisation	Т	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	4 0	3 Hours
4	3	PC	CT2203	Lab: Object Oriented Programming	Р	0	0	2	2	1		60	40	
5	3	PC	CT2204	Data Structures	Т	4	0	0	4	4	30	30	40	3 Hours
6	3	PC	CT2205	Lab: Data Structures	Р	0	0	2	2	1		60	40	
7	3	PC	CT2206	Lab: Python Programming	Р	0	0	2	2	1		60	40	
8	3	PC	CT2207	Lab: Web Technology	Р	0	0	2	2	1		60	40	
				1	OTAL	14	0	8	22	18				
											e .			
				Fourth S	Semste	r								
1	4	BS	GE2206	Discrete Mathematics and Probability Theory	Т	3	0	0	3	3	30	30	40	3 Hours
2	4	PC	CT2251	Operating Systems	Т	3	0	0	3	3	30	30	40	3 Hours
3	4	PC	CT2252	Lab:Operating Systems	Р	0	0	2	2	1		60	40	
4	4	PC	CT2253	Advanced Data Structures	Т	4	0	0	4	4	30	30	40	3 Hours
5	4	PC	CT2254	Lab: Advanced Data Structures	Р	0	0	2	2	1		60	40	
6	4	PC	CT2255	Mathematical Foundations for Data Analysis	т	3	0	0	3	3	30	30	40	3 Hours
7	4	PC	CT2256	Lab: Mathematical Foundations for Data Analysis	Р	0	0	2	2	1		60	40	
8	4	PC	CT2257	Database Management Systems	Т	3	0	0	3	3	30	30	40	3 Hours
9	4	PC	CT2258	Lab: Database Management Systems	Р	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
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 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

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

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Nagar Yuwak Shikshan Sanstha's

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Computer Technology

SoE No. CT-201

SN	Sem	Туре	Sub. Code	Subject	T/P	Co	ontac	t Hou	ırs	Credits	% V	Veighta	age	ESE Duration
		200-	Code	H00 440		L	Т	Р	Hrs		MSEs*	TA**	ESE	Hours
				Fifth Se	meste	F								
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	Т	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 *	Т	3	0	0	3	3	30	30	40	3 Hours
9	5/6	STR	CT2310	IND VISIT and its report	Р	0	0	0	0	1		100		
				٦	TOTAL	19	0	4	23	22				
Drof	accion	al Electi	voc I											
Lamb 1	5	PE-I		PE I: Randomized Algorithm										
1	5	PE-I		PE I: Lab Randomized Algorithm										
2	5	PE-I	CT2313	PE I: Mobile Operating System PE I: Lab: Mobile Operating System										
3	5	PE-I	CT2315	PE I: Advanced Web Technologies PE I: Lab: Advanced Web Technologies	s									
4	5	PE-I	CT2317	PE I: Introduction to Geographical Infon PE I: Lab: Introduction to Geographical	mation			em						
-	5	PE-I		PE I: Computer Graphics										
5	5	PE-I		PE I: Lab: Computer Graphics										
6	5	PE-I	CT2321	PE I: Realtime Systems										
9	5	PE-I		PE I: Lab:Realtime Systems										
7	5	PE-I		PEI: Privacy and Security in Online So										
-	5	PE-I	CT2324	PEI: Lab: Privacy and Security in Onlin	e Socia	al Ne	twork	S						
Ope	n Elect													
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										
	n Elect													
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 Technologie	S									
9	9	OL II	012000	OL II. Callent freings and reclinologie	7									

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

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



Yeshwantrao Chavan College of Engineering

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B.E. SCHEME OF EXAMINATION 2018-19

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

Computer Technology

SoE No. CT-201

SN	Sem	Туре	Sub.	Subject	T/P	Co	Contact Hours			Contact Hours C		Contact Hours		Credits	% V	/eighta	ige	ESE Duration
		740.1	Code	. 		L	Т	Р	Hrs		MSEs*	TA**	ESE	Hours				
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	Т	3	0	0	3	3	30	30	40	3 Hours				
3	6	PC	CT2352	Lab: Design & Analysis of Algorithms	Р	0	0	2	2	1		60	40					
4	6	PC	CT2353	Language Processor	Т	3	0	0	3	3	30	30	40	3 Hours				
5	6	PC	CT2354	Lab: Language Processor	Р	0	0	2	2	1		60	40					
6	6	PC	CT2355	Software Engineering	Т	3	0	0	3	3	30	30	40	3 Hours				
7	6	PC	CT2356	Lab: Software Engineering	Р	0	0	2	2	1		60	40					
8	6	PE		Professional Elective-II	Т	3	0	0	3	3	30	30	40	3 Hours				
9	6	PE		Lab: Professional Elective-II	Р	0	0	2	2	1		60	40					
10	6	OE		Open Elective - III **	Т	3	0	0	3	3	30	30	4 0	3 Hours				
11	6	OE		Open ⊟ective - IV **	T	3	0	0	3	3	30	30	40	3 Hours				
					TOTAL	21	0	8	29	25								

Professional Electives -II

ä	6	PE-II	CT2361	PE II: Digital Image Processing
(1)	6	PE-II	CT2362	PE II: Lab: Digital Image Processing
2	6	PE-II	CT2363	PE II: Internet of Things
2	6	PE-II	CT2364	PE II: Lab: Internet of Things
3	6	PE-II	CT2365	PE II: Business Intelligence
J	6	PE-II	CT2366	PE II: Lab: Business Intelligence
4	6	PE-II	CT2367	PE II: Introduction to Natural Language Processing
1	6	PE-II	CT2368	PE II: Lab:Introduction to Natural Language Processing
5	6	100000		PE II: Customer Relationship Management
2	6	PE-II	CT2370	PE II: Lab: Customer Relationship Management

Open Electives -III

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

Open Electives -IV

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

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

anolopaken	And Angels	June 2020	1.02	Applicable for						
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	Seventh Semester									



Yeshwantrao Chavan College of Engineering

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B.E. SCHEME OF EXAMINATION 2018-19

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

Computer Technology

SoE No. CT-201

SN	Sem	Туре	Sub. Code	Subject	T/P	Contact Hours			Credits	% Weightage			ESE Duration	
		999551	Code	18203		L	Т	Р	Hrs		MSEs*	MSEs* TA** ESE	ESE	Hours
1	7	PC	CT2401	Artificial Intelligence	Т	3	0	0	3	3	30	30	40	3 Hours
2	7	PC	CT2402	Lab: Artificial Intelligence	Р	0	0	2	2	1		60	40	
3	7	PC	CT2403	Network Security	Т	3	0	0	3	3	30	30	40	3 Hours
4	7	PE		Professional Elective-III	Т	3	0	0	3	3	30	30	40	3 Hours
5	7	PE		Professional Elective-IV	Т	3	0	0	3	3	30	30	40	3 Hours
6	7	PE		Lab:Professional Elective-IV	Р	0	0	2	2	1		60	40	
7	7	PE		Professional Elective-V	Т	3	0	0	3	3	30	30	40	3 Hours
8	7	STR	CT2409	Mini Project	Р	0	0	4	4	2		100		
9	7	STR	CT2410	CRT	Р	0	0	0	0	2		100		
					TOTAL	15	0	8	23	21				

Professional Electives -III

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

Professional Electives -IV

FIOI	C221011	ai Electi	AC2 -IA	
1	7	PE-IV	CT2421	PE IV: Pattern Recognization
	7	PE-IV	CT2422	PE IV: Lab: Pattern Recognization
2	7	PE-IV	CT2423	PE IV: Cyber Forensic
	7	PE-IV	CT2424	PE IV: Lab: Cyber Forensic
3	7			PE IV: Machine Learning
	7	PE-IV	CT2426	PE IV: Lab: Machine Learning
4	7	PE-IV	CT2427	PE IV: Design Patterns
	7			PE IV: Lab: Design Patterns
5	7	PE-IV	CT2429	PE IV: Mobile Communication
1	7			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: Numerical Computing
	7	PE-IV	CT2434	PE IV: Lab: Numerical Computing

Professional Electives -V

1	1:0	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

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

3	Gudlopaken			And Market		Jur	ne 20	20		1.02		Applicat	le for
	Chairperson		on	Dean (Acad. Matters)	τ	Date of Release		Version	AY	AY 2020-21 Onwards			
				E	igth Semeste	er							
1	8	STR	CT2451	Major Project	Р	0	0	12	12	9	60	40	



Sem

8

Type

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B.E. SCHEME OF EXAMINATION 2018-19

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

Computer				2101	iwaiu	,				
Subject	T/P	Contact Hours			urs	Credits	% V	age	ESE Duration	
		L	Т	Р	Hrs		MSEs*	TA**	ESE	Hours
Extra Curricular Activity Evaluation	Р	0	0	0	0	1		100		

10

12 12

SoE No.

CT-201

GRAND TOTAL 85	0	48 133	163	

TOTAL

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

Sub.

Code

CT2452

anolopaken	may h	June 2020	1.02	Applicable for
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B.E. SCHEME OF EXAMINATION 2018-19

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

Information Technology

SoE No. IT-201

SN	Sem	Туре	Sub.	Subject	T/P	Co	intac	t Ho	urs	Credits	% V	/eighta	age	ESE Duration
	· · · · · · · · · · · · · · · · · · ·		Code			L	T	Р	Hrs		MSEs*	TA**	ESE	Hours
				TOTAL FIRST & SECOND	SEM					47				
				Third Se	meste	r								
1	3	BS	GE2201	Engineering Mathematics III	T	3	0	0	3	3	30	30	40	3
2	3	PC	IT2201	Digital Circuits & Microprocessors	Т	3	0	0	3	3	30	30	40	3
3	3	PC	IT2202	Digital Circuits & Microprocessors Lab	Р	0	0	2	2	1		60	40	4
4	3	PC	IT2203	Object Oriented Programming	Ŧ	3	0	0	3	3	30	30	40	3
5	3	PC	IT2204	Object Oriented Programming Lab	Р	0	0	2	2	1		60	40	
6	3	PC	IT2205	Data Structures and Program Design-	Т	4	0	0	4	4	30	30	40	3
7	3	PC	IT2206	Data Structures and Program Design-	Р	0	0	2	2	1		60	40	
8	3	PC	IT2207	Computer Architecture & Organization (Self-Learning-Online)	Т	3	0	0	3	3	30	30	40	3
9	3	PC	IT2208	Software Lab	Р	0	0	2	2	1		60	40	
				TOTAL THIRE	SEM	16	0	8	24	20				

				Fourth S	emste	г								
1	4	BS	GE2206	Discrete Mathematics and Probability Theory	Т	3	0	0	3	3	30	30	40	3
2	4	PC	IT2251	Data Structures and Program Design-	Т	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	0	60	40	
4	4	PC	IT2253	Computer Networks	Т	4	0	0	4	4	30	30	40	3
5	4	PC	IT2254	Computer Networks Lab	Р	0	0	2	2	1		60	40	
6	4	PC	IT2255	Operating Systems	т	3	0	0	3	3	30	30	40	3
7	4	PC	IT2256	Operating Systems Lab	Р	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				

Audi	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 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

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B.E. SCHEME OF EXAMINATION 2018-19

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

Information Technology

SoE No. IT-201

SN	Sem	Туре	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration
	9 10		Code			L	Т	P	Hrs		MSEs*	TA**	ESE	Hours
				Fifth Ser	neste									
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	Р	0	0	2	2	1		60	40	
4	5	PC	IT2303	Software Engineering (Self-Learning- Online)	τ	3	0	0	3	3	30	30	40	3
5	5	PE		Professional Elective - I	Ţ	3	0	0	3	3	30	30	40	3
6	5	PE		Lab : Professional Elective-l	Р	0	0	2	2	1		60	40	
7	5	OE		Open Elective-l	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	Р	0	0	0	0	1		100		
				TOTAL FIFTH	SEM	18	0	4	22	21				

Drat	 inna	 ectiv	

4	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
2	5	PE-1	IT2314	PE1: Lab.: Data Analysis and Statistics
3	5	PE-1	IT2315	PE I: Customer Relationship Management
3	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 Legarning
2	5	OE-II	IT2332	OE II: Information Security

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

	Andrews	June 2020	1.02	Applicable for	
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B.E. SCHEME OF EXAMINATION 2018-19

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Information Technology

SoE No. IT-201

SN	Sem	Туре	Sub.	Subject		Co	ontac	t Ho	urs	Credits	% V	age	ESE Duration	
			Code			L	Т	Р	Hrs		MSEs*	TA**	ESE	Hours
				Sixth S	emeste	r								
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	Т	3	0	0	3	3	30	30	40	3
3	6	PC	IT2352	Lab: Design & Analysis of Algorithms	Р	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	Р	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	Р	0	0	2	2	1		60	40	
9	6	OE		Open Elective-III	Т	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 SIXT	H SEM	18	0	6	24	21				
List	of Prof	essiona	al Electives	ş- &										
Prof	ession	al Elect	ives -II											
	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										

PE-2

IT2366

IT2365 PE II: Internet of Things

PE II: Lab.: Internet of Things

- po	11 -100	11100 111		
1	6	OE-III	IT2371	OE-III: Industry 4.0
2	6	OE-III	IT2372	OE-III: Core JAVA

Open Electives -IV

-pu		Otte	00 11		
1	6	C	DE-IV	IT2381	OE-IV: Introduction to Machine Learning
2	6	(DE-IV	IT2382	OE-IV: Information Security

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

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



Yeshwantrao Chavan College of Engineering

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B.E. SCHEME OF EXAMINATION 2018-19

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

Information Technology

				intormation rec		97								
sN	Sem	Туре	Sub. Code	Subject	T/P	Co	ntac	t Ho	urs	Credits	% V	Veighta	age	ESE Duration
			Code	and the state of t		L	T	Р	Hrs		MSEs*	TA**	ESE	Hours

				Seventh S	Semester									
1	7	PC	IT2401	Data Mining	т	3	0	0	3	3	30	30	40	3
2	7	PC	IT2402	Data Mining Lab	Р	0	0	2	2	1		60	40	
3	7	PC	IT2403	Principles of Artificial Intelligence	Т	3	0	0	3	3	30	30	40	3
4	7	PE		Professional Elective III	T	3	D	0	3	3	30	30	40	3
5	7	PE		Professional Elective IV	Т	3	0	0	3	3	30	30	40	3
6	7	PE)	Lab.: Professional Elective IV	Р	0	0	2	2	1		60	40	
7	7	PE		Professional Elective V	Т	3	٥	۵	3	3	30	30	40	3
8	7	PE		Professional Elective VI	Т	3	0	0	3	3	30	30	40	3
8	7	STR	IT2409	Mini Project	Р	0	0	4	4	2		60	40	
9	7	STR	IT2410	Campus Recrutment Training (CRT)	Р	0	D	0	0	2		100		
_			, i	TOTAL SEVE	NTH SEM	18	0	8	26	24				

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

rofe	ssion	al Elect	ives -III	
1	7	PE-3	IT 24 1 1	PE III: Cloud Computing
2	7	PE-3	IT 24 12	PE III Real Time Systems
3	7	PE-3	IT 24 13	PE III. Network Security
4	7	PE-3	IT 24 14	PE III: Information Retrieval
rofe	ssion	al Elect	ives -IV	
L	7	PE-4	IT 2421	PE IVI Neural Network and Fuzzy Logic
1	7	PE-4	IT 2422	PEIV: Lab: Neural Network and Fuzzy Logic
	7	PE-4	IT2423	PEIV Ethical Hacking and Cyber Forensics
2	7	PE-4	IT 2424	PETVLab Ethical Hacking and Cyber Forensics
	7	PE-4	IT 2425	PE IV: Human Computer Interaction
3	7	PE-4	IT 2426	PEIV Lab:Human Computer Interaction
	7	PE-4	IT 2427	PE IV: Parallel Computing
	7	PE-4	IT 2428	PEIV Lab: Parallel Computing
rofe	ssion	al Elect	ives - V	
1	7	PE-5	IT2431	PE V Digital Image Processing
2	7	PE-5	IT2432	PE V: Distributed Systems
3	7	PE-5	IT2433	PE V: Coding Standardand and Technical Documentation
rofe	ssion	al Elect	ives - 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
T	7	PE-6	IT 2444	PEIVI: Natural Language Processing

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

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

	Met -	June 2020	1.02	Applicable for AY 2021
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B.E. SCHEME OF EXAMINATION 2018-19

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sN	Sem	Туре	Sub.	Information T	T/P		ntac	t Ho	urs	Credits	% V	ESE Duration		
	0.0000000	SECTION S	Code	(大型 明知)	19700	L	Т	Р	Hrs	200000000000000000000000000000000000000	MSEs*	TA**	ESE	Hours
				Eighth Se	mester									
1	8	STR	IT2451	Major Project	Р	0	0	12	12	9		60	40	
2	8	STR	IT2452	Extra curricular Activity Evaluation	Р	0	D	0	0	-1		100		
				TOTAL EIGH	HTH SEM	0	0	12	12	10				
	_			GRAND TOTAL		86	0	44	130	162				

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

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

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

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Chairperson	Dean (Acad. Matters)	Date of Release	Version	22 Onwards







SoE No. IT-201



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

	0223			Cont	act	Hours		9	% Weight	age		ESE
SI. No.	Course Code	Course Title	L	T	Р	Total Contact Hrs.	Credits	MSE-I	MSE-II	TA	ESE	Duration Hrs.
			SEN	/IES	TER							
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		10	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					
		I	ISE	VIES	TER							
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
	Profession	al Elective-l										
-2	CV1914	Advanced Concrete Structures	٦ _		_	ų.		20	44	40	-00	ų.
4	CV1915	Prestressed Concrete	3	0	0	3	3	15	15	10	60	3
1	CV1916	Composite Structures	1									
ヿ	Profession	al Elective-II				*						
_	CV1917	Advanced Steel Structures	1			_						
5	CV1918	New Engineering Materials	3	0	0	3	3	15	15	10	60	3
8	CV1919	Smart Structures and Applications	1									
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	100000000000000000000000000000000000000	Seminar	0		2	2	1			100		
		Total	15	_	6	21	18					
		11	II SEI	MES	TER	(2)						
	Profession	al Elective-III										
890	CV1923	Tall Building	1	7220		_			702032			_
1	CV1924	Design of Environmental Strucutres	3	0	0	3	3	15	15	10	60	3
1	CV1925	Bridge Engineering	1									
一	Profession	al Elective-IV				V.						
	CV1926	Plastic Analysis and Design of Structures	1	-			-					
2	CV1927	Seismic Analysis and Design of Structures	3	0	0	3	3	15	15	10	60	3
7	CV1928	Design of Industrial Structures	1									
3	CV1929	Project Phase-I	0	0	16	16	8			100		
	North White Court and August 1	Total	6	0	16	22	14	S-		1-35,010,181		
		many state of	V SE	MES				J).				
1	CV1931	Project Phase- II	0	0	24	24	12			40	60	
		Total	0	0	24	24	12					
		Grand Total of Credits			, marta (K.)	177077	62					
hai	rperson	Meta At	Dat	e of	Rele	ease	May	2014		Appli	cable	for
2	n (Acad. Ma	The state of the s	V.	sion	20			1	A.V.	2011	45.0	wards



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

				Conta	ct H	ours		C	% Weight	age		A A LOSAN MACKET
SI. No.	Course Code	Course Title	L	Т	P	Total Conta ct Hrs.	Credits	MSE-I	MSE-II	TA	ESE	ESE Duration Hrs.
SE	MESTER	MANAGE TO THE STATE OF THE STAT	i i					li susse i	3			
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					
		•	SEME		_					l		
1	Constitution and the state of t	Industrial Waste Water Treatment and Disposal	3	0	0	3	3	15	15	10	60	3
2	t	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
5	CV1964	Municipal Solid Waste Management	3	0	0	3	3	15	15	10	60	3
	Professi	ional Elective- I										
6	CV1967	Hazardous Waste Management	3	0	0	3	3	15	15	10	60	3
0	CV1968	Water Resource Management	3	U	U	3	3	13	13	10	00	3
	CV1969	Advanced Water Treatment										
7	CV1966	Seminar II	0	0	2	2	1		2	100		
		Total	15	0	4	19	17					
_	Drofossi	ional Elective- II	SEME	STE	<u> </u>		1					
1		Environmental Modelling	3	0	0	3	3	15	15	10	60	3
	Towns and some second	Rural Water Supply and Sanitation	- I 3	U	U	٥	3	10	13	10	00	3
	CV1976	PE-II Remote Sensing And GIS In Water Resources And Environmental Engineering	_									ū.
	Professi	onal 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 SEME	O STEI	16	22	14					
1	CV1981	Project Phase - II	SEME 0	O	24	24	12			40	60	
25	O V 1001	Total	0	0	24	24	12			-10	UU	9
		Grand Total of Credits			T	- Ann. 1	60					
hai	irperson	Wite At	Date	of R	eleas	se	May 2	2015	2	Appli	cable	for
)eai	n (A cad.		Vers	ion			1.0	01	AY	2015-	16 On	wards



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

C.	0.000		С	on	tac	t Hours			% Weight	age		ESE
SI. No.	Course Code	Course Title	1	Т	Р	Total Contact	Credits	MSE- I	MSE- II	TA	ESE	Duration Hrs.
		I SE	L EME	S	ER	Hrs.						
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
	Professiona	I Elective- I		П	Г							
	ME1907	Project Engineering	1									
3	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	544000		40	60	117.5
			15	0	4	19	17				0.	0
		II SI	EME	ES.	TER		\$2.0000 10000	l.				
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
	Professiona	I Elective-II							15			
	ME1917	Product Data Management	1									
6	ME1918	Mechatronics	3	0	0	3	3	15	15	10	60	3
8	ME1919	Machine Tool Design										
	ME1920	Plant Design	1									
7	ME1916	Seminar	0	0	2	2	1		!	100		
			15	0	4	19	17					
		III S	EMI	ES	TEF	t						
1	ME1921	Product Design & Development	3	0	0	3	3	15	15	10	60	3
	Professiona	l Elective - III	ė i		П							7.2
	ME1923	Computational Fluid Dynamics										
2	ME1924	Design Optimization Techniques	3	0	0	3	3	15	15	10	60	3
	ME1925	Rapid Prototyping	1									
	ME1926	Design for Manufacturing and Assembly	1									
3	ME1922	Project Phase -I	0	0	16	16	8			100		
			6	0	16	22	14					
		IV S	ЕМ	ES	TEF	2	**	27				
1	ME1931	Project Phase-II	٥	0	24	24	12			40	60	
			0	0	24	24	12					
e G		Grand Total of Credits				0.11	60					
Chairp	erson	-Server and -	D	ate	of	Release	N	1ay 2014	1	Aı	plica	ıble for
	Acad. Matt.)	Appli			Ver	sion		1	13		AY 20	14-15
		Contract		- 0		90,000 RM (70)		ā:		812	Onw	ards



Yeshwantrao Chavan College of Engineering (An Autonomous Institution affiliated to Rashtbrasant Tukadoji Maharaj Nagpur University) M. Tech. SCHEME OF EXAMINATION 2014

Department of Mechanical Engineering Production Engineering

	Ď.			Conta	ct Ho	Jrs			% Weight	age		
SI. No.	Course Code	Course Title	ı	Ť	Р	Total Conta ct Hrs.	Credits	MSE- I	MSE- II	TA	ESE	ESE Duration Hrs.
			1.9	EME:	STER							
1	ME1951	Engineering Statistics & Design of Experiments	3	0	0	3	3	15	15	10	60	3
	Profession	al Elective-I									. 534	92
235	ME1957	Quality Control & Metrology	385	10211	530	- 88	235	53434	52865	1982	86583	
2	ME1958	Reliability Engineering	3	0	0	3	3	15	15	10	60	3
	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 - 1	0	0	2	2	1	ev s	60 10	40	60	10
6	ME1955	Computer Integrated Manufacturing	3	0	0	3	3	15	15	10	60	3
7	ME1956	Lab: Computer Integrated	0	0	2	2	1			40	60	
-,-		Manufacturing Total	15	0	4	19	17	8				-
		992	-0000		STER	S - 92 - 7	100	2				
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		1	40	- 97	
5	ME1965	Computer in Production	3	0	0	3	3	15	15	1000	60	3
93	Name of the second	Management	ં	::Us	u.	3	3	ાઇ	.10	10	.00	. 3
	DENAME SAVERAGE	al Elective-II										
6	ME1967	Maintenance Engineering	3	0	0	3	3	15	15	10	60	3
	ME1968	CNC and Robotics										
0.00	ME1969	Welding Technology	5		- 200	5	500	8		20.22		<u> </u>
7	ME1966	Seminar	0	0	2	2	_1_	-		100	- 89	25
		Total	15	0	4	19	17					
					STER							
1	ME1971	Productivity Management	3	.0	0:	3	3	15	15	10	60	3
		al Elective-III										
2	ME1973	Quantitative Techniques	3	0	o	3	3	15	15	10	60	3
98	ME1974	Plastics and Composites	800	0.8004	555	88	22	900	XX548	0.04500	Sorre	
	ME1975	Project Evaluation & Management	_		_							,
3	ME1972	Project Phase-I	0	0	16	16	8	8		100		
		Total	6	0	16	22	14	e e				
800	POSTICISTOS	E8988 (100) 89			STER	Prince of the	1 Jigst	F.C.		5.77	25.5300	0
1	ME1981	Project Phase-II	0	0	24	24	12			40	60	
		Total	0	.0	24	24	12	0				
		Grand Total of Credits				-	60					
Chair	person	- Lander		Date	e of R	elease	1	May 201	4	Þ	φplic:	able for
) ean	(Acad, Matt) depth	3	9	Versi	on		1.00		AY2	014-1	5 Onward



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

MSE - II 15 15 15 15 15 15		107.5%	3 3 3 3 3 3
15 15 15 15 15	10 10 10 10 10 10	60 60 60 60 60 60	Duration Hrs.
15 15 15 15 15	10 10 10 10 10 10	60 60 60 60 60 60	3 3 3 3 3 3
15 15 15 15	10 10 10 10 40	60 60 60 60 60	3 3 3 3
15 15 15 15	10 10 10 10 40	60 60 60 60 60	3 3 3
15 15 15 15	10 10 10 10 40	60 60 60 60 60	3 3 3
15 15 15	10 10 10 40	60 60 60 60	3
15 15	10 10 40	60 60 60	3
15	10 40	60 60	
	40	60	3
15		107.5%	
15		60	*
15		00	
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15	10	60	3
	40	60	
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	1000		
	15 15 15	15 10 40 100 15 10 100 100 100 100 100 100 100	40 60 15 10 60 40 60 100 15 10 60



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**

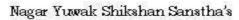
SI.	Course			Cor	ıtact	Hours		9	% Weigh	tage		ESE
No.	Code	Course Title	L	т	Р	Total Contact Hrs.	Credits	MSE-I	MSE-II	TA	ESE	Duration Hrs.
			ISE	MES	TER				*			ķ.
1		Advanced Digital Signal Processing	3	0	0	3	3	15	15	10	60	3
2		Digital IC Design	3	0	0	3	3	15	15	10	60	3
3		RISC & DSP Processor Architecture	3	0	0	3	3	15	15	10	60	3
<u>4</u> 5		Advanced Digital System Design Advanced Communication Systems	3	0	0	3	3	15 15	15 15	10	60 60	3
6	EE1905		0	0	2	2	1	10	10	40		<u>S</u>
7		Lab: Advanced Digital Signal Processing		33.5%	.55. 277						3.5	
8	EE1907 EE1908	Lab: Digital IC Design Lab: Advanced Digital System Design	0	0	2	2	1	,		40 40		•
0	EE 1900	Total	15	0	6	21	18			40	00	
		Total	- 177 97 97 V.	9777.6	TER	WARTER	10					
1	EE1911	RF Circuit Design	3	0	0	3	3	15	15	10	60	3
2		Soft Computing Techniques	3	0	0	3	3	15	15	10	60	3
3		Digital Image Processing	3	0	0	3	3	15	15	10	60	3
		nal Elective- I										
4	EE1916	Analog IC Design	3	0	0	3	3	15	15	10	60	3
-	EE1917	Multirate signal Processing	٦	0	0	3	3	10	10	10	00	3
		Low Power CMOS VLSI Design										
	C. The Contractor	nal Elective- II										
5		Wireless Communication	3	0	0	3	3	15	15	10	60	3
(A)		VLSI Signal Processing		(87)	153	- A	0.55W	10001	8,37,3	0.73		1.575.0
-		Verification & testing of VLSI Circuit										
6		Lab : Digital Image Processing	0	0	2	2	1			40		
7		Lab: RF Circuit Design	0	0	2	2	1			40	17 CV ACC.	
8	EE1922	Seminar	0	0	2	2	1			100		
		Total	15	0	6	21	18					
			III SI	EME	STEF							
		nal Elective- III	4									
		Wireless Sensor		271.21	2112	100	277.00		No. in Control		270.11VA	49030
1	EE1933	Biomedical Instrumentation	3	0	0	3	3	15	15	10	60	3
	EE1934	Mixed signal VLSI Design	1									
	EE1935	Cryptography & Network Security	1									
		nal Elective- IV										
	EE1936	Adaptive Signal Processing	1									
2		Embedded System & RTOS	3	0	0	3	3	15	15	10	60	3
	EE1938	Advanced Computer Architecture										
	EE1939	Pattern recognition										
3	EE1931	Project Phase - I	0	0	16	16	8			100		
		Total	6	0	16	22	14					
3	-510; MANAGE X400	NA. SAN INSERT	IV SI			1V 2V	5058)(5780	Freezen	
1	EE1941	Project Phase - II	0	0	24	24	12			40	60	
		Total	0	0	24	24	12					
		Grand Total of Credits					62					
Chair	person	(multimuren)	Date	e of I	Relea	se	May 2	2014		Appli	cable	for
Dean	(Acad. Ma	H.)	Vers	sion			1		AY	2014	-15 Or	wards



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

06360				Cor	tact	Hours		9/	6 Weighta	ige		ESE
SI. No.	Course	Course Title		_	Р	Total	Cradita	MCE	MSE - II	TA	FSF	Duration
NO.	Code		L	Т		Hrs.	Credits	MOE - I	MOE - II	IA	ESE	Hrs.
			SEN	/IES	TER	піз.						
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		
8	EE1958	Lab: Advanced Digital System Design	0	0	2	2	1			40	60	
•	LLICCO	East Maranea Digital Cyclem Beelgh	15	0	6	21	18			- 10		
		Ĩ	SEI		1000	The same		3				
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	Sythesis & Optimisation of VLSI Circuits	3	0	0	3	3	15	15	10	60	3
	Professio	nal Elective - I	T		Г							
4		Low Power CMOS VLSI Design	3	0	0	3	3	15	15	10	60	3
		Hardware Software Codesign	ا آ					10	10	10		9.1
	- HOLDER CONTROL CO.	Nano Scale MOS Transistors	4									
	peratu idealanteid terkerek	nal Elective - II										
5		Verification & Testing of VLSI Circuit	3	0	0	3	3	15	15	10	60	3
		Digital Image Processing	_				72.5752					
		Solid State Devices & Modelling	+	_	_	0				40	60	
6 7		Lab: RF Circuit design	0	0	2	2	1			40	200000000	
8		Lab: Analog IC Design Seminar	0	0	2	2	1			100		
<u> </u>	LL 1072	Cerriinai	15	ō	6	21	18			100		
		JI	SE		_							
	Professio	nal Elective - III										
1	EE1982	Mixed Signal VLSI Design	3	0	0	3	3	15	15	10	60	3
4	The same of the sa	Micro Electro Mechanical Systems] ~			3	3	10	10	10	00	9
		VLSI for wireless communication			oxdot							
	Residence of the second second	nal Elective - IV	_									
2		ASIC Design	3	0	0	3	3	15	1 5	10	60	3
		Semiconductor Memory Design	_						1000000	-50550	110494000	37.74
		Advanced Computer Architecture			10	10				100		
3	EE1981	Project Phase - I	0	0	16	16	8			100		
		n	6 / SE	MES	16 TEE	22	14	l				
1	EE1991	Project Phase - II	Το		24	24	12			40	60	l
			0		24	24	12					
		Grand Total of Credits					62					
hair	person	(multurens)	Dat	e o	F Rel	ease	Mav	2014	Δ	ppli	cable	for
riidii	PC13011	Januar.	Jan	0		-456	Way		^	P P III	JUDIC	
)ean	(Acad. Ma	tt.) & & & & & & & & & & & & & & & & & & &	Ver	sio	n		1	1	AY 2	014-	15 On	wards



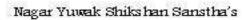


Yeshwantrao Chavan College of Engineering (An Autonomous Institution affiliated to Rashtras ant Tukadoji Maharaj Nagpur University)

M. Tech. SCHEME OF EXAMINATION 2014

Department of Electronics & Telecommunication Engineering Communication Engineering

SI.	Course			Co	nta	t Hours Total			% Weigh	tage		ESE
a. No.	Code	Course Title	L	T	Р	Contact	Credit	MSE-	MSE-	TA	ESE	Duratio
						Нгв.	S	W:				Нга.
			EME	ST	ER	E .			E.	10	2	
1	ET1951	Mathematical Foundations for Communication Engineering	3	0	0	3	3	15	15	10	60	3
2	ET1952	Passive R.F. Circuits & Systems	3	0	0	3	3	15	15	10	60	3
3	ET1953		0	0	2	2	1	5000		40	60	70.6
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	A CONTRACTOR OF THE PARTY OF THE	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	
	Profession	onal Elective- I						-	88	8		
3	ET1958	Error Control Coding	1			_	- 20	202	26		20	
8	ET1959	Embedded Systems & DSP Processor	3	0	0	3	3	15	15	10	60	3
100	ET1960	Pattern Recognition	3	L								
		Total	15	0	6	21	18	-		-	- in	
		IIS	4		ER							
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		Digital1mage processing	3	0	0	3	3	15	15	10	60	3
5	ET1965		0	0	2	2	1			40	60	
6	ET1966	Wireless Communications & Networks	3	0	0	3	3	15	15	10	60	3
2	Profession	onal Elective -II	***			31 3	100.00	31.50%	3	120	0.775	6.63
9	ET1967	Selected Topics in Communication Systems	9	L								
7	ET1968	Speech Processing	3	o	0	3	3	15	15	10	60	3
	ET1969	Detection & Estimation Theory	3 5				13704	111.000				
9		Real Time Operating System		L								
8	ET1978	Seminar	0	0	2	2	1			100	2	
		Total	15	0	6	21	18				***	
		III S	ĒΜ	ES.	ΓER							
200	Professio	onal Elective- III	88.	275	7.19		2.0		-	275 - 575	7,5 5,5	
1	ET1970	Multimedia Communications	1,	L		3	3	15	15	10	20	3
1	ET1971	Active RF Devices and Circuits	3	Ų	0	3	3	15	15	10	60	3
3	ET1972	Soft Computing	-	L								
9	Profession	onal Elective-IV										
2	ET1974	High Speed Networks	3	L	0	3	3	15	15	10	60	3
2	ET1975	Wireless Sensor Networks]]	ľ	U	,J	- 3	10	10	10	.00	3:
	ET1979	Micro Electro Mechanical Systems			L id		5.4			10 p. 10	Fid 5/4	
3	ET1976	Project Phæe-I	0	0	16	16	8			100		
		Total	6	0	16	22	14					
		.l∨s	EM	ES	TER							
1	ET1977	Project Phase-II	0	0	24	24	12			40	60	
		Total	0	0	24	24	12			225	152 335	
		Grand Total of Credits					62					
hair	person	- Dogle		Dat	e of	Release	May	2014		Appl	licable	for



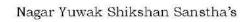


Yeshwantrao Chavan College of Engineering (An Autonomous Institution affiliated to Ras Harasant Tukadoji Maharaj Nagpur University)

M. Tech. SCHEME OF EXAMINATION 2014

Department of Computer Technology Computer Science & Engineering

42400	200000000000000000000000000000000000000			Con	ntac	t Hours			% Weig	ghtage		ESE
SI. No.	Course Code	Course Title	L	T	Р	Total Contact	Credits	MSE-	MSE-	TA	ESE	Duration Hrs.
35			1 00	NAC.	ST	Hrs.	- 3	- 101 - 101	8 8	38	ei -	130.00
-		High Performance Computer	T		-S1	ER:		_	т -			
1	CSE1901	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		Lab: Network Security & Cryptography	0	_	2	2	1	790		40	60	2
5		Algorithm Design Techniques	3		0	3	3	15	15	10	80	3
6		Lab: Algorithm Design Techniques	0	_	2	2	1	13	13	40	60	2
O			0	۳	4	- 4	- 25 0	12	2 0	40		- Z
		al Elective-I	1	ı	ı			l				
		Advanced Digital Image Processing	1.	2:	23	02274	- 20	892	990	12021		20
7		Ethical Hacking	3	0	0	3	3	15	15	10	60	3
		Machine Learning	1	ı	ı			l				
	CSE1910	Grid and Cloud Computing	1.		66	9 /8	13	-83	es es		45	10
		Total	15	0	4	19	17					
3	5				EST		3 6	-	22 7			(D)
1		Data Mining		0		3	3	15	15	10	60	3
2		Distributed Systems	3	_	0	3	3	15	15	10	60	3
3		Optimizing Compilers	3	_	0	3	3	15	15	10	60	3
4	CSE1914	Lab: Optimizing Compilers	0	0	2	2	1	19	22 10	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
- 5	Profession	al Elective-II	86	П	Г							
	CSE1918	Soft Computing Techniques	1	ı	ı			l				
8		Data Warehousing]3	0	0	3	3	15	15	10	60	3
		Wireless Sensor Network	2	ı	ı			l				
	CSE1921	Information Retrieval Systems		_	2	8 8	- 2	3.5	s 5		S.	1-1
		Total			6	21	18	55				
			II S	ΕM	EST	ER						
	Profession	al Elective- III	1	ı	ı			l				
	The same of the sa	Computer Vision								22000		
1	CSE1924	Natural Language Processing	3	0	0	3	3	15	15	10	60	3
	CSE1925	The state of the s	1	ı	ı			l				
- 3	CSE1926	Charles and the second	_	_		2 2	- 3	55	2 8	- 3	3	
	Profession	al Elective-IV				(E) /E						
	CSE1927	Cyber Forensics	1	L.		0.5478		10000	20000	02000		
2		Pattern Recognition]3	0	0	3	3	15	15	10	60	3
	CSE1929	THE STATE OF THE S	1	ı	ı			l				
	THE RESERVE OF THE PERSON NAMED IN	Semantic Web and Social Networks							8 4		-	\$
3	CSE1922	Project Phase – I	0	_	16		8	2		100	á.	3
		Total					14					
		and the state of t	_	_	_	ER	o 43	154				
1	CSE1931	Project Phase - II	0	_	_		12			40	60	
		WWW. 1999 - 1994	0	0	24	24	12					
-		Grand Total of credits		215		100	61					
2015		-A1		350	138		755 X	0600000	ř	£21 £35	\$15A.62	
hair	person	Doving	E	ate	of	Release	May 2	2014		Appli	cablef	ОГ
lean	(Acad. Matt	ti) Assald	L	32	Vers	sion	1.0	00	A	Y 2014-	15 Onv	vards





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

- 200	2			Con	tact	Hours			% Weig	htage		ESE
SI. No.	Course Code	Course Title	L	Т	Р	Total Contact	Credits	MSE - I	MSE - II	TA	ESE	Duratio n Hrs.
				I SEI	/IES	Hrs. TER						
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	-3032		40	60	9545
3		Advances in Algorithms	3	0	0	3	3	15	15	10	60	3
4		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	3
7	C-10 C-10 C-10 C-10 C-10 C-10 C-10 C-10	Advanced Computer Architecture	3	0	0	3	3	15	15	10	60	3
	Professio	nal Elective-I										8
	IT1908	Geographical Information Systems										
8	IT1909	Artificial Intelligence	3	0	0	3	3	15	15	10	60	3
0	IT1910	Internet Technology	1 ~	0	0	3		10	13	10	00	3
	IT1911	High Performance Computer Networks	1									
	11 1011		2002	- 720		1474						
		Total	15	0 I SE	6	21	18	-				-
	IT1912	Parallal Computing	3	0	VIES 0	3	3	15	15	10	60	3
2		Parallel Computing Lab: Parallel Computing	0	0	2	2	1	10	15	40	60	ა
3		Object Oriented Systems	3	0	0	3	3	15	15	10	60	3
4	20	Lab: Object Oriented Systems	0	0	2	2	1	10	15	40	60	3
5		Business Intelligence & Analytics	3	0	0	3	3	15	15	10	60	3
6	AND DESCRIPTION	Lab:Business Intelligence & Analytics	0	0	2	2	1	10	15	40	60	S
7		Computer System Secutity	3	0	0	3	3	15	15	10	60	3
-		onal Elective-II	ં	U	U	ં	ં	10	10	10	00	S
	The season with many sources.	Section 1 - Control of the Control o	4									
8		Advanced Digital Image Processing	3	0	0	3	3	15	15	10	60	3
0		Advanced Compiler Design	3	U	U	ં	, s	15	10	10	00	3
		Bioinformatics Mobile Communication Systems										
9			0	0	2	2	1		112	100	,	
9	11 1923	Seminar Total	15	0	8	23	19			100		L
		Total	5771755	55.55	11/24	TER	15					
	Professio	nal Elective-III	1	JL	IVILO	ILIX	ľ			7		I I
		Distributed Systems	ł									
7.8002		Operation Research Techniques	0000	4000	00000	2 67Hz	come	50502	Anno	NAME OF THE PARTY		1000
1	Committee of the Contract of t	Pattern Recognition	3	0	0	3	3	15	15	10	60	3
		Wireless Sensor Networks	es.									
		Software Architecture	1									
	Professio	nal Elective-IV										
	IT1929	Cloud Computing	1									
	IT1930	Computer Vision	1									
2	IT1931	Cyber Forensics	3	0	0	3	3	15	15	10	60	3
	IT1932	Internet Routing Design										
		Embedded Systems Design	ĺ									
	IT1934	Management Information Systems										
3	IT1935	Project Phase- I	0	0	16	16	8		•	100		
	1	Total	6	0	16	22	14				V0	
			P	V SE		TER						-
1	IT1936	Project Phase - II	0	0	24	24	12	eri er		40	60	- N
		Total	0	0	24	24	12					
		Grand Total Of Credits	-	•			63					12
Chaire	erson	35		Date	of R	elease	Mav	2014	63.	Applic	able for	
i voluence de		twi			/ersi		5.000000-000	00	AY	20-13 - 13- 2 -13-2-13-2-13-2-13-2-13-2-13-2-13-2-13	5 Onwar	ds
	ean (Acad. Matt.)				vittes stated	(S)(E)(E)	L	1936(1 77 6)				355









Yeshwantrao Chavan College of Engineering (%) Antonomous Institution affiliated to Rashtasant Tukadoji Maharaj Nagour University) M. Tech. SCHEME OF EXAMINATION 2018-19

Structural Engineering

S N	· Pro-	Sub Code	Subject	T/P	Ē	Contac	t Hour	1	Credit		% Wig	htage	8	ES E
a M	Sem	Sub Code	aubject	Irr	LS,	Т	Р	Hrs	,	MSE4	MSE-II	TA	ES E	Duration Hours
		100	_	ISE	MESTE	R						- 0		-
1	. 10	CV2901	Numerical Methods	T	3	0	0	3	3	15	15	10	60	3
2	3	CV 2902	Theory of Elasticity and Elastic Stability	T	3	0	0	3	3	15	15	10	60	3
3	1	CV2903	Structura I Dynamics	T	3	٥	0	3	3	15	15	10	60	3
4	1	CV2904	Lab: Structural Dynamics	P	0	0	2	2	199		25 E	40	60	355
5	- 1	CV2905	Matrix Analysis of Structures	Т	3	0	0	3	3	15	15	10	60	3
6	1	CV2906	Lab: Matrix Analysis of Structures	P	0	0	2	2	1	375	1 7:10 7:10	40	60	2270
7	1	CV 2907	Design of Substructures & Foundations	T	3	0	0	3	3	15	15	10	60	3
8	. 1	CV/2908	Research Practice	P	0	0	2	2	1	33	200	40	60	923
			Total		15	0	6	21	18					

HSEMESTER

1	2	CV2911	Firite Element Method	T	3	0	0	3	3	15	15	10	60	.3
- 0	2	CV2912	Lab: Fir ite Element Method	P	٥	0	2	2	1	35	73	40	60	335177
2	2	CV 29 13	Theory of Plates and Shells	Т	3	0	0	3	3	15	15	10	60	3
3	2	CV2914	Earthquake and wind effects on Structures	Т	3	0	0	3	3	15	15	10	60	3
4	2	CV2915	Aduance d'Concre le Structures	Т	3	0	0	3	3	15	15	10	60	3
5	2	85	Piofessional Elective 4	T	3	0	0	3	3	15	15	10	60	3
6	2	CV2919	Lab: RCC Design Studio	P	Ø	0	2	2		33	a 20	40	60	923
7	2	CV2920	Seminar		0	0	2	2		19) <u>\$</u>	100		9249
			Total		15	0	6	21	18					

List of Professional Bectives-I

L	2	CV2916	P.E.I. New Engineering Materials
	2	CV 29 17	P.E.I. Prestlessed Concrete
	2	CV2918	P.E.I. Smart Strictures and Applications

HISEMESTER

1	3	CV2931	Aduanced Steel Structures	T.	3	0	0	3	3	15	15	10	60	1
2	3	CV2932	Lab: Steel Design Studio	P	0	0	2	2	31	18	88	40	60	1996
3	3		Professional Elective -II	T	3	0	0	3	3	15	15	10	60	3
4	3		Piofessional Elective-III	T	3	0	0	3	3	15	15	10	- 60	3
5	3	CV2939	Project Phase-I	P	٥	0	12	12	6	25	- 2 21	100		3550
			Total	33.3	9	0	14	23	16					

List of Professional Bectives-II

I	3	CV2939	P.E. II: Tall Building
I	3	CV2934	P.E.II: Composite Structures
1	3	CV2935	PEII: Bridge Enginee ring

List of Professional Bectives-III

3	O/2936	P.E.III: Plastic Analysis and Design of Structures
100		P.E.III: Seismic Analysis and Design of Strictures
3	C/2938	P E III: Design of Industrial Structures

N SEMESTER

1	4	CV 29 40	Project Phase-II		0	0	20	20	10	40 60
			Total		0	0	20	20	10	
			Total Credit	4					62	

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

Wag ar Yuwak Shikshan Sansha's Yeshwantirao Chavan College of Engineering (An Aulonomous Institution affiliated to Rashirasani Tukadoji Maharaj Magpur ti niuersi k) M. Tech. SCHEME OF EXAMINATION 2018-19

		Sub	2.0.7	7.10	O	ntac	tHo	UL8	~		%intelg	h tage	9	ESE
24	Sem	Code	Subject	T/P	L	T	P	Hre	Credite	MSE-I	MSEII	TA	ESE	Durai) Hour
			1 SEM 1	STER										
1	4	GE2901	Statistical and Computational Methods	T	3	0	0	3	3	15	15	10	60	3
2	1	CV2961	Emulronmental Chemisity and Microbiology	Т	3			3	3	15	15	10	60	3
3	1	CV2962	Lab Enuironmental Chemisity and Microbiology	P	0	0	2	2	31	Ü		40	60	
ı	-1	CV2963		Т	3		0	3	3	15	15	10	60	3
5	1	CV2964	ran odaer suppy arb odase odaer colector System	P			2	2	1			40	60	
6	1	CV2965	Municipal Waler Trealment	Т	3		П	3	3	15	15	10	60	3
7	1	CV2966	Wunicipal Was le Waler Trealment and Disposal	т	3		0	3	3	15	15	10	60	3
	at II		Total	159	15	0	4	19	17			35 8		
			II S EM	EST ER	33									
1	2	C V2971	Indus Itlal Was le Waler Trealment and Disposal	T	3	0	0	3	3	15	15	10	60	3
2	2	C \\ 2972	Enudonmental Management	Т	3	0	0	3	3	15	15	10	60	3
3	2	C \\2973	Air Poliulion and its Control	Т	3	0	0	3	3	15	15	10	60	3
	2	C \(2974	Municipal Solit (Masie Management)	Т	3	0	0	3	3	15	15	10	60	3
5	2		Professional Beclue-I	T	3	0	0	3	3	15	15	10	60	з.
6	2	C \(2978	Seminar	Р			2	2	1	-8		100		
			Total		15	0	2	17	16					
	w		Professional Elective el											
	2		P.E. I: Hazardous Massle Marragement											
	2	CV2976												
	2	CV2977	P.E. I: Adjuanced Waler Treatment											
	3		Professional Beclue-1	T	3	0	0	3	3	15	15	10	60	3
	3		Professional Becker II	T	3	0	0	3	3	15	15	10	60	3
	3	CV2989		P	0	0	14	14	8	-/-		100	-	-
	ar it		Total	V. F	6	0	14	20	14	- 00		(A) (3)	3 1	· 0
		Listof F	no te salonal Bective ell											4
	3	CV2981												
	3	CV2982	P.E. II: Bruironmen tal Biolechnology											
	3	CV2983	P.E. II: Application of Remote Sensing & GIS in Brutto	rment	d En	inee	ring							
		0.41.5	2012000220020000											
	-	100,000,000	70 % saional Bective elli											
	3	C172506	P.E. iit Energy Conversion and Brutronment											

3	CV2986	P.E. lit Energy Conversion and Bhulronment
3	CV2987	P.E. III: Environmental Op Imization and Micdeling
3	CV2988	PE III Waler Reuse and Recycling

100	91	EST	ED
10	LM.	Lai	ER.

1	4	CV299	O Projeci Phase-ii		P	0	0	20	20	20	Ĭ.	40	60	
			Total	17	-	0	0	20	20	20	- 1	 		
			To tal Credita							67				

CAN.	Me done	June 2018	1.00	Applicable for Sem 1 & 2 AY 2 0 18-19 & Sem
Chalrpereon	Dean (Acad. Mattere)	Date of Release	Version	3 & 4 AY 20 19-20 On wards

Yeshwantrao Chavan College of Engineering

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

M. Tech. SCHEME OF EXAMINATION 2018-19 CAD / CAM

SN	Sem	Sub	Subject	T/P	Contact			200	Credits	%Weightage				ESE Duration
	Coc	Code			L	Т	Р	Hrs		MSE-I	MSEII	TA	ESE	
			ISEM	ESTE	R	_	_							
1	4	ME2901	Stress Analysis	Τ	3	0	0	3	3	15	15	10	60	3
2	1	ME2902	Computer Integrated Manufacturing	Ŧ	3	0	0	3	3	15	15	10	60	3
3	1		Professional Elective-I	Т	3	0	0	3	3	15	15	10	60	3
4	1	ME2907	Computer Graphics and Solid Modeling	Т	3	0	0	3	3	15	15	10	60	3
5	1	ME2908	Lab: Computer Graphics and Solid Modeling	Р	0	0	2	2	1		8 3	40	60	
6	4	ME2909	CNC Technologies	Т	3	0	0	3	3	15	15	10	60	//3
7	1	ME2910	Lab: CNC Technologies	Р	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!: 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	Р	0	0	2	2	4	30 30		40	60	
5	2	ME2915	Artificial Intelligence	T	3	0	0	3	3	15	15	10	60	3
6	2		Professional Elective-II	1	3	0	0	3	3	15	15	10	60	3
7	2	ME2920	Seminar	Р	0	0	2	2	<u></u>	S 20		100		
- 200		(): ()	Total	- 0.	15	0	4	19	17			,		

List of Professional Electives-II

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

III SEMESTER

1	3	ME2931	Product Design & Development	Т	3	0	0	3	3	15	15	10	60	3
2	3	.v v	Professional Elective - III	Ţ	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	1				

List of Professional Electives-III

3	#E2932 P.E.III: Computational Fluid Dynamics	- 33
3	ME2933 PE III: Design Optimization Techniques	- 89
	ME2934 PE III: Rapid Prototyping	
3	ME2935 P.E.III: Design for Manufacturing and Assembly	-8

1	4	ME2940 Project Phase II	P 0 0 24 24	12	40 60
1		Total	0 0 24 24	12	
T.		Grand Total of Credit	s	60	

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



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	Sub Code Subject	T/P		Cont Hou			Credits	% Weightage				ESE Duration
	XESTONO.			1000	L	Т	Р	Hrs		MSE-I	MSE-II	TΑ	ESE	Hours
			IS	EMESTER										
1	1	EL2901	Advanced Power Electronics	Т	3	0	0	3	3	15	15	10	60	3
8	1	EL2902	Lab: Advance Power Electronics	Р	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	Р	0	0	4	4	2		8: 8	40	60	
3	1	EL2905	Digital Control System	Т	3	0	0	3	3	15	15	10	60	3
4	1	EL2906	HVDC Power Transmission	Т	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	Т	3	0	0	3	3	15	15	10	60	3
2	2	EL2912	Application of Power Electronics to Power System	Т	3	0	0	3	3	15	15	10	60	3
3.	2	EL2913	Power Quality	Т	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	Р	0	0	4	4	2			40	60	
			Total	8	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	က		Professional Elective - III	T	3	0	0	3	3	15	15	10	60	3
2	3		Professional Elective - IV	Т	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	Р	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	Distribtuted Automation
3	EL2936	Power Electronics for Renewable Energy Systems
3	EL2937	Control System Design

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

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





Yeshwantrao Chavan College of Engineering (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

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

SN		Sub	l Subject	T/D		Contact			Credits	% Weigh		ESE		
SN	Sem	Code		T/P	L	Т	Р	Hrs	Credits	MSE-I	MSE-II	TA	ESE	Duration
			ISEM	ESTER	1							or to the same		
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	Р	0	0	2	2	1		20 /2	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	Р	0	0	2	2	1		95 95	40	60	
3	1	EE2905	RISC & DSP Processor Architecture	Т	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	Р	0	0	2	2	1			40	60	
5	1	EE2908	Advanced Communication Systems	Т	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	Р	0	0	2	2	1		90. 9	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	IT	3	0	0	3	3	15	15	10	60	3
5	2	EE2915	Lab : Digital Image Processing	Р	0	0	2	2	1			40	60	
6	2	Professio	nal Elective- I	T	3	0	0	3	3	15	15	10	60	3
7	2	Professio	nal Elective- II	Т	3	0	0	3	3	15	15	10	60	3
8	2	EE2922	Seminar	P	0	0	2	2	1	1		100		
			Total		15	0	6	21	18	100				

List of Professional Electives-I

2	EE2916	PEI: 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	1 3 Professional Elective- III					0	0	3	3	15	15	10	60	3
2	3	Professio	nal Elective- IV	Т	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			3,100	-	

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

1	EE2940 Project Phase - II	P 0 0 24 24	12	40 60
	Total	0 0 24 24	12	WW 77
	Grand Total of Credits		62	

Mary	maget	June 2018	1.00	Applicable for Sem 1 & 2 AY 2018-19 &			
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Yeshwantrao Chavan College of Engineering
(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
M. Tech. SCHEME OF EXAMINATION 2018-19

Communication Engineering

SN	Sem	Sub	Subject	T/P	Contact				Credits		ESE			
211	Sem	Code	Subject	I/E	L	T	Ρ	Hrs	Credits	MSE-I	MSE-II	TA	ESE	Duration
			ISEN	ESTE	R						12			
1	1	ET2901	Mathematical Foundations for Communication Engineering	Т	3	0	0	3	3	15	15	10	60	3
2	1	ET2902	Passive RF Circuits & Systems	Т	3	0	0	3	3	15	15	10	60	3
3	1	ET2903	Lab: Passive RF Circuits & Systems	Р	0	0	2	2	1			40	60	
4	1	ET2904	Advanced Digital Communication	Т	3	0	0	3	3	15	15	10	60	3
5	1	ET2905	Lab: Advanced Digital Communication	Р	0	0	2	2	1			40	60	
6	1	ET2906	Adaptive Signal Processing	Т	3	0	0	3	3	15	15	10	60	3
7	1	ET2907	Lab: Adaptive Signal Processing	Р	0	0	2	2	1			40	60	
8	1		Professional Elective-I	Т	3	0	0	3	3	15	15	10	60	3
		,	Total		15	0	6	21	18					

List	List of Professional Electives-I										
1	ET2908 PE I: Error Control Coding										
1	ET2909 PE I: Embedded Systems & DSP Processor										
4	ET2910 IPE Pattern Recognition										

II SEMESTER

					**					147				
1	2	ET2911	Advanced Antenna Theory	T	3	0	0	3	3	15	15	10	60	3
2	2	ET2912	Lab: Advanced Antenna Theory	Р	0	0	2	2	1			40	60	
3	2	ET2913	VLSI Signal Processing	Т	3	0	0	3	3	15	15	10	60	3
4	2	ET2914	Digital Image processing	Т	3	0	0	3	3	15	15	10	60	3
5	2	ET2915	Lab: Digital Image processing	Р	0	0	2	2	1			40	60	
6	2	ET2916	Wireless Communications & Networks	Т	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	Р	0	0	2	2	1			100		
			Total	- "	15	0	6	21	18					

List	List of Professional Electives-II										
2	ET2917 PE II: Selected Topics in Communication Systems										
	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	Т	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	Р	0	0	16	16	8		100	100		
		•	Total	-	6	0	16	22	14					

List	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	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							

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

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

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		
~				1.00	L	T	Р	Hrs			MSE-II	TA	ESE	Hours
-		500	ÍSE	MEST	R									
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	Tτ	3	0	0	3	3	15	15	10	60	3
4	. 1		Lab: Network Security & Cryptography	P	0	0	2	2	1		- 200000	40	60	
5	1	CSE2905	Algorithm Design Techniques	Т	3	0.	0	3	3	15	15	10	60	3
6	1	CSE2906	Lab: Algorithm Design Techniques	P	0	0	2	2	1	W. Colonia		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	
	- 14		Total	7,000	15	0	6	21	19			///		

List of Professional Electives-I

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

II SEMESTER

350	-88		2 1000	3.25	326	30	39		28 8	-30000	8-25-			38
1	- 2	CSEZBIZ	Data Militing	100	3	o	O.	3	- 0	1000	10	10	00	3
Z	Z	USE2913	Ustributed Systems		3	U	b	3	3	15	୍ୟାସ	10	ω	3
3	2	C3E2914	Optimizing Compilers	1	3	o	Ō	3	- 3	10	i 10	10	00	- 3
4	Z	USE2915	Lab: Optimizing Compilers	E	U	U	Z	Z	10	- 700	(i)	. 40	00	
5	Z	USE2916	Sonware Architecture		3	U	U	3	3	15	ାର	10	ω l	3
7	ž	ESE2918	5स्तानिशिक्षिकारिशिक्षिक्षिति and Publishing)	B	Ħ	₿	ž	ž	- 1		8	108	œ	- 3
8	2		Professional Elective-II	J.	3	0	0	3	3	15	15	10	60	3
9	2	CSE2923	Software Lab 2	P	0	0	2	2	2	-28	33	40	60	
GIAS.	100	C 50 YE () \$0.000	Total	3,440	15	0	8	23	20			750	eres util	

List of Professional Electives-II

2	CSE2919	PEII: 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	3 (4 (4)	3	0	0	3	3	15	15	10	60	3
3	3	CSE2939 Project Phase – I	P	0	0	16	16	8	807/200	100	2000-00		21
		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 M: Pattern Recognition
3	CSE2937 PE M: Algorithms for Bioinformatics
3	CSE2938 PE M: Semantic Web and Social Networks

1 4	CSE2940 Project Phase - II	P 0 0 24 24	12	40 60
20000 30 3	Total	0 0 24 24	12	une constant exc
87		Grand Total of Credits	65	

经	An hapate	June 2018	1.00	Applicable for Sem 1 & 2 AY 2018-19 & Sem
Chairperson	Dean (Acad, Matters)	Uate of Ralasca	Version	3 & 4 AY 2019-20 Onwards









Nagar Yuwak Shikshan Sanstha's Yeshwantrao Chavan College of Engineering (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

SoE No. PG-301

M. Tech. SCHEME OF EXAMINATION 2020 Deptt. of Civil Engineering (Structural Engineering)

		Course				Con	tact	Hours		% Weightage			ESE
SI. Vo.	Sem	Course	Course Title	T/P	L	т	P	Total Contact Hrs.	Credits	MSEs*	TA**	ESE	Duration Hours
			ISE	/ESTE	R								
1	1	CV3901	Theory of Elasticity and Elastic Stability	Т	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	(57)
4	1	CV3904	Matrix Analysis of Structures	Т	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	1880
6	1	CV3906	Design of Substructures & Foundations	Т	3	0	0	3	3	30	30	40	3
7	1	CV3907	Earthquake and wind effects on Structures	Т	3	0	0	3	3	30	30	40	3
8	1	CV3908	Advanced Concrete Structures	Т	3	0	0	3	3	30	30	40	3
9	1	CV3909	Lab: RCC Design Studio	Р	0	0	2	2	1		60	40	393
			Total		18	0	6	24	21				9
			pomis		- T			E)					
			10,2,572	MESTE	200	_							
1	2	CV3915	Finite Element Method	Т	3	0	0	3	3	30	30	40	3
2	2	CV3916	Lab: Finite Element Method	P	0	0	2	2	1	7	60	40	7.9
3	2	CV3917	Theory of Plates and Shells	Т	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	Т	3	0	0	3	3	30	30	40	3
7	2		Professional Elective-II	T	3	0	0	3	3	30	30	40	3
			Desferational Florida III	T	3	0	0	3	3	30	30		•
8	2	a a	Professional Elective-III		3					30	30	40	3
8	2	-3	Total		18	0	4	22	20	30	30	40	3
		LIPIGER	Total			-	-			30	30	40	3
Prof	ession	al Elective	Total			-	-			30	30	40	3
rof		al Elective CV3920 CV3921	Total			-	-			30	30	40	3
Prof	ession	CV3920	Total - I PE I: New Engineering Materials			-	-			30	30	40	3
Prof 1 2 3	ession 2 2 2	CV3920 CV3921 CV3922	Total - I - I - PE I: New Engineering Materials - PE I: Prestressed Concrete - PE I: Smart Structures and Applications			-	-			30	30	40	3
rof 1 2 3	ession 2 2 2 2 ession	CV3920 CV3921 CV3922 al Elective	Total - I PE I: New Engineering Materials PE I: Prestressed Concrete PE I: Smart Structures and Applications - II			-	-			30	30	40	3
rof 1 2 3 rof	ession 2 2 2 ession 2	CV3920 CV3921 CV3922 al Elective CV3923	Total - I - I - PE I: New Engineering Materials - PE I: Prestressed Concrete - PE I: Smart Structures and Applications			-	-			30	30	40	3
rof 1 2 3	ession 2 2 2 2 ession	CV3920 CV3921 CV3922 al Elective	Total - I PE I: New Engineering Materials PE I: Prestressed Concrete PE I: Smart Structures and Applications - II PE II: RC Tall Buildings			-	-			30	30	40	3
Prof 1 2 3	ession 2 2 ession 2 2 ession 2 2	CV3920 CV3921 CV3922 al Elective CV3923 CV3924 CV3925	Total -1 PE I: New Engineering Materials PE I: Prestressed Concrete PE I: Smart Structures and Applications -II PE II: RC Tall Buildings PE II: Composite Structures PE II: RC Bridge Design			-	-			30	30	40	3
Prof 1 2 3 Prof 1 2 3	ession 2 2 2 ession 2 2 ession	CV3920 CV3921 CV3922 al Elective CV3923 CV3924 CV3925	Total - I PE I: New Engineering Materials PE I: Prestressed Concrete PE I: Smart Structures and Applications - II PE II: RC Tall Buildings PE II: RC Bridge Design - III			-	-			30	30	40	3
2 3 2 rof 1 2 3	ession 2 2 2 ession 2 2 2 ession 2 2	CV3920 CV3921 CV3922 al Elective CV3923 CV3924 CV3925 al Elective CV3926	Total I PE I: New Engineering Materials PE I: Prestressed Concrete PE I: Smart Structures and Applications II PE II: RC Tall Buildings PE II: Composite Structures PE II: RC Bridge Design III PE III: Plastic Analysis and Design of Structures	es		-	-			30	30	40	3
2 3 Prof 1 2 3	ession 2 2 2 2 ession 2 2 2 2 ession 2 2 2	CV3920 CV3921 CV3922 al Elective CV3923 CV3924 CV3925 al Elective CV3926 CV3927	Total I PE I: New Engineering Materials PE I: Prestressed Concrete PE I: Smart Structures and Applications II PE II: RC Tall Buildings PE II: Composite Structures PE II: RC Bridge Design III PE III: Plastic Analysis and Design of Structure PE III: Seismic Analysis and Design of Structure	es		-	-			30	30	40	3
2 3 Prof 1 2 3	ession 2 2 2 ession 2 2 2 ession 2 2	CV3920 CV3921 CV3922 al Elective CV3923 CV3924 CV3925 al Elective CV3926	Total PE I: New Engineering Materials PE I: Prestressed Concrete PE I: Smart Structures and Applications II PE II: RC Tall Buildings PE II: Composite Structures PE II: RC Bridge Design III PE III: Plastic Analysis and Design of Structure PE III: Seismic Analysis and Design of Structure PE III: Design of Industrial Structures	es ires	18	-	-			30	30	40	
2 3 2 3 2 3 2 3 2 3	ession 2 2 ession 2 2 2 ession 2 2 2	CV3920 CV3921 CV3922 al Elective CV3923 CV3924 CV3925 al Elective CV3926 CV3927 CV3928	Total PE II: New Engineering Materials PE II: Prestressed Concrete PE II: Smart Structures and Applications II PE III: RC Tall Buildings PE III: Composite Structures PE III: RC Bridge Design III PE III: Plastic Analysis and Design of Structure PE III: Seismic Analysis and Design of Structure PE III: Design of Industrial Structures	es ires	18 R	0	4	22	20				
2 3 2 3 2 3 2 3	ession 2 2 2 2 ession 2 2 2 2 ession 2 2 2	CV3920 CV3921 CV3922 al Elective CV3923 CV3924 CV3925 al Elective CV3926 CV3927 CV3928	Total I PE I: New Engineering Materials PE I: Prestressed Concrete PE I: Smart Structures and Applications II PE II: RC Tall Buildings PE II: Composite Structures PE II: RC Bridge Design III PE III: Plastic Analysis and Design of Structur PE III: Seismic Analysis and Design of Structur PE III: Design of Industrial Structures III SE	es ires	18 R 0	0	4	22	20	-	100	40	-
2 3 2 3 2 3 2 3 2 3	ession 2 2 ession 2 2 2 ession 2 2 2	CV3920 CV3921 CV3922 al Elective CV3923 CV3924 CV3925 al Elective CV3926 CV3927 CV3928	Total PE II: New Engineering Materials PE II: Prestressed Concrete PE II: Smart Structures and Applications II PE III: RC Tall Buildings PE III: Composite Structures PE III: RC Bridge Design III PE III: Plastic Analysis and Design of Structure PE III: Seismic Analysis and Design of Structure PE III: Design of Industrial Structures	es ires	18 R	0	4	22	20				
2 3 Prof 1 2 3 3	ession 2 2 2 2 2 2 2 2 2 3	CV3920 CV3921 CV3922 al Elective CV3923 CV3924 CV3925 al Elective CV3926 CV3928 CV3928	Total - I PE I: New Engineering Materials PE I: Prestressed Concrete PE I: Smart Structures and Applications - II PE II: RC Tall Buildings PE II: Composite Structures PE III: RC Bridge Design - III PE III: Plastic Analysis and Design of Structur PE III: Design of Industrial Structures III SE Project Phase-I Total	es Ires MESTE	18 R 0 0	0	16 16	22 16 16	20		100		
2 3 2 3 2 3 2 3 2 3	ession 2 2 ession 2 2 2 ession 2 2 2	CV3920 CV3921 CV3922 al Elective CV3923 CV3924 CV3925 al Elective CV3926 CV3928 CV3928	Total PE I: New Engineering Materials PE I: Prestressed Concrete PE I: Smart Structures and Applications II PE II: RC Tall Buildings PE II: Composite Structures PE II: RC Bridge Design III PE III: Plastic Analysis and Design of Structur PE III: Design of Industrial Structures III SE Project Phase-I Total	es ures MESTE P	18 R 0 0	0 0 0	4	22	20				

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

CAN.	de	Jan-20	1.00	Applicable for Sem 1 & 2 AY 2020-21
Chairperson	Dean (Acad. Matters)	Date of Release	Version	& Sem 3 & 4 AY 2021- 22 Onwards



Yeshwantrao Chavan College of Engineering

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

SoE No. PG-301

M. Tech. SCHEME OF EXAMINATION 2020 Deptt. of Civil Engineering

(Environmental Engineering)

SI.		Course	2-2-2-2-2-2		(Contact				% We	eighta	ge	ESE
No.	Sem	Code	Course Title	T/P	L	Т	Р	Contact	Credits	MSEs*	TA**	ESE	Duration
			ISEM	ESTE	R			II obraci	-				Homs
1	1 1	CV3961	Environmental Chemistry and Microbiology	Т	3	0	0	3	3	30	30	40	3
2	1	CV3962	Lab: Environmental Chemistry and	P	0	0	2	2	1	30	60	40	
3	1	CV3963	Microbiology Water Supply and Waste Water Collection	Т	3	0	0	3	3	30	30	40	3
		CV3964	System Lab: Water Supply and Waste Water	P	0	0	2	2	1		60	40	9
5	1	CV3964 CV3965	Collection System 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	Т	3	0	0	3	3	30	30	40	3
			Total	6	15	0	4	19	17				
			II SEM	ESTE	R								
1	2	CV3975	Industrial Waste Water Treatment and Reuse	Т	3	0	0	3	3	30	30	40	3
2	2	CV3976	Envrionmental 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	14	
			Total		18	0	2	20	19				
	ASSESSED TO LAKE A SELECTION	SCHOOL TANKS AND ROSE AND LOSE OF		<u> </u>									
	accion	al Elective											
_	2	CV3979	IPE I. Hazardous vvaste Management										
1	2	CV3979	PET: Water Resource Management										
1	2	CV3980	PE I: Water Resource Management										
1	2	The state of the s											
1 2 3 4	2 2 2	CV3980 CV3981 CV3982	PE I: Water Resource Management PE I: Environmental Biotechnology PE I: Advanced Water Treatment										
1 2 3 4	2 2 2 2	CV3980 CV3981 CV3982 aal Elective	PE I: Water Resource Management PE I: Environmental Biotechnology PE I: Advanced Water Treatment - II										
1 2 3 4 rot	2 2 2 2 ession 2	CV3980 CV3981 CV3982 ral Elective CV3983	PE I: Water Resource Management PE I: Environmental Biotechnology PE I: Advanced Water Treatment - II PE II: Energy Conversion and Environment										
1 2 3 4 rot 1 2	2 2 2 2 ession 2	CV3980 CV3981 CV3982 aal Elective CV3983 CV3984	PE I: Water Resource Management PE I: Environmental Biotechnology PE I: Advanced Water Treatment - II PE II: Energy Conversion and Environment PE II: Applied Structure										
1 2 3 4 rot 1	2 2 2 2 ession 2	CV3980 CV3981 CV3982 ral Elective CV3983	PE I: Water Resource Management PE I: Environmental Biotechnology PE I: Advanced Water Treatment - II PE II: Energy Conversion and Environment										
1 2 3 4 2 7 1 2 3	2 2 2 2 2 6ession 2 2	CV3980 CV3981 CV3982 ial Elective CV3983 CV3984 CV3985	PE I: Water Resource Management PE I: Environmental Biotechnology PE I: Advanced Water Treatment - II PE II: Energy Conversion and Environment PE II: Applied Structure PE II: Water Reuse and Recycling		_								
1 2 3 4 Prof 1 2	2 2 2 2 ession 2	CV3980 CV3981 CV3982 aal Elective CV3983 CV3984	PE I: Water Resource Management PE I: Environmental Biotechnology PE I: Advanced Water Treatment - II PE II: Energy Conversion and Environment PE II: Applied Structure PE II: Water Reuse and Recycling III SEM Project Phase - I	IESTE P	0	0	16	16	8		100		
1 2 3 4 2 1 2 3	2 2 2 2 2 6ession 2 2	CV3980 CV3981 CV3982 ial Elective CV3983 CV3984 CV3985	PE I: Water Resource Management PE I: Environmental Biotechnology PE I: Advanced Water Treatment - II PE II: Energy Conversion and Environment PE II: Applied Structure PE II: Water Reuse and Recycling		_	0 0	16 16	16 16	8 8	-	100	- 1	
1 2 3 4 Prof 1 2 3	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3	CV3980 CV3981 CV3982 al Elective CV3983 CV3984 CV3985	PE I: Water Resource Management PE I: Environmental Biotechnology PE I: Advanced Water Treatment - II PE II: Energy Conversion and Environment PE II: Applied Structure PE II: Water Reuse and Recycling III SEN Project Phase - I Total	P	0 0	0	16	16	8	7000			-
1 2 3 4 2 7 1 2 3	2 2 2 2 2 6ession 2 2	CV3980 CV3981 CV3982 ial Elective CV3983 CV3984 CV3985	PE I: Water Resource Management PE I: Environmental Biotechnology PE I: Advanced Water Treatment - II PE II: Energy Conversion and Environment PE II: Applied Structure PE II: Water Reuse and Recycling Project Phase - I	Р	0 0 R 0	0	16 24	16	12	n= 1	100	-	-
1 2 3 4 Prof 1 2 3	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3	CV3980 CV3981 CV3982 al Elective CV3983 CV3984 CV3985	PE I: Water Resource Management PE I: Environmental Biotechnology PE I: Advanced Water Treatment - II PE II: Energy Conversion and Environment PE II: Applied Structure PE II: Water Reuse and Recycling III SEN Project Phase - I Total	P	0 0	0	16	16	8	7000			Se s

Assessment

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

CAN.	May .	Jan-20	1.00	Applicable for Sem 1 & 2 AY 2020-21
Chairperson	Dean (Acad. Matters)	Date of Release	Version	& Sem 3 & 4 AY 2021- 22 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 2020 Deptt. of Electronics & Telecommunication

(Communication Engineering)

SoE No. PG-301

ا دی		000000000000000000000000000000000000000				Con	tact	Hours		% W	eighta	ge	ESE
SI. No.	Sem	Course	Course Title	T/P	L	т	P	Total Contact Hrs.	Credits	MSEs*	TA**	ESE	Duration Hours
			ISEM	ESTE	R	_		_					
1	1	ET3901	Mathematical Foundations for Communication Engineering	Т	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	Р	0	0	2	2	1		60	40	
4	1	ET3904	Advanced Digital Communication	Т	3	0	0	3	3	30	30	40	3
5	1	ET3905	Lab: Advanced Digital Communication	Р	0	0	2	2	1		60	40	
6	1	ET3906	Adaptive Signal Processing	Т	3	0	0	3	3	30	30	40	3
7	1	ET3907	Lab: Adaptive Signal Processing	P	0	0	2	2	1	8.5	60	40	
8	1	L10307	The control of the co	Т	3	0	0	3	3	30	30	Total Care	3
_	-		Professional Elective- I	_			-			7,000		40	200
9	1		Professional Elective- II	Т	3	0	0	3	3	30	30	40	3
			Total		18	0	6	24	21				
	Listo	f Profession	nal Electives-I										
	1	ET3908	PE I: Error Control Coding										
	1	ET3909	PE I: Embedded Systems & DSP Processor										
	1	ET3910	PE I: Pattern Recognition										
	Lieto	f Brofossion	nal Electives-II										
	1	ET3911	PE II: Multimedia Communications										
	1	ET3912	PE II: Active RF Devices and Circuits										
	1	ET3913	PE II: Soft Computing	u.s2100.00 s s									
-			II SEN	_	1			0		i			
1	2	ET3915	Advanced Antenna Theory	Т	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 5	2	ET3918 ET3919	Digital Image processing Lab: Digital Image processing	T	3	0	2	2	3	30	30 60	40	3
6	2	ET3920	Wireless Communications & Networks	Т	3	0	0	3	3	30	30	40	3
7	2	L10020	Professional Elective -III	T	3	0	0	3	3	30	30	40	3
8	2		Professional Elective -IV	+	3	0	0	3	3	30	30	40	3
9	2	ET3928	Seminar	Р	0	0	2	2	1	78.104.1	100		1,000.1
			Total		18	0	6	24	21				
	Listo	f Profession	nal Electives-III										
	2	All and the second second second	PE III: Selected Topics in Communication Sys	tems									
	2		PE III: Speech Processing										
	2		PE III: Detection & Estimation Theory PE III: Real Time Operating System										
		Market Market State	AND THE RESERVE AND THE RESERV										
	List o	Company of the Company of the Company	PE IV: High Speed Networks										
	2		PE IV: Wireless Sensor Networks										
	2	ET3927	PE IV: Micro Electro Mechanical Systems										
			III SEN	JESTE	ER.								
1	3	ET3939	Project Phase-I	Р	0	0	16	16	8	ĺ	100		
_		2.0000	Total	<u> </u>	0	0	16	16	8				
			**************************************					•					
1	4	ET3940	Project Phase-II	MESTE P	=R 0	0	24	24	12		60	40	
150	-	L13340	Total	8150	0	0	24	24	12		- 00	1 40	
			Total of Credits		***	V			62				
SS	essme * = for 1	nt Theory: 20 m	of 15 Marks each will conducted and marks of arks on lecture quizzes, 8 marks on assignments, 2						will be co	nsidered	for C	ontinu	ious
AWN	= for P	ractical: MSI	A will be 15 marks each					1		E			
3	fi-ve	Parasz.	Det		Jan	,20		1.0	00	Section Control of Section 2	2 AY		21 & Sem
	Chairperson		Dean (Acad. Matters)	Date	of F	Rele	ase	Vers	sion	& 4 AY 2021-22 Onward			nwards



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

Sem	Course	Course Title			Con	tact	Hours	- 4	% We	ESE		
1 1	Code	Course Title	T/P	L	т	P	Total Contact Hrs.	Credits	MSEs*	TA"	ESE	Duratio Hours
1 1	F1 2004		MEST	_				-				
0 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	- 20	60	40	-
3 1	EL3903	Analog & Digital Protection	T	3	0	0	3	3	30	30	40	3
4 1 5 1	EL3904 EL3905	Lab: Analog & Digital Protection	T	0	0	0	3	3	30	60 30	40	3
6 1	EL3905	Digital Control System	++	3	0	0	3	3	30	30	40	3
7 1	EL3907	HVDC Power Transmission Power System Modelling	T	3	0	0	3	3	30	30	40	3
8 1	ELSSUI		+	3	0	0	3	3	30	30	40	3
9 1		Professional Elective-I Lab: Professional Elective I	P	0	0	4	4	2	30	60	40	3
3 1		Total		18	0	12	30	24		- 50	40	
	Date of the				LY							
		ofessional Electives-I										
	EL3914	PE I: Electrical Drives and Controls										
	EL3915											
	EL3916											
	EL3917	PE I: Lab: Renewable Energy System										
				11								
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	Т	3	0	0	3	3	30	30	40	3
3 2	EL3913	Power Quality	Т	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	Ť	3	0	0	3	3	30	30	40	3
7 2	EL3921	Lab:Power System Simulation	Ĺ	0	0	4	4	2	00	60	40	9
8 2	EL3938		-	0	0	4	4	2		60	40	
0 2	EL3930	Lab.: Power System Design Total		18	0	8	26	22		00	40	
		Total		10	U		20	22				
	Professio											
	EL3918 EL3919 EL3920	PE II: Advanced Digital Signal Processing PE II: EHV Power Transmission										
	EL3918 EL3919 EL3920	PE II: Advanced Digital Signal Processing PE II: EHV Power Transmission										
	EL3918 EL3919 EL3920	PE II: Advanced Digital Signal Processing PE II: EHV Power Transmission PE II: Restructuring of Power System										
	EL3918 EL3919 EL3920 Professio	PE II: Advanced Digital Signal Processing PE II: EHV Power Transmission PE II: Restructuring of Power System nal Elective - III Power System Stability										
	EL3918 EL3919 EL3920 Professio EL3931	PE II: Advanced Digital Signal Processing PE II: EHV Power Transmission PE II: Restructuring of Power System nal Elective - III Power System Stability Electrical Distribution Systems										
	EL3918 EL3919 EL3920 Professio EL3931 EL3932	PE II: Advanced Digital Signal Processing PE II: EHV Power Transmission PE II: Restructuring of Power System nal Elective - III Power System Stability Electrical Distribution Systems Power System Operation and Control	1									
	EL3918 EL3919 EL3920 Professio EL3931 EL3932 EL3933 EL3934	PE II: Advanced Digital Signal Processing PE II: EHV Power Transmission PE II: Restructuring of Power System nal Elective - III Power System Stability Electrical Distribution Systems Power System Operation and Control Translents in Power Systems										
	EL3918 EL3919 EL3920 Professio EL3931 EL3932 EL3933 EL3934 Professio	PE II: Advanced Digital Signal Processing PE II: EHV Power Transmission PE II: Restructuring of Power System nal Elective - III Power System Stability Electrical Distribution Systems Power System Operation and Control Translents in Power Systems nal Elective - IV										
	EL3918 EL3919 EL3920 Professio EL3931 EL3932 EL3933 EL3934 Professio EL3935	PE II: Advanced Digital Signal Processing PE II: EHV Power Transmission PE II: Restructuring of Power System mal Elective - III Power System Stability Electrical Distribution Systems Power System Operation and Control Transients in Power Systems mal Elective - IV Distributed Automation	vsjems									
	EL3918 EL3919 EL3920 Professio EL3931 EL3932 EL3933 EL3934 Professio EL3935 EL3935	PE II: Advanced Digital Signal Processing PE II: EHV Power Transmission PE II: Restructuring of Power System nal Elective - III Power System Stability Electrical Distribution Systems Power System Operation and Control Translents in Power Systems nal Elective - IV Distributed Automation Power Electronics for Renewable Energy S	ystems									
	EL3918 EL3919 EL3920 Professio EL3931 EL3932 EL3933 EL3934 Professio EL3935 EL3935	PE II: Advanced Digital Signal Processing PE II: EHV Power Transmission PE II: Restructuring of Power System mal Elective - III Power System Stability Electrical Distribution Systems Power System Operation and Control Translents in Power Systems nal Elective - IV Distributed Automation Power Electronics for Renewable Energy S Control System Design										
1 2	EL3918 EL3919 EL3920 Professio EL3931 EL3932 EL3933 EL3934 Professio EL3935 EL3936 EL3937	PE II: Advanced Digital Signal Processing PE II: EHV Power Transmission PE II: Restructuring of Power System mal Elective - III Power System Stability Electrical Distribution Systems Power System Operation and Control Translents in Power Systems mal Elective - IV Distributed Automation Power Electronics for Renewable Energy S Control System Design	ystems	TER		116	16	a		100		
1 3	EL3918 EL3919 EL3920 Professio EL3931 EL3932 EL3933 EL3934 Professio EL3935 EL3935	PE II: Advanced Digital Signal Processing PE II: EHV Power Transmission PE II: Restructuring of Power System mal Elective - III Power System Stability Electrical Distribution Systems Power System Operation and Control Translents in Power Systems mal Elective - IV Distributed Automation Power Electronics for Renewable Energy S Control System Design III S Project Phase -I		TER 0	0	16		8		100		
1 3	EL3918 EL3919 EL3920 Professio EL3931 EL3932 EL3933 EL3934 Professio EL3935 EL3936 EL3937	PE II: Advanced Digital Signal Processing PE II: EHV Power Transmission PE II: Restructuring of Power System mal Elective - III Power System Stability Electrical Distribution Systems Power System Operation and Control Translents in Power Systems mal Elective - IV Distributed Automation Power Electronics for Renewable Energy S Control System Design		TER	0 0	16		8 8		100		
1 3	EL3918 EL3919 EL3920 Professio EL3931 EL3932 EL3933 EL3934 Professio EL3935 EL3936 EL3937	PE II: Advanced Digital Signal Processing PE II: EHV Power Transmission PE II: Restructuring of Power System nal Elective - III Power System Stability Electrical Distribution Systems Power System Operation and Control Translents in Power Systems nal Elective - IV Distributed Automation Power Electronics for Renewable Energy S Control System Design III S Project Phase -I Total		0 0	_	_				100		
1 3	EL3918 EL3919 EL3920 Professio EL3931 EL3932 EL3933 EL3934 Professio EL3935 EL3936 EL3937	PE II: Advanced Digital Signal Processing PE II: EHV Power Transmission PE II: Restructuring of Power System nal Elective - III Power System Stability Electrical Distribution Systems Power System Operation and Control Translents in Power Systems nal Elective - IV Distributed Automation Power Electronics for Renewable Energy S Control System Design III S Project Phase -I Total	EMES	0 0	_	_				100	40	
	EL3918 EL3919 EL3920 Professio EL3931 EL3932 EL3933 EL3934 Professio EL3935 EL3936 EL3937	PE II: Advanced Digital Signal Processing PE II: EHV Power Transmission PE II: Restructuring of Power System nal Elective - III Power System Stability Electrical Distribution Systems Power System Operation and Control Translents in Power Systems nal Elective - IV Distributed Automation Power Electronics for Renewable Energy S Control System Design III S Project Phase -I Total	EMES	TER 0 0	0	16	16	8			40	
	EL3918 EL3919 EL3920 Professio EL3931 EL3932 EL3933 EL3934 Professio EL3935 EL3936 EL3937	PE II: Advanced Digital Signal Processing PE II: EHV Power Transmission PE II: Restructuring of Power System nal Elective - III Power System Stability Electrical Distribution Systems Power System Operation and Control Translents in Power Systems nal Elective - IV Distributed Automation Power Electronics for Renewable Energy S Control System Design III S Project Phase -I Total	EMES	TER 0 0	0	16	16	8				



Nagar Yuwak Shikshan Sanstha's Yeshwantrao Chavan College of Engineering (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

SoE No. PG-301

M. Tech. SCHEME OF EXAMINATION 2020 Department of Mechanical Engineering (CAD / CAM)

-					-	Cont	act H	lours		% Weightage		ESE	
SI. No.	Sem	Course Code	Course Title	T/P	L	T	P	Total Contact Hrs.	Credits	MSEs*	TA**	ESE	Duration Hrs.
1	a l	ME3901	Stress Analysis	ESTE	3	0	0	3	3	30	30	40	3
2	1	- 39310 30025717	- Control of the state of the s	T	3	0	0	3	3	30	30	40	3
2		ME3902	Computer Integrated Manufacturing		3	U	U	3	3	30	30	40	3
			al Elective- I	-				3					
3	4	ME3907 ME3908	Project Engineering	+	3	0	0		3	30	30	40	3
3	100	ME3909	Tool Design Object Oriented Programmings	1 1	9			9	9	30	50	40	,
		ME3910	Reliability Engineering	-									
4	1	ME3903	Computer Graphics and Solid Modeling	T	3	0	0	3	3	30	30	40	3
5	4	ME3904	Lab: Computer Graphics and Solid Modeling	Р	0	0	2	2	1	60		40	
6	1	ME3905	CNC Technologies	Т	3	0	0	3	3	30	30	40	3
7	1	ME3906	Lab: CNC Technologies	Р	0	0	2	2	1	60		40	
8	4	ME3921	Product Design & Development	Т	3	0	0	3	3	30	30	40	3
	•				18	0	4	22	20			•	
			II SEM	/EST	ER								
1	2	ME3911	Robotics	T	3	0	0	3	3	30	30	40	3
2	2	ME3912	Modelling & Simulation	Т	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	Р	0	0	2	2	1	60		40	
5	2	ME3915	Artificial Intelligence	Т	3	0	0	3	3	60	30	40	3
			al Elective-II				,						
		ME3917	Product Data Management	1									
6	2	ME3918	Mechatronics	1 -	3	0	0	3	3	30	30	40	3
		ME3919	Machine Tool Design	-			0 0		3	30	30	40	
		ME3920	Plant Design	1									
7	2	ME3916	Seminar		0	0	2	2	1	100			Ċ
	-		al Elective - III		U	U	4			100			
		ME3923	Computational Fluid Dynamics	1									
8	2	ME3924	Design Optimization Techniques	1 -	3	0	0	3	3	30	30	40	3
Ĭ.	5 7 8	ME3925	Rapid Prototyping	1	-		-				35	: : : : : : : : : : : : : : : : : : :	
		ME3926	Design for Manufacturing and Assembly	-									
		WE3820	Design for Manufacturing and Assembly	\vdash	18	0	4	22	20				
			III SEI	MEGT	2500	U	4	22	20				
1	3	ME3922	Project Phase -I	T	0	0	16	16	8	100	1		
3	J	MESSZZ	Froject Friase -1		0	0	16	16	8	100	_		50
			IV SEI	MEST	2500	U	10	10	٥				
1	4	ME3931	Project Phase-II	T	0	0	24	24	12	60		40	
35	- 120	MESSOI	- Lage of a literatural		0	0	24	24	12	- 30	P		35
	 		Total of Credits		v	J	24	24	60				

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

Phone	April .	Jan,20	1.00	Applicable for Sem 1 & 2 AY 2020-21 &
Chairperson	Dean (Acad. Matters)	Date of Release	Version	Sem 3 & 4 AY 2021-22 Onwards



Yeshwantrao Chavan College of Engineering (An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

SOE No.

PG-301

M. Tech. SCHEME OF EXAMINATION 2020 Department of Computer Technology

Department of Computer Technology (Computer Science and Engineering)

SI.		Course				Conf	tact F	lours Total		% V	/eightag	e	ESE
No.	Sem	Code	Course Title	T/P	L	T	P	Contact Hrs.	Credits	MSEs*	TA**	ESE	Duratio Hrs.
			I SEI	MEST	ER								
1	1	CSE3901	High Performance Computer Architecture	Т	3	0	0	3	3	30	30	40	3
2	1	CSE3902	Real Time Systems	Т	3	0	0	3	3	30	30	40	3
3	1		Network Security & Cryptography	T	3	0	0	3	3	30	30	40	3
4	1		Lab: Network Security & Cryptography	Р	0	0	2	2	1	6	0	40	
5	1		Algorithm Design Techniques	T	3	0	0	3	3	30	30	40	3
6	1	CSE3906	Lab: Algorithm Design Techniques	Р	0	0	2	2	1		0	40	
7	1		Professional Elective-I	T	3	0	0	3	3	30	30	40	3
8	1	0053045	Professional Elective- II	P	3	0	0	3	3	30	30	40	3
9	1	CSE3915	Software Lab 1	-	0	0	2	2	2		0	40	
P. D. All.		VINE CONTRACT TO	Total	, ,	18	0	6	24	22				
ist of	Profes	sional Elect	tives-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 o	Profes	sional Elec	tive- 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 SE	MEST	ER								
1	2	CSE3916	Data Mining	Т	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	V-000000000000000000000000000000000000	Optimizing Compilers	Ť	3	0	0	3	3	30	30	40	3
4	2	100000000000000000000000000000000000000	And the same of th	-	0	0	2	2	1	_	0	40	3
	. 1000	CSE3919	Lab: Optimizing Compilers	P	1000	1005	-			797	A SECTION AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSO	1000000	_
5	2	CSE3920	Software Architecture	Т	3	0	0	3	3	30	30	40	3
6	2	CSE3921	Lab. Software Architecture	Р	0	0	2	2	1	ь	0	40	
7	2	CSE3922	Seminar (Technical Writing and Publishing)	Р	0	0	2	2	1	0.99	100		1
8	2		Professional Elective-III	Т	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	Р	0	0	2	2	2	6	0	40	
					18	0	8	26	23				**
ist of	Profes	sional Elect	tives-III										
1	2	CSE3923	PE III: Computer Vision										
2	2		PE III: Data Warehousing										
3	2		PE III:Research Methodology & Statistics										
4	2	CSE3926	PE III: Information Retrieval Systems										
l jet ~	Drofes	sional Elec	tive IV										
1	2		PE IV: Cyber Forensics										
2	2		PE IV: Deep Learning										
3	2		PE IV: Fundamentals of Bioinformatics										
4	2		PE IV: Semantic Web and Social Networks	0.1									
			III SE	MEST	ER								
1	3	CSE3939	Project Phase -I	П	0	0	16	16	8	11	00		
				+	0	0	16	16	8		2273		
			IV SE	MEST			10	1.0					
		005	Karranania kannanana arenaze	I	Trose 1	0.88		F	100		^		
22	1,0100	CCE2010	Project Phase-II	1	0	0	24	24	12	6	0	40	l
1	4	CSE3940	Troject i nase ii	-					02				
Ĩ	4	C3E3340	in a jest i hase ii		0	0	24	24	12				

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

Gnolopekan	de	Jan,20	1.00	Applicable for Sem 1 & 2 AY 2020-21 & Sem 3
Chairperson	Dean (Acad. Matters)	Date of Release	Version	& 4 AY 2021-22 Onwards





