

Maitrey Educational Society

Nagarjuna

Institute of Engineering, Technology & Management

(AICTE, DTE Approved & Affiliated to R.T.M. Nagpur University Nagpur)

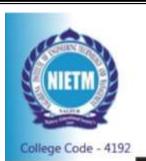
Village Satnavri, Amravati Road, Nagpur 440023 Email: maitrey.ngp@gmail.com; Website: www.nietm.in; Phone No. 07118 322211, 12

National Assessment and Accreditation Council AOAR 2020-21

NAAC Criteria-1: Academic flexibility

1.2 Curricular Planning and Implementation

1.2.1	Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented
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Criteria-1: Academic aspects

Metric No. 1.2.1 and 1.2.2.1

Contents

Index- Documents attached: 1.2.1.1 Number of Programs in which Choice Based Credit System (CBCS)/elective course system has been implemented (As per examination Scheme of CBS pattern) Academic Session 2020-21

Sr. no	Documents attached
1	CBS electives for mechanical, civil, electrical and computer science engineering
2	Examination scheme

1.2.1 Number of Programs in which Choice Based Credit System (CBCS)/elective course system

Programme Code	Programme name	Year of Introduction	Status of implementation of CBCS / elective course system (Yes/No)	Year of implemetation of CBCS / elective course system	Year of revision (if any)
419219110	Civil Engineering	2009	Yes	2012-13	2020
419235610	Electrical Engineering	2009	. Yes	2012-13	2020
419264210	Mechanical Engineering	2009	Yes	2012-13	2020
419224210	Computer Science Engg	2009	Yes	2012-13	2020

Year	2012-13(Elective course
rear	system
Number	4

Year	2020-21(
rear	CBCS)	
Number	4	

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Academic Session 2020-21 Department of Computer Science Engineering

Sr.no	7th Sem Elective 1	7th Sem Elective 2	8th Sem Elective 3	8th Sem Elective 4
1	TCP and IP	Computational	Pattern Recognition	Advance Wireless
	12 2 -	Geometry		Sensor Network
2	Advanced Computer	Mobile Computing	Soft Computing	Digital Image Processing
-	Architecture		Techniques	
3	Big Data Analysis & Bl	Real Time Operating	Optimization Techniques	Natural Language Pro
		System		
4	Parallel & Network	Software Architecture	Clustering & Cloud	Digital Forensic
	Algorithm		Computing	
5		Software Architecture		
6		Mainframe		
		Technologies	*	

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1.2.1.1 Number of Programs in which Choice Based Credit System (CBCS)/elective course system has been implemented (As per examination Scheme of CBS pattern) Academic Session 2020-21 Department of Mechanical Engineering

Sr.no	7th Semester Elective 1	8th Semester Elective II	8th Semester Elective III
1	Subject	Subject	Subject
	Industrial Robotics	Finite Element Method	AMT
3	Automobile Engineering	Industrial Fluid Power	Renewable energy systems
4	Power Plant Engineering	MIS	Mechanical Vibrations
5	Synthesis of Mechanisms	Refrigeration & Air-Conditioning	Advance I.C. Engine
()	Material Handling Systm	Stress Analysis	Tribology

Department of Electrical Engineering

Sr.no	7th Semester Elective 1	8th Semester Elective 2	8 th Semester Elective 3
1	IT and Its Applications in Power	Entrepreneurship	Bio-medical Engineering
	System Control	Development	All the American State of the S
	Fuzzy Logic and Neural Networks	Digital Signal Processing	Advanced Microprocessor
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Peripherals
3	Flexible AC Transmission Systems	Power Quality	Power Semiconductor Based
			Electric Drives
4	Energy Management Audit	Electrical Distribution systm	EHV AC and HVDC
		a 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Transmission

Department of Civil Engineering

Sr.no	7th Semester Elective 1	8th Semester Elective 2	8th Semester Elective 3
1	Advanced construction materials	Pre-stress concrete	Advanced geotechnical engineering
	Building services	Pavement analysis and design	Advanced concrete technology
3	Sustainable resource management in civil engineering	Watershed management	Advanced reinforced cement concrete design
4	Advanced hydraulics	Environmental management system	Advanced steel design
5	Air pollution and solid waste management	Water transmission and distribution system	Water and waste water treatment
6	Advanced traffic engineering	Geotechnical investigation & ground improvement technique	Applied remote sensing and GIS
7	Earthquake resistant design of structure	Advance engineering geology	
8	Advanced construction materials	Water power engineering	
9	Building services	Forensic civil engineering	
10	Sustainable resource management in civil engineering	Disaster response and management techniques	* <u></u>

Department of Computer Science Engineering

Sr.no	7th Sem Elective 1	7th Sem Elective 2	8th Sem Elective 3	8th Sem Elective 4
1	TCP and IP	Computational Geometry	Pattern Recognition	Advance Wireless Sensor Network
2	Advanced Computer Architecture	Mobile Computing	Soft Computing Techniques	Digital Image Processing
3	Big Data Analysis & BI	Real Time Operating System	Optimization Techniques	Natural Language Pro
4	Parallel & Network Algorithm	Software Architecture	Clustering & Cloud Computing	Digital Forensic
5		Software Architecture		
6		Mainframe Technologies		

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Academic Session 2020-21 Department of Mechanical Engineering

Sr.no	7th Semester Elective 1	8th Semester Elective II	8th Semester Elective III
1	Subject	Subject	Subject
2			Advanced Manufacturing
	Industrial Robotics	Finite Element Method	Techniques
3	Automobile Engineering	Industrial Fluid Power	Renewable energy systems
4	Power Plant Engineering	MIS	Mechanical Vibrations
5	Synthesis of Mechanisms	Refrigeration & Air-Conditioning	Advance I.C. Engine
6	Material Handling System	Stress Analysis	Tribology

Department of Electrical Engineering

Sr.no	7th Semester Elective 1	8th Semester Elective 2	8th Semester Elective 3
1	IT and Its Applications in Power	Entrepreneurship	Bio-medical Engineering
	System Control	Development	
	Fuzzy Logic and Neural Networks	Digital Signal Processing	Advanced Microprocessor
	5		Peripherals
- 3	Flexible AC Transmission Systems	Power Quality	Power Semiconductor Based
			Electric Drives
4	Energy Management Audit	Electrical Distribution system	EHV AC and HVDC
	1 = 2		Transmission

Department of Civil Engineering

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5 .	Air pollution and solid waste management	Water transmission and distribution system	Water and waste water treatment				
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8	Advanced construction materials	Water power engineering					
9	Building services	Forensic civil engineering					
10	Sustainable resource management in civil engineering	Disaster response and management techniques					

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Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur

Faculty of Engineering & Technology CIVIL ENGINEERING

Scheme of Examination & Evaluation - CBS

Semester: Seventh Duration **Evaluation Scheme** Teaching Scheme (Clock Hours/ Week) of Assessment of Marks for Practical Assessment of Marks for Theory University Subject Code Course Theory Tutorial Practical Total College Assessment (CA) Theory Total Min. Marks Credits University Total Min. External Internal hrs/week hrs/week hrs/week Exam Marks Marks Marks (Hrs) Advanced Concrete 4 40 100 BECVE701T 4 4 20 80 Structures
Advanced Concrete 25 50 25 25 BECVE701P 2 2 1 Structures 4 100 40 4 4 20 BECVE702T Estimating and Costing 3 1 50 100 50 50 2 2 1 Estimating and Costing BECVE702P 3 40 100 4 20 80 1 3 BECVE703T 100 40 3 Construction
Management and Law 20 80 4 4 4 BECVE704T 3 4 80 100 40 Transportation 3 1 BECVE705T Engineering - II 100 50 Industrial Case Study 50 3 3 BECVE706P and Project Seminar 125 125 500 7 27 25 400 Note: 1. External Practical Evaluation of "Estimating & Costing" shall be performance based (Manual or using suitable Software) on assigned problem by the External Examiner

2. Evaluation of Summer Training – 2 (ST-2) shall be done as Industrial Case Study Component & minimum two seminar should be delivered as continuous college assessment for project seminar

component.

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Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur Faculty of Engineering & Technology CIVIL ENGINEERING Scheme of Examination & Evaluation - CBS Semester: Eighth

		Teaching Scheme (Clock Hours/ Week)			Evaluation Scheme Accompant of Marks for Theory Assessment of Marks for Practical							ractical	Duration of		
Subject Code	Course	Theory Tutoria		Practical	Total	Credits	Assessment of Marks for Theory				Assessment of America				University
			Tutorial hrs/week				College Assessment (CA)	University Exam	Total Marks	Min. Marks	Internal	External	Total Marks	Min. Marks	Theory Exam (Hrs)
					5	5	20	80	100	40					3
BECVE801T	Irrigation Engineering	3	2		-	4	20	80	100	40					3
BECVE802T	Elective - II	3	- 1		4	4	20								
BECVE803T	Elective - III	4			4	4	20	80	100	40		-			3
BECVE803P	Elective - III			2	2	1					25	25	50	25	
BECVE804T	Construction Economics	3	1		4	4	20	80	100	40					3
BECVE8041	and Finance			-							75	75	150	75	
BECVE805P	Project			6	6	6					/3			"	
Total		13	4	8	25	24	80	320	400		100	100	200		

Note: Internal Evaluation of Project shall be based on the academic contribution of a student and delivery of minimum one seminar on the project work.

BECVE804T - Construction Economics and Finance subject shall be dealt by Board of Basic Science and Humanities.

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