



Website: www.jdcoem.ac.in E-mail: info@jdcoem.ac.in
An Autonomous Institute, with NAAC "A" Grade
Affiliated to DBATU, RTMNU & MSBTE, Mumbai
Department of Civil Engineering
"Building Better Development"
Session 2021-22

1.1.1

Program Specific Outcomes							
PSO Statement		Relevance to Development Need					
PSO1	Represent and relate the basic engineering knowledge with proficiency in competent problem-solving ability through analysis, investigation and design of diverse area of civil engineering.	Local, Regional, National					
PSO2	Inculcate the professionalism in communication with application of modern civil engineering tools along with ethical and societal responsibilities to have a successful career.	Local, Regional, National					
PSÖ3	Assemble the concept of civil engineering for higher education, research or entrepreneurship and also evaluates the information for maintaining the specifications in quality work.	Local, Regional. National, Global					

Course Category	Sample Relevant Courses
Relevance to the Local Needs	Innovation and Entrepreneurship Development, Life Science, Consumer Affairs
Relevance to the Regional Needs	Energy Science and Engineering, Mini Project & Seminar, Project-2, Internship, Hydrology & Water Resource Engineering
Relevance to the National Needs	Mechanics of Rigid bodies, Building Drawing and Drafting, Concrete Technology & Design of RCC Building Elements, Professional Practice, Law & Ethics, Engineering Economics, Estimating and Costing
Relevance to the Global Needs	Universal Human Values, Engineering Mathematics-Iii, Civil Engineering - Societal & Global Impact, Campus Recruitment Training (CRT), Skill Development, Research Methodology, Solid Mechanics

Principal
) D College of Engineering & Management
Khandala, Katol Road
Nagpur-441501

A THE WALL

HoD/B.O.S Chairman

H.O.D.

Department of Civil Engineering

1.D.C. O.E.M., Nagpur





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Department of Civil Engineering
"Building Better Development"
Session 2021-22

VISION

MISSION

Provide quality education and excellent learning Environment for overall development of students. Making Sustainable efforts for integrating academics with Industry.

To be a well-known center for shaping professional leaders of Global Standards in Civil Engine

Teaching Scheme

Branch: Civil Engineering

Branch Code: CE

			III Semester								
Sr.	Category	Course	_	Teacl	hing Scl	ieme		Evaluat	ion Scheme	e	
No.	of Subject	Code	Course Name	L	T	P	CA	MSE	ESE/Ext . Pra.	Total	Credit
1	HSMC	CE3T001	Civil Engineering - Societal & Global Impact	2	0	0	20	20	60	100	2
2	BSC	CE3T002	Engineering Mathematics-III	2	1	0	20	20	60	100	3
3	ESC	CE3T003	Building Drawing and Drafting	2	1	0	20	20	60	100	3
4	ESC	CE3T004	Mechanics of Rigid Bodies		1	0	20	20	60	100	3
5	ESC	CE3T005	Energy Science and Engineering		0	0	20	20	60	100	3
6	PCC	CE3T006	Basic Geology and Geotechnical Engineering	3	0	0	20	20	60	100	3
7	MC	CE3T007	Universal Human Values	3	0	0	20	20	60	100	3
8	ESC	CE3L001	Building Drawing and Drafting Lab	0	0	4	60	0	40	100	2
9	ESC	CE3L002	Mechanics of Rigid Bodies Lab	0	0	2	60	0	40	100	1
10	PCC	CE3L003	Basic Geology and Geotechnical Engineering Lab		0	2	60	0	40	100	1
11	PROJECT	CE3F004	Field Visit I		0	0	0	0	50	50	1
			MILE TO LIE	17	3	8		F	syt le eve		25

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			IV Semester								
Sr. No.	Category	Course		Teac	hing Sc	heme		Evalua	tion Schem	e	
Sr. No.	of Subject Code Course Name		Course Name	L	Т	Р	CA	MSE	ESE/Ext. Pra.	Total	Credit
1	BSC	CE4T001	Life Science	2	0	0	20	20	60	100	2
2	PCC	CE4T002	Hydrology & Water Resource Engineering	2	1	0	20	20	60	100	3
3	PCC	CE4T003	Concrete Technology & Design of RCC Building Elements	2	1	0	20	20	60	100	3
4	PCC	CE4T004	Solid Mechanics	2	1	0	20	20	60	100	3
5	PCC	CE4T005	Surveying and Geomatics	2	0	0	20	20	60	100	2
6	PCC	CE4T006	Materials, Testing & Evaluation	2	0	0	20	20	60	100	2
7	PCC	CE4L001	Concrete Technology & Design of RCC Building Elements Lab	0	0	2	60	0	40	100	1
8	PCC	CE4L002	Solid Mechanics Lab	0	0	2	60	0	40	100	1
9	PCC	CE4L003	Surveying and Geomatics Lab	0	0	4	60	0	40	100	2
10	PROJECT	CE4F004	Field Visit II	0	0	0	0	0	50	50	1
11	MC	CE4T007	Innovation and Entrepreneurship Development	2	0	0	10	15	25	50	AU
				14	3	8					20



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			V Semester	r							
~	Category	Course		Teac	ching So	heme		Evaluat	ion Schem	e	
Sr. No.	of Subject	Code	Course Name	L	Т	Р	CA	MSE	ESE/Ext. Pra.	Total	Credit
1	HSMC	CE5T001	Professional Practice, Law & Ethics	2	0	0	20	20	60	100	2
2	PCC	CE5T002	Fluid Mechanics	2	1	0	20	20	60	100	3
3	PCC	CE5T003	Structural Analysis	2	1	0	20	20	60	100	3
4	PCC	CE5T004	Transportation Engineering	3	0	0	20	20	60	100	3
5	OEC	CEOEC1	Open Elective-I	4	0	0	20	20	60	100	4
6	PCC	CE5L001	Fluid Mechanics Lab	0	0	2	60	0	40	100	1
7	PCC	CE5L002	Structural Analysis Lab	0	0	2	60	0	40	100	1
8	PCC	CE5L003	Transportation Engineering Lab	0	0	2	60	0	40	100	1
9	PROJECT	CE5P004	Mini Project & Seminar	0	0	2	60	0	40	100	1
10	PROJECT	CE5F005	Field Visit III	0	0	0	60	0	40	100	1
11	MC	CE5T005	Consumer Affair	2	0	0	10	15	25	50	AU
				15	2	8					20



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			VI Semester								
Sr. No.	Category	Course	6	Tea	ching S	cheme	744	Evaluat	ion Schem	e	
51. 110.	of Subject Code		Course Name	Course Name L		P	CA	MSE	ESE/Ext . Pra.	Total	Credi
1	PCC	CE6T001	Design of Steel Structures	2	1	0	20	20	60	100	3
2	PCC	CE6T002	Environmental Engineering	3	0	0	20	20	60	100	3
3	PEC	CE5TE01	Professional Elective I	3	0	0	20	20	60	100	3
4	PEC	CE6TE02	Professional Elective-II	3	0	0	20	20	60	100	3
5	OEC	CEOEC2	Open Elective-II	4	0	0	20	20	60	100	4
6	PCC	CE6L001	Design of Steel Structures Lab	0	0	2	60	0	40	100	1
7	PCC	CE6L002	Environmental Engineering Lab	0	0	2	60	0	40	100	1
8	PROJECT	CE6P003	Mini Project & Seminar	0	0	2	30	0	20	50	1
9		CE6P004	Campus Recruitment Training (CRT)	0	0	2	50	0	0	50	1
10		CE6P005	Skill Development	0	0	2	15	0	35	50	1
11	MC	CE6T004	Research Methodology	2	0	0	10	15	25	50	AU
				17	1	10					21



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B. Tech. Civil Engineering

Course Structure for Semester VII (Fourth Year) w.e.f. 2020-2021

Course Code	Type of Course	Course Title	T	Week `eachi Schen	ng	I	Evaluatio	on Sche	me	Credits
			L	T	P	CA	MSE	ESE	Total	
BTCVC701	Core	Design of Concrete Structures - II	2	1		20	20	60	100	3
BTCVC702	Core	Infrastructure Engineering	3			20	20	60	100	3
BTCVC703	Core	Water Resources Engineering	3	1		20	20	60	100	4
BTCVC704	Core	Professional Practices	2	1		20	20	60	100	3
BTCVE705A		Construction Techniques								
BTCVE705B		Engineering Economics	1							
BTCVE705C	Elective IV	Finite Element Method	1			20	20	60		
BTCVE705D		Limit State Design of Steel Structures	3						100	3
BTCVE705E		Plastic Analysis and Design								
BTCVE705F		Water Power Engineering	1							
BTCVOE706A		Advanced Structural Mechanics								
BTCVOE706B		Air Pollution Control	1							
BTCVOE706C		Bridge Engineering								
BTCVOE706D	Open Elective V	Introduction to Earthquake Engineering	3							Audit (AU/ NP)
BTCVOE706E		Town and Urban Planning								TVI)
BTCVOE706F		Tunneling and Underground Excavations								
BTCVL707	Laboratory	Design & Drawing of RC & Steel Structures			2	30		20	50	1
BTCVL708	Laboratory	Professional Practices			2	30		20	50	1
BTCVT709	Training	Field Training /Internship/Industrial						50	50	1
BTCVS710	BTS	Seminar			2			50	50	1
BTCVP711	BTP	Project Stage-I**			6		50	50	100	3
		Total	16	3	12	160	150	490	800	23

**In case of students opting for Internship and Industry Project in the eighth semester, the Project must be industry-based.

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B. Tech. Civil Engineering

Course Structure for Semester VIII [Fourth Year] w.e.f. 2020-2021

Course Code	Type of Course	Course Title	Week	dy Tea Schem	aching e	F	Evaluation Scheme ⁸			Credits
	Course		L	T	P	CA	MSE	ESE	Total	Credits
BTCVSS801A		Characterization of Construction Materials								
BTCVSS801B	(Self- Study	Geosynthetics and Reinforced Soil Structures	03**		_	20	20	60		3
BTCVSS801C	Course)#	Higher Surveying				20	20	00	100	3
BTCVSS801D		Maintenance and Repair of Concrete Structures								
BTCESS801E		Structural Dynamics								
BTCESS802A		Energy Efficiency Acoustics and Daylighting in Building								
BTCESS802B	(Self-	Environmental Remediation of Contaminated Sites	03**					60		
BTCESS802C	Study Course)#	Remote Sensing Essentials				20	20		100	3
BTCESS802D	,	Mechanical Characterization of Bituminous Materials								
BTCESS802E		Soil Structure Interaction								
BTCEP803	Project Stage-II	In-house Project or Internship and Project in Industry*			30	50		100	150	15
		Total	04		30	90	40	220	350	21

^{*}The subjects are to be studied on self-study mode using SWAYAM/NPTEL/any other online source approved by the University.

^{*} Six months of Internship and Project in the Industry. One Faculty guide from the Institute and one Mentor from the Industry should be identified to monitor the progress of work. During the Project/Internship period of work, a review of work should be taken twice followed by a final presentation at the end of Project period.



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[&]quot;If required Coordinator may be appointed for each Self study course and an administrative load of 03 hours per week may be considered for monitoring and assisting the students, and to conduct examination (if required), evaluation and preparation of result.

^s If the examination schedule for the online Self study course chosen by student do not match with the University's Academic Schedule, the University/Institute have to conduct exam for such courses.



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J D COLLEGE OF ENGINEERING AND MANAGEMENT

KATOL ROAD, NAGPUR

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Affiliated to DBATU, RTMNU

Department of Electrical Engineering

"Igniting minds to illuminate the world"

AY-2021-22



VISION

"To develop competent and committed Electrical Engineers

MISSIO

- 1. To impart quality education in the field of Electrical Engineering.
- 2. To be excellent learning center through research and industry interaction.

1.1.1

to serve the society"

D. ICC	ch. Electrical Engineering	1.00
	Program Spe	ecific Outcomes
PSO	Statement	Relevance to Development Need (Select Suitable)
PSO1	Interpret, identify and analyze problems in electrical domain and demonstrate this knowledge to develop, control and assess electrical systems.	Local,Regional
PSO2	Solve ethically and professionally various Electrical Engineering problems in societal and environmental context and communicate effectively.	Local,Regional.National
PSO3	Apply modern software tools for design, simulation and analysis of electrical systems to engage in life-long learning and to successfully adapt in multi disciplinary environments	Local, Regional National, Global

Course Category	Sample Relevant Courses
Relevance to the Local Needs	Consumer Affairs, Engineering Economics, Electrical Machine I, ,Universal Human Values
Relevance to the Regional Needs	Engineering Economics, Electrical Machine I, Innovation and entrepreneurship Development, Consumer Affairs, Power Systems, Power Station Practice, Entrepreneurship essentials.
Relevance to the National Needs	Engineering Economics, Electrical Machine I, Power station Practice, Innovation and entrepreneurship Development, Intellectual Property Rights, Consumer Affairs, Power Systems, Entrepreneurship essentials.

Relevance to the Global Needs	Universal Human Values –II, Electrical Machine I, Control System I, Power
	Systems

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HoD(EE)
HOD
Dept.of Electrical Engineering J.D Jollage of Engineering & Management, Nagpur





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"A Place to Learn; A Chance to Grow"
Session 2021-22



VISION

To be a recognized as an Excellent Innovative Engineering Department through Academic Programme which develops leaders in Education and Research in Computer Science."

MISSION

- To create self-learning environment by facilitating leadership qualities, team-spirit and ethical responsibilities.
- 2. To Strengthen department-industry collaboration and interaction with professional society through technical knowledge and internship program.
- To promote research and development with current techniques through well qualified resources in the area of computer science and wireless engineering.

PSO Relevance to Development Need (B.Tech)

PSO	Statement	Relevance to Development Need
PSO1	The ability to understand, analyse and develop computer programs in the areas related to algorithms, system software, multimedia, web design, big data analytics, and networking for efficient design of computer-based systems of varying complexity	Local/ Regional/ National/ Global
PSO2	The ability to apply standard practices and strategies in software project development using open-ended programming environments to deliver a quality product for business success.	Local/ Regional/ National/ Global
PSO3	The ability of employ modern computer languages, environments, and platforms in creating innovative career paths to be an entrepreneur, lifelong learning & a zest for higher studies and also acts as good citizen by inculcating in them moral values & ethics.	Local/ Regional/ National/ Global

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Course Category	Sample Relevant Courses
Relevance to the Local Needs	Innovation and Entrepreneurship Development, CRT(Campus Recruitment Training), Skill Development, Intellectual Property Rights, Computer Network, Field Training/Industrial Visit.
Relevance to the Regional Needs	Digital Electronics and Microprocessor, , Internet of Things., Computer Network
Relevance to the National Needs	Organization Behaviour, Universal Human Values, Consumer Affairs, Ethics in IT, CRT(Campus Recruitment Training), Skill Development, Intellectual Property Rights, Innovation and Entrepreneurship Development
Relevance to the Global Needs	Programming for Problem Solving, Digital Electronics and Microprocessor, Data structure & Algorithms, Operating System, Computer Architecture Organization, Software Engineering. Java Programming, FLAT, Computer Network, Database Management Systems, Discrete Mathematics & Graph Structures, TCP/IP. Internet of Things, TCP/IP, Design and Analysis of Algorithm, OSOS (Open Source Operating System), Augmented Reality (Elective 1), Block Chain (Elective 1), Artificial Intelligence & Robotics, Neural Networks and Machine Learning, Cloud Computing, Human Computing, Digital Forensic, Augmented Reality



"A Place to Learn; A Chance to Grow" Session 2021-22

<u>VISION</u>

To be a recognized as an Excellent Innovative Engineering Department through Academic Programme which develops leaders in Education and Research in Computer Science."

MISSION

 To create self-learning environment by facilitating leadership qualities, team-spirit and ethical responsibilities.

To Strengthen department-industry collaboration and interaction with professional society through technical knowledge and internship program.

To promote research and development with current techniques through well qualified resources in the area of computer science and wireless engineering.

Block Chain,3D Printing & Design, Deep Learning, Software Engineering, Data Science, Big Data Analytic Technique, Digital Image Processing, Natural Language Processing, AI In Wireless Communication, Research Methodology, Full Stack Development, Advanced Database System, Ethical Hacking, Innovation and Entrepreneurship Development

Cool

HOD, CSE, JDCOEM

HOD

Computer Science & Engineering



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Department of Information Technology
"Progress Beyond Excellence"
2021-22

PSO Relevance to Development Need (B.Tech)

PSO	Statement	Relevance to Development Need
PSO1	The ability to understand, analyse and develop computer programs in the areas related to algorithms, system software, multimedia, web design, big data analytics, and networking for efficient design of computer-based systems of varying complexity	Local/ Regional/ National/ Global
PSO2	The ability to apply standard practices and strategies in software project development using open-ended programming environments to deliver a quality product for business success.	Local/ Regional/ National/ Global
PSO3	The ability of employ modern computer languages, environments, and platforms in creating innovative career paths to be an entrepreneur, lifelong learning & a zest for higher studies and also acts as good citizen by inculcating in them moral values & ethics.	Local/ Regional/ National/ Global

Course Category	Sample Relevant Courses
Relevance to the Local Needs	Innovation and Entrepreneurship Development, CRT(Campus Recruitment Training), Skill Development, Intellectual Property Rights, Computer Network, Field Training/Industrial Visit.
Relevance to the Regional Needs	Digital Electronics and Microprocessor, , Internet of Things., Computer Network
Relevance to the National Needs	Organization Behaviour, Universal Human Values, Consumer Affairs, Ethics in IT, CRT(Campus Recruitment Training), Skill Development, Intellectual Property Rights, Innovation and Entrepreneurship Development
Relevance to the Global Needs	Programming for Problem Solving, Digital Electronics and Microprocessor, Data structure & Algorithms, Operating System, Computer Architecture Organization, Software Engineering. Java Programming, FLAT, Computer Network, Database Management Systems, Discrete Mathematics & Graph Structures, TCP/IP. Internet of Things, TCP/IP, Design and Analysis of Algorithm, OSOS (Open Source Operating System), Augmented Reality (Elective 1), Block Chain (Elective 1), Artificial Intelligence & Robotics, Neural Networks and Machine Learning, Cloud Computing, Human Computing, Digital Forensic, Augmented Reality Block Chain, 3D Printing & Design, Deep Learning, Software Engineering, Data Science, Big Data Analytic Technique, Digital Image Processing, Natural Language Processing, Al In Wireless Communication, Research Methodology, Full Stack Development, Advanced Database System, Ethical Hacking, Innovation and Entrepreneurship Development

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J D College of Engineering & Management Khandala, Katol Road Nagpur-441501 HOD, IT, JDCOEM

HOD
Information Technolog.
JDCOEM, Nagpu





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Department of AI
"A Place to Learn; A Chance to Grow"
Session 2021-22

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To be a recognized as an Excellent Innovative Engineering Department through Academic Programme which develops leaders in Education and Research in Computer Science."

MISSION

 To create self-learning environment by facilitating leadership qualities, team-spirit and ethical responsibilities.

To Strengthen department-industry collaboration and interaction with professional society through technical knowledge and internship program.

3. To promote research and development with current techniques through well qualified resources in the area of computer science and wireless engineering.

PSO Relevance to Development Need

PSO	Statement	Relevance to Development Need (Select Suitable)
PSO1	Understand the basic engineering principles and achieve the hardware and software aspects of computer engineering.	Local/ Regional/ National/ Global
PSO2	Analyse the real world applications using algorithmic models and acquire the knowledge of computer architecture	Local/ Regional/ National/ Global
PSO3	Ability to design and develop applications using various software tools.	Local/ Regional/ National/ Global

Course Category	Sample Relevant Courses
Relevance to the Local Needs	Operating System & Virtualization, AI in Business Intelligence
Relevance to the Regional Needs	Internet of Things, Statistical Data Analysis, AI in Business Intelligence, AI & Cognitive Robotics, AI In satellite and Radar System
Relevance to the National Needs	Organization Behaviour, Universal Human Values, Consumer Affairs, Ethics in IT, CRT(Campus Recruitment Training), Skill Development, Intellectual Property Rights, Innovation and Entrepreneurship Development
Relevance to the Global Needs	Mathematics-III, Statistical Data Analysis, Computer Architecture and Organisation, Internet of Things, Data Structure & Algorithms, Theory of Computation, Design & Analysis of Algorithm, Operating System & Virtualization, Neural Networks & Fuzzy System, Discrete Mathematics & Graph Structures, Database Management Systems, AI & Cognitive Robotics, Digital Image Techniques and Analysis, Machine Learning & Deep Learning, AI in Business Intelligence, Innovation and Entrepreneurship Development, Advanced Computer Vision, Data Science, MI with Big Data - Tools & Techniques, Machine Learning with Large data Sets, AI In satellite and Radar System, Object Oriented Methodology

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Color

HOD, AI, JDCOEM

HOD Artificial Intelligence JDCOEM, Nagpur





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Department of CSE
"A Place to Learn; A Chance to Grow"

VISION	MISSION
To be a recognized as an Excellent Innovative Engineering Department through Academic Programme which develops leaders in Education and Research in Computer Science."	 To create self-learning environment by facilitating leadership qualities, team-spirit and ethical responsibilities. To Strengthen department-industry collaboration and interaction with professional society through technical knowledge and internship program. To promote research and development with current techniques through well qualified resources in the area of computer science and wireless engineering.

Session 2021-22

PSO Relevance to Development Need (M.Tech)

PSO	Statement	Relevance to Development Need (Select Suitable)
PSO1	Understand the basic engineering principles and achieve the hardware and software aspects of computer engineering.	Local/ Regional/ National/ Global
PSO2	Analyze the real world applications using algorithmic models and acquire the knowledge of computer architecture.	Local/ Regional/ National/ Global
PSO3	Ability to design and develop applications using various software tools.	Local/ Regional/ National/ Global

Course Category	Sample Relevant Courses		
Relevance to the Local Needs	Computer Algorithm, Communication Skills, Object Oriented Systems.		
Relevance to the Regional Needs	Communication Skills, Intrusion Detection System, High Performance Computing Reinforcement Learning, Software Testing.		
Relevance to the National Needs	Game Theory, Social Network Analysis, Communication Skills, Advanced Computer Networks, Software Architecture, Functional Programming, Pattern Recognition.		
Relevance to the Global Needs	Computer Algorithm, Advanced Operating System, Advanced computer Network, Mobile Communication and Computing, Game Theory, Social Network Analysis, Intrusion Detection System, Artificial Intelligent and knowledge Reasoning, High Performance Computing, Communication Skills, Software Architecture, Algorithm for Big Data, Real Time System, Cryptography and Network Security, Machine Learning. Communication Skill, Software Lab I, Data Science, Project Management and Intellectual Property Rights, Virtual Reality, Introduction to Cognitive Sciences.		

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(1900)

HOD, CSE, JDCOEM

HOD Computer Science & Engineering JDCOEM, Nagpur



JAIDEV EDUCATION SOCIETY'S J D COLLEGE OF ENGINEERING AND MANAGEMENT

KATOL ROAD, NAGPUR
Website: www.idcoem.ac.in



An Autonomous Institute, with NAAC "A" Grade Department of Mechanical Engineering

Session: 2021+2-2

VISION "To be a center of excellence for learning and research in mechanical Engineering."		Acc the	vironmer complish	expe	Mech ectati be	on of inde compete	innovative gineering ustry and soc nt profession	iety by	research nurturing th overall
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Program Specific Outcomes				
PSO	Statement	Relevance to Development Need (Select Suitable)		
PSO1	Graduates should excel in engineering positions in industry and other organizations that emphasize design and implementation of engineering systems and devices	Global		
PSO2	Alumni should establish a successful career in an engineering-related field and adapt to changing technologies.	National / Global		
PSO3	Graduates should be good citizens and cultured human beings, with full appreciation of the importance of professional, ethical and societal responsibilities.	Global		

Course Category	Sample Relevant Courses
Relevance to the Local Needs	Communication Skills, Introduction to Computer programming, Industrial visit, Innovation and Entrepreneurship Development, Campus Recruitment Training, Research Methodology,
Relevance to the Regional Needs	Basic Electrical and Electronics Engineering, Product Design and Development, Consumer Affair, Skill Development, Intellectual property rights
Relevance to the National Needs	Basic Civil and Mechanical Engineering, Universal Human Value, Numerical Method, Basic Electronic Engineering,
Relevance to the Global Needs	Engineering Mathematics- I, Engineering Chemistry, Engineering Graphics, Engineering Mathematics- II, Engineering Physics, Energy and Environment Engineering, Applied Maths-III, Material Science, Engineering Thermodynamics, Theory Of Machines-I, Manufacturing Engineering-II, Manufacturing Engineering-II, Strength Of Materials, Fluid Mechanics & Fluid Machines, Heat Transfer, Theory Of Machines-II, Measurement and Quality Control, Operation Research, Applied Thermodynamics, Design of Machine Element,

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Head of Department