

SANMATI ENGINEERING COLLEGE, WASHIM

AQAR 2021-22

Yearly Status Report - Extended Profile

1.1. Number of courses offered by the institution across all programs during the year.

As institute is affiliated with SGBAU Amravati, Schemes of all courses provided by Sant Gadge Baba Amravati University, Amravati is provided for data validation.



Four Year Degree Course in Bachelor of Engineering Branch - B.E./B.Tech./B.Text./E.(Common to all the Branches)
Semester Pattern (Choice Based Credit system)

Appendix-A

Sr. No.	Subject Code	Subject	TEACHING SCHEME				CREDITS	DURATION OF PAPER (Hrs)	MAX. MARKS THEORY PAPER	THEORY		PRACTICAL				
			Lecture	Tutorial	P/D	Total HOURS/WEEK				MAX. MARKS COLLEGE ASSESSMENT	TOTAL	MIN. PASSING MARKS	MAX. MARKS		TOTAL	MIN. PASSING MARKS
													EXTERNAL	INTERNAL		
Semester :FIRST/SECOND GROUP A																
EXAMINATION SCHEME																
THEORY																
01	1A1	Engineering Mathematics I	3	1	-	4	4	80	20	100	40	-	-	-		
02	1A2	Engineering Physics	4	-	-	4	4	80	20	100	40	-	-	-		
03	1A3	Engineering Mechanics	3	1	-	4	4	80	20	100	40	-	-	-		
04	1A4	Computer Programming	3	-	-	3	3	80	20	100	40	-	-	-		
PRACTICALS																
05	1A5	Workshop Practice	-	-	4	4	2	-	-	-	-	25	25	50	25	
06	1A6	Engineering Physics Laboratory	-	-	2	2	1	-	-	-	-	25	25	50	25	
07	1A7	Engineering Mechanics Laboratory	-	-	2	2	1	-	-	-	-	25	25	50	25	
08	1A8	Computer Programming Laboratory	-	-	2	2	1	-	-	-	-	25	25	50	25	
		TOTAL	13	2	10	25	20	-	-	400	-	-	-	200	-	
Note- An Induction Program of Three Weeks duration to be offered to the students at the start of First Year.																
Semester :FIRST/SECOND GROUP B																
THEORY																
01	1B1	Engineering Mathematics II	3	1	-	4	4	80	20	100	40	-	-	-		
02	1B2	Engineering Chemistry	4	-	-	4	4	80	20	100	40	-	-	-		
03	1B3	Basic Electrical Engineering	3	1	-	4	4	80	20	100	40	-	-	-		
04	1B4	Engineering Graphics	3	-	-	3	3	80	20	100	40	-	-	-		
PRACTICALS																
05	1B5	English Laboratory	-	-	4	4	2	-	-	-	-	25	25	50	25	
06	1B6	Engineering Chemistry Laboratory	-	-	2	2	1	-	-	-	-	25	25	50	25	
07	1B7	Basic Electrical Engineering Laboratory	-	-	2	2	1	-	-	-	-	25	25	50	25	
08	1B8	Engineering Graphics Laboratory	-	-	2	2	1	-	-	-	-	25	25	50	25	
		TOTAL	13	2	10	25	20	-	-	400	-	-	-	200	-	
		TOTAL												600		

Note- An Induction Program of Three Weeks duration to be offered to the students at the start of First Year.

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI
 FOUR YEAR DEGREE COURSE IN BACHELOR OF ENGINEERING
 BRANCH: COMPUTER SCIENCE & ENGINEERING - SEMESTER PATTERN (CREDIT GRADE SYSTEM)
 SEMESTER: FOURTH

Sr No	Subject Code	Subject Name	Teaching Scheme				Credit	Examination Scheme									
			Lecture	Tutorial	P/D	Total Hours/Week		Theory			Practical						
								Duration of paper (Hr)	Max Marks Theory Paper	Max Marks College Assessment	Total	Min Passing Marks	External	Internal	Total	Min Passing Marks	
Theory																	
1	4KS01	Artificial Intelligence	3			3	3	3	3	80	20	100	40				
2	4KS02	Data Communication & Networking	3			3	3	3	80	20	100	40					
3	4KS03	Operating System	3			3	3	3	80	20	100	40					
4	4KS04	Microprocessor & Assembly Lang. Prog.	3			3	3	3	80	20	100	40					
5	4KS05	Theory of Computation	3	1		4	4	4	80	20	100	40					
6	4ES06	Environmental Studies *	2			2	2	2	80	20	100	40					
Practicals																	
7	4KS06	Data Communication & Networking Lab			2	2	2	1					25	25	50	25	
8	4KS07	Operating System Lab			2	2	2	1					25	25	50	25	
9	4KS08	Microprocessor & Assembly Lang. Prog. Lab			2	2	2	1					25	25	50	25	
10	4KS09	C Skill-Lab II (#)			2	2	2	1					25	25	50	25	
		Total	17	1	8	26	22				600				200		800

* As per the Ordinance No. 42 of 2005
 # C Skill Lab II - based on technology like -PHP, Web Technology, Raspberry Pi/Arduino, etc. to be decided by Individual Dept. of respective College

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI
 FOUR YEAR DEGREE COURSE IN BACHELOR OF ENGINEERING
 BRANCH: COMPUTER SCIENCE & ENGINEERING - SEMESTER PATTERN (CREDIT GRADE SYSTEM)
 SEMESTER: THIRD

Sr No	Subject Code	Subject Name	Teaching Scheme				Credit	Examination Scheme									
			Lecture	Tutorial	P/D	Total Hours/Week		Theory			Practical						
			Hours per Week				Duratio n of paper (Hr)	Max Marks Theor y Paper	Max Marks College Assessmen t	Total	Min Passin g Marks	Max Marks	Interna l	Externa l	Total	Min Passin g Marks	
Theory																	
1	3KS01	Mathematics-III	3	1		4	4	3	80	20	100	40					
2	3KS02	Discrete Structure & Graph Theory	3			3	3	80	20	100	40						
3	3KS03	Object Oriented Programming	3			3	3	80	20	100	40						
4	3KS04	Data Structures	3			3	3	80	20	100	40						
5	3KS05	Analog & Digital Electronics	3			+3	3	80	20	100	40						
6	4ES06	Environmental Studies *	2			2	0										
Practicals																	
7	3KS06	Object Oriented Programming (Java) Lab			2	2	1							25	25	50	25
8	3KS07	Data Structures Lab			2	2	1							25	25	50	25
9	3KS08	Analog & Digital Electronics Lab			2	2	1							25	25	50	25
10	3KS09	C Skill-Lab I (#)			2	2	1							25	25	50	25
		Total	17	1	8	26	20			500					Total	700	

* As per the Ordinance No. 42 of 2005
 # C Skill Lab I - based on technology like - Python/Django etc. to be decided by individual Dept. of respective College

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI
 FOUR YEAR DEGREE COURSE IN BACHELOR OF ENGINEERING
 BRANCH: COMPUTER SCIENCE & ENGINEERING - SEMESTER PATTERN (CREDIT GRADE SYSTEM)
 SEMESTER: SIXTH

Sr No	Subject Code	Subject Name	Teaching Scheme				Credit	Examination Scheme							
			Lecture	Tutorial	P/D	Total Hours/Week		Duration of paper (Hr)	Max Marks Theory Paper	Max Marks College Assessment	Total	Min Passing Marks	External	Internal	Total
Theory															
1	6KS01	Security Policy & Governance	3			3	3	3	80	20	100	40			
2	6KS02	Design & Analysis of Algorithm	4			4	4	3	80	20	100	40			
3	6KS03	Software Engineering	3			3	3	3	80	20	100	40			
4	6KS04	Professional Elective-II (#)	3			3	3	3	80	20	100	40			
5	6KS05	Open Elective - II (\$)	3			3	3	3	80	20	100	40			
Practicals															
6	6KS06	Design & Analysis of Algorithm Lab			2	2	1					25	25	50	25
7	6KS07	Software Engineering Lab		V	2	2	1					25	25	50	25
8	6KS08	Emerging Technology Lab# II			2	2	1					25	25	50	25
9	6KS09	C Skill Lab IV (*)			2	2	1					25	25	50	25
		Total	16		8	24	20				500			Total	700

Track	# Professional Elective-II
AI	Natural Language Processing
DS	Big Data Analytics
IoT	Sensors & Actuators
Cy-Security	Cryptography

	\$ Open Elective - II
	Computational Biology
	Cyber Law & Ethics
	Intellectual Property Right

Track	Emerging Technology Lab# II
AI	Natural Language Toolkit (NLTK), Spacy, Pytorch-NLP, Natural, Retext, TextBlob
DS	KNIME, Spark, Neo4j, MongoDB, Hive, Storm,
IoT	DevicHub, Zetta, Node-RED, Flutter, M2MLabs Mainspring
CS	Veracrypt, ModSecurity, AdBlocker, CheckshortURL, SPAMfighter, Spambully

* C Skill Lab IV - based on technology like - DevOp to be decided by individual Dept. of respective College
 An Orientation Program of 15 hours duration /MOOC on Indian Constitution to be offered to the students during the Vth Semester
 Open Elective II to be opted from the courses offered by other engineering technology boards of the university /Massive Open Learning courses (MOOC) such as SWAYAM pertaining to the profession

FOUR YEAR DEGREE COURSE IN BACHELOR OF ENGINEERING
BRANCH - COMPUTER SCIENCE & ENGINEERING - SEMESTER PATTERN (CREDIT GRADE SYSTEM)
SEMESTER - SEVENTH

Appendix - E

Sl. No	Subject Code	Subject	TEACHING SCHEME				CREDITS	EXAMINATION SCHEME													
			Lecture	Tutorial	PD	Total HOURS/WEEK		THEORY	THAT	TOTAL	PASSING MARKS	MAX. MARKS	INTERNAL	TOTAL	MIN. PASSING MARKS						
THEORY																					
01	7KS01	Digital Signal Processing	4	-	-	4	4	3	80	20	100	40	25	25	50	25					
02	7KS02	Computer Networks	4	-	-	4	4	3	80	20	100	40	25	25	50	25					
03	7KS03	Design & Analysis of Algorithms	4	-	-	4	4	3	80	20	100	40	-	-	-	-					
04	7KS04	Object Oriented Analysis & Design	4	-	-	4	4	3	80	20	100	40	-	-	-	-					
05	7KS05	Professional Elective I*	4	-	-	4	4	3	80	20	100	40	-	-	-	-					
PRACTICALS / DRAWING / DESIGN																					
06	7KS06	Digital Signal Processing Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25					
07	7KS07	Design & Analysis of Algorithms Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25					
08	7KS08	Object Oriented Analysis & Design Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25					
09	7KS09	Project & Seminar	-	-	2	2	4	-	-	-	-	-	50	50	100	25					
TOTAL			20	8	28	28	27	500	200	700	200	200	200	200	200	200					

Professional Elective I* (i) Computer Graphics (ii) Multimedia Technologies (iii) Web Engineering (iv) Human Computer Interface

Semester EIGHTH

THEORY																
Sl. No	Subject Code	Subject	Lecture	Tutorial	PD	Total HOURS/WEEK	CREDITS	DURATION OF PAPER (hr)	MAX. MARKS THEORY PAPER	MAX. MARKS COLLEGE ASSESSMENT	TOTAL	PASSING MARKS	MAX. MARKS	INTERNAL	TOTAL	MIN. PASSING MARKS
01	8KS01	Artificial Intelligence	3	-	-	3	3	3	80	20	100	40	25	25	50	25
02	8KS02	Embedded Systems	4	-	-	4	4	3	80	20	100	40	-	-	-	-
03	8KS03	Software Engineering	3	-	-	3	3	3	80	20	100	40	-	-	-	-
04	8KS04	Professional Elective II*	3	-	-	3	3	3	80	20	100	40	-	-	-	-
PRACTICALS / DRAWING / DESIGN																
05	8KS05	Artificial Intelligence	-	-	2	2	1	-	-	-	-	-	25	25	50	25
06	8KS06	Embedded Systems	-	-	2	2	1	-	-	-	-	-	25	25	50	25
07	8KS07	Project & Seminar	-	-	6	6	12	-	-	-	-	-	75	75	150	25
TOTAL			13	10	23	27	400	250	650	250	250	250	250	250	250	250

Professional Elective II* (i) Distributed Computing (ii) Mobile Computing (iii) Soft Computing (iv) Network Security

**TWO YEAR POST GRADUATE DEGREE COURSE IN MASTER OF ENGINEERING (FULL TIME)
COMPUTER SCIENCE & INFORMATION TECHNOLOGY
CREDIT GRADE SYSTEM**

Appendix - E

Sl. No.	Subject Code	Subject	TEACHING SEMESTER			TOTAL HOURS	CREDITS	DERIVATION OF PAPERS (Hrs)	MAX. MARKS THEORY PAPER	THEORY		EXAMINATION SCHEME				TOTAL	MIN. PASSING MARKS
			HO	IN	WT					MAX. MARKS COLLEGE	MAX. MARKS ASSIGNMENT	MIN. PASSING MARKS	SUBJECT	EXTERNAL	INTERNAL		
01	IRNM1E1	Advanced Computer Architecture	3	0	0	3	3	80	20	100	40	50	--	--	--	--	
02	IRNM1E2	Distributed Operating System Design	4	0	0	4	4	80	20	100	40	50	--	--	--	--	
03	IRNM1E3	Distributed Database System	4	0	0	4	4	80	20	100	40	50	--	--	--	--	
04	IRNM1E4	Analysis Configuration & Network Computing	4	0	0	4	4	80	20	100	40	50	--	--	--	--	
05	IRNM1E3	Thermal	4	0	0	4	4	80	20	100	40	50	--	--	--	--	
06	IRNM1E6	CSIT Lab-I	0	0	2	2	1	--	--	--	--	--	25	25	50	25	
07	IRNM1E7	CSIT Lab-II	0	0	2	2	1	--	--	--	--	--	25	25	50	25	
08	IRNM1E8	Seminar & Technical Paper Writing	0	1	0	1	1	--	--	--	--	--	--	50	50	25	
TOTAL			19	1	4	24	22			500					150	650	

Executive-I: 1) Expert System Design & Intelligent System 2) Algorithms 3) Information Technology & Management

Sl. No.	Subject Code	Subject	TEACHING SEMESTER			TOTAL HOURS	CREDITS	DERIVATION OF PAPERS (Hrs)	MAX. MARKS THEORY PAPER	THEORY		EXAMINATION SCHEME				TOTAL	MIN. PASSING MARKS
			HO	IN	WT					MAX. MARKS COLLEGE	MAX. MARKS ASSIGNMENT	MIN. PASSING MARKS	SUBJECT	EXTERNAL	INTERNAL		
01	2RNM1E1	Real Time Embedded Systems	3	0	0	3	3	80	20	100	40	50	--	--	--	--	
02	2RNM1E2	Performance Analysis For Imaging Systems	4	0	0	4	4	80	20	100	40	50	--	--	--	--	
03	2RNM1E3	Information Technology & Security	4	0	0	4	4	80	20	100	40	50	--	--	--	--	
04	2RNM1E4	Software Engineering, Testing & Reliability	4	0	0	4	4	80	20	100	40	50	--	--	--	--	
05	2RNM1E3	Thermal	4	0	0	4	4	80	20	100	40	50	--	--	--	--	
06	2RNM1E6	CSIT Lab-III	0	0	2	2	1	--	--	--	--	--	25	25	50	25	
07	2RNM1E7	CSIT Lab-IV	0	0	2	2	1	--	--	--	--	--	25	25	50	25	
08	2RNM1E8	Seminar	0	1	0	1	1	--	--	--	--	--	--	50	50	25	
TOTAL			19	1	4	24	22			500					150	650	

Executive-II: 1) Advanced Computing Techniques 2) Mobile Computing 3) Digital Media Development

Two Year Post Graduate Degree Course in Master of Engineering (Full Time) (CCS)											
Computer Science & Information Technology											
Third Semester											
S.No.	Subject Code	Subject	Lecture	Tutorial	Practical	TOTAL	CREDITS	INTERNAL MARKS	TOTAL	MIN. PASSING MARKS	
01	390A11	SEMINAR AND DISSERTATION	1	1	6	6	6	15	100	100	50
TOTAL			1	1	6	6	6	15	100	100	50
TOTAL											
									100	100	

Fourth Semester											
S.No.	Subject Code	Subject	Lecture	Tutorial	Practical	TOTAL	CREDITS	EXTERNAL MARKS	INTERNAL MARKS	TOTAL	MIN. PASSING MARKS
01	490A11	SEMINAR AND DISSERTATION	1	1	12	12	12	30	100	300	150
TOTAL			1	1	12	12	12	30	100	300	150
TOTAL											
									100	300	
GRAND TOTAL 700											

Semester III

Seminar: Seminar to be delivered on work completed during third semester. 50 internal marks out of 100 will be assessed by a Committee consisting of Head of Department, dissertation guide and subject expert appointed by Principal of the College / Head of University Department. Remaining 50 internal marks will be given by guide based on performance.

Semester IV

Seminar: To be delivered on the complete work of dissertation. 50 internal marks out of 100 will be assessed by a Committee consisting of Head of Department, dissertation guide and subject expert appointed by Principal of the College / Head of University Department. Remaining 50 internal marks will be given by guide based on performance.

Note: Thesis of dissertation work must be submitted to the University on or before 30th April (for regular exam.) and 30th November (for supplementary exam). Thesis of Dissertation work be submitted with late fee to the University up to 31 May (for regular exam.) and 31st December (for supplementary exam.). The late fee shall be charged as in case of Examination form.

- Notes:** 1. Student should fill the examination form in the beginning of III semester jointly for III & IV semester.
 2. Single mark sheet for III & IV semester together will be given to the student.

TWO YEAR POST GRADUATE DEGREE COURSE IN MASTER OF ENGINEERING (FULL TIME)
 CIVIL ENGINEERING (STRUCTURAL ENGINEERING)
 CREDIT GRADE SYSTEM
 FIRST SEMESTER

Sr No.	Name Of the subject	Hours/Week		Duration (Hrs)	Credits	THEORY		PRACTICAL						
		L	T/P			Max. Marks Theory Papers	Max. Marks College assessment	Max. Marks Theory Papers	Max. Marks College assessment					
1	ISFSE1 Introduction to Earthquake And Retrofitting of Structures	4	-	3	4	80	20	100	40	10	-	-	-	-
2	ISFSE2 Theory of Elasticity And Elastic Stability	4	-	3	4	80	20	100	40	10	-	-	-	-
3	ISFSE3 Matrix Methods of Structural Analysis	4	-	3	4	80	20	100	40	10	-	-	-	-
4	ISFSE4 Structural Dynamics	4	-	3	4	80	20	100	40	10	-	-	-	-
5	ISFSE5 Earthquake Resistant Design of Reinforced Concrete Structures	4	-	4	4	80	20	100	40	10	-	-	-	-
6	ISFSE6 Earthquake Resistant Design of Reinforced Concrete Structures - Lab	-	-	2	1	-	-	-	-	-	25	25	50	25
7	ISFSE7 Computer Aided Analysis & Design of Structures - Lab	-	-	2	2	-	-	-	-	-	25	25	50	25
TOTAL		20	-	4	23	-	-	500	-	-	25	25	50	25

SECOND SEMESTER

TOTAL : 600

Sr No.	Name Of the subject	Hours/Week		Duration (Hrs)	Credits	THEORY		PRACTICAL						
		L	T/P			Max. Marks Theory Papers	Max. Marks College assessment	Max. Marks Theory Papers	Max. Marks College assessment					
1	2SFSSE1 Finite Element Method	4	-	3	4	80	20	100	40	10	-	-	-	-
2	2SFSSE2 Advanced Design of Steel Structures	4	-	4	4	80	20	100	40	10	-	-	-	-
3	2SFSSE3 Theory of Plates and Shells	4	-	3	4	80	20	100	40	10	-	-	-	-
4	2SFSSE4 Design of Prestressed Concrete structures	4	-	4	4	80	20	100	40	10	-	-	-	-
5	2SFSSE5 Elective*	4	-	4	4	80	20	100	40	10	-	-	-	-
6	2SFSSE6 Adv. Design of Steel Structures - Lab	-	-	2	1	-	-	-	-	-	25	25	50	25
7	2SFSSE7 Design of Prestressed Concrete Structures - Lab	-	-	2	1	-	-	-	-	-	25	25	50	25
TOTAL		20	-	4	22	-	-	500	-	-	25	25	50	25

TOTAL : 600

Elective* - (1) Substructures and Foundation Design (2) Earthquake Resistant Design of Bridges and Dams (3) Experimental Stress Analysis (4) Design of Environmental Structures

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Third Semester										
Sr. No.	Subject Code	Subject	Lecture	Tutorial	Practical	Total	CREDITS	INTERNAL MARKS	TOTAL	MIM. PASSING MARKS
01	3SFSE 1	SEMINAR AND DISSERTATION	-	-	6	6	15	100	100	50
TOTAL			-	-	6	6	15			
TOTAL										100

Fourth Semester											
Sr. No.	Subject Code	Subject	Lecture	Tutorial	Practical	Total	CREDITS	EXTERNAL MARKS	INTERNAL MARKS	TOTAL	MIM. PASSING MARKS
01	4SFSE 1	SEMINAR AND DISSERTATION	-	-	12	12	30	200	100	300	150
TOTAL			-	-	12	12	30			300	
TOTAL										300	
GRAND TOTAL 1600											

Semester III

Seminar : Seminar to be delivered on work completed during third semester. 50 internal marks out of 100 will be assessed by a Committee consisting of Head of Department, dissertation guide and subject expert appointed by Principal of the College / Head of University Department. Remaining 50 internal marks will be given by guide based on performance.

Dissertation : Title of the dissertation work to be submitted to the University on or before 15th Sept. (for regular examination) and 15th of February (for supplementary exam.)

Semester IV

Seminar : to be delivered on the complete work of dissertation. 50 internal marks out of 100 will be assessed by a Committee consisting of Head of Department, dissertation guide and subject expert appointed by Principal of the College / Head of University Department. Remaining 50 internal marks will be given by guide based on performance.

Note : Thesis of dissertation work must be submitted to the University on or before 30th April (for regular exam.) and 30th November (for supplementary exam.). Thesis of Dissertation work be submitted with late fee to the University upto 31 May (for regular exam.) and 31st December (for supplementary exam.). The late fee shall be charged as in case of Examination form.

Notes : 1. Student should fill the examination form in the beginning of III semester jointly for III & IV semester.

2. Single marksheet for III & IV semester together will be given to the student.

Four Year Degree Course in Bachelor of Engineering Branch: **ELECTRICAL ENGINEERING**
Semester Pattern (Choice Based Credit Grade System)

SEMESTER: THIRD

Sr. No.	Subject Code	Subject	TEACHING SCHEME				CREDITS	EXAMINATION SCHEME										
			HOURS / WEEK			Duration Of Paper (hr.)		THEORY					PRACTICAL					
			Lecture	Tutorial	P/D			Max. Marks Theory Paper	Internal Marks	Total	Min. Passing Marks	Max. Marks		Total	Min. Passing Marks			
01	3EE01	Engineering Mathematics-III	3	1	1	4	4	3	80	20	100	40	--	--	--	--	--	--
02	3EE02	Electrical Circuit Analysis	2	1	1	3	3	3	80	20	100	40	--	--	--	--	--	--
03	3EE03	Theoretical Machines - I	3	--	1	3	3	3	80	20	100	40	--	--	--	--	--	--
04	3EE04	Energy Sources & Generation	3	--	1	3	3	3	80	20	100	40	--	--	--	--	--	--
05	3EE05	Electronic Devices & Circuits	3	--	1	3	3	3	80	20	100	40	--	--	--	--	--	--
06	4ES06	Environmental Studies	2	--	1	2	--	--	--	--	--	--	--	--	--	--	--	--
PRACTICE V/S DRAWING / DESIGN																		
07	3EE06	Electrical Circuit Analysis - lab.	--	--	2	2	--	--	--	--	--	--	25	25	50	25	--	--
08	3EE07	Electrical Machines - I - lab.	--	--	2	2	--	--	--	--	--	--	25	25	50	25	--	--
09	3EE08	Electronic Devices & Circuits - lab.	--	--	2	2	1	--	--	--	--	--	25	25	50	25	--	--
10	3EE09	Electrical Technology - lab.	--	--	2	2	1	--	--	--	--	--	50	50	50	25	--	--
Total			16	2	8	26	29	--	--	500	--	--	200	700	--	--	25	--

Note: The Examination of the subject Environmental Science shall be conducted in IV Semester. (As per Ordinance of 4/2/2005)

Head of department
Electrical Engineering
Sant Gadge Baba Amravati University

SEMESTER : FOURTH

Sr. No.	Subject Code	Subject	TEACHING SCHEME				CREDITS	EXAMINATION SCHEME														
			HOURS / WEEK			Total HOURS/WEEK		THEORY					PRACTICAL									
			Lecture	Tutorial	P/D			Duration Of Paper (Hrs)	Max. Marks Theory Paper	Internal Marks	Total	Min. Passing Marks	Max. Marks		Total	Min. Passing Marks						
THEORY																						
01	4EE01	Electromagnetic Fields	2	1	--	3	3	3	80	20	100	40	--	--	--	--	--					
02	4EE02	Electrical Measurements & Instrumentation	3	--	--	3	3	3	80	20	100	40	--	--	--	--	--					
03	4EE03	Power Systems - I	4	--	--	4	4	3	80	20	100	40	--	--	--	--	--					
04	4EE04	Analog & Digital Circuits	3	1	--	4	4	3	80	20	100	40	--	--	--	--	--					
05	4EE05	Signals & Systems	3	--	--	3	3	3	80	20	100	40	--	--	--	--	--					
06	4ES06	**Environmental Studies	2	--	--	2	2	3	80	20	100	40	--	--	--	--	--					
PRACTICALS / DRAWING / DESIGN																						
07	4EE06	Electrical Measurements & Instrumentation - lab.	--	--	2	2	1	--	--	--	--	--	25	25	50	25	25					
08	4EE07	Power Systems - I - lab.	--	--	2	2	1	--	--	--	--	--	25	25	50	25	25					
09	4EE08	Analog & Digital Circuits - lab.	--	--	2	2	1	--	--	--	--	--	25	25	50	25	25					
10	4EE09	Electrical Technology - lab.	--	--	2	2	1	--	--	--	--	--	50	--	50	25	25					
Practicals			Total				17	0	8	26	22	--	--	500	--	--	200	--				
TOTAL																						
													700			700						

Note: **The Examination of the Subject Environmental Science shall be conducted in IV Semester. [As per Ordinance of 42/ 2005]

LI
TEC
NG

Head of Dept
Electrical Engineering
Santgadga

Sr. No.	Subject Code	Subject	TEACHING SCHEME			CREDITS	EXAMINATION SCHEME								
			Lecture	Tutorial	P/D		Duration Of Paper (Hrs.)	Max. Marks Theory Paper	Internal Marks	Total	Min. Passing Marks	PRACTICAL		Total	Min. Passing Marks
												HOURLS / WEEK	Total HOURS/WEEK		
THEORY															
01	SEEE01	Control Systems	4	--	--	4	3	80	20	100	40	--	--	--	--
02	SEEE02	Microprocessor & Microcontroller	3	--	--	3	3	80	20	100	40	--	--	--	--
03	SEEE03	Electrical Machines - II	3	--	--	3	3	80	20	100	40	--	--	--	--
04	SEEE04	Professional Elective-I (PE-I)	3	--	--	3	3	80	20	100	40	--	--	--	--
05	SEEE05	Open Elective - I (OE-I)	3	--	--	3	3	80	20	100	40	--	--	--	--
PRACTICALS / DRAWING / DESIGN															
06	SEEE06	Control Systems - Lab.	--	--	2	2	--	--	--	--	--	25	25	50	25
07	SEEE07	Microprocessor & Microcontroller Lab.	--	--	2	2	--	--	--	--	--	25	25	50	25
08	SEEE08	Electrical Machines - II - Lab.	--	--	2	2	--	--	--	--	--	25	25	50	25
09	SEEE09	Electrical Technology - Lab. (ECT)	--	--	2	2	--	--	--	--	--	25	25	50	25
Total			16	0	8	24	20	--	--	500	--	--	--	200	25
TOTAL														700	--

Prof. Elective - I : (i) Power System Operation & Control (ii) Electrical Engineering Materials (iii) Electronic Communication Theory

Open Elective - I : (i) Electrical Drives (ii) Power Plant Engineering

An Orientation Program of 15 Hours duration/ MOOCs on Indian Constitution to be offered during V semester.

Open Elective-I to be opted from the University's faculty of Engineering & Technology offered inter-disciplinary courses or MOOCs courses pertaining to the Engineering Profession

SEMESTER - SIXTH

Sr. No.	Subject Code	Subject	TEACHING SCHEME				CREDITS	EXAMINATION SCHEME										
			HOURS / WEEK			Total HOURS/WEEK		THEORY					PRACTICAL					
			Lecture	Tutorial	P/D			Duration Of Paper (Hr.)	Max. Marks Theory Paper	Internal Marks	Total	Min. Passing Marks	Max. Marks	Int.	Ext.	Total	Min. Passing Marks	
01	6EE01	Power Electronics	4	--	--	4	4	3	80	20	100	40	--	--	--	--	--	--
02	6EE02	Power Systems - II	3	--	--	3	3	3	80	20	100	40	--	--	--	--	--	--
03	6EE03	Computer Aided Electrical Machine Design	3	--	--	3	3	3	80	20	100	40	--	--	--	--	--	--
04	6EE04	Prof. Elective - II (PE-II) <i>(IEES)</i>	3	--	--	3	3	3	80	20	100	40	--	--	--	--	--	--
05	6EE05	Open Elective - II (OE-II) <i>Power Tech.</i>	3	--	--	3	3	3	80	20	100	40	--	--	--	--	--	--
PRACTICALS / DRAWING / DESIGN																		
06	6EE06	Power Electronics - lab.	--	--	2	2	1	--	--	--	--	--	--	--	--	--	25	25
07	6EE07	Power Systems - II - lab.	--	--	2	2	1	--	--	--	--	--	--	--	--	--	25	25
08	6EE08	Computer Aided Electrical Machine Design - lab.	--	--	2	2	1	--	--	--	--	--	--	--	--	--	25	25
09	6EE09	Computer Technology - lab.	--	--	2	2	1	--	--	--	--	--	--	--	50	--	50	25
Total			16	0	8	24	20	--	--	--	500	--	--	--	200	--	700	--

Prof. Elective - I : (i) Advanced Control Systems (ii) Digital Communication Systems (iii) Industrial Electrical Systems
 Open Elective - II (i) ENERGY AUDIT & MANAGEMENT (ii) ELECTRICAL ESTIMATION & COSTING *(Non-conventional Energy System) mech*
 An Orientation Program of 15 Hours duration. MOOCs on Indian Constitution to be offered during V semester.
 Open Elective-I to be opted from the University's Faculty of Engineering & Technology offered inter-disciplinary courses or MOOCs courses pertaining to the Engineering Profession.

FOUR YEAR DEGREE COURSE IN BACHELOR OF ENGINEERING
BRANCH: ELECTRICAL ENGINEERING - SEMESTER PATTERN (CREDIT GRADE SYSTEM)
SEMESTER - SEVENTH

			TEACHING SCHEME					EXAMINATION SCHEME								
Sr. No.	Subject Code	Subject	HOURS / WEEK			Total HOURS/WEEK	CREDITS	THEORY					PRACTICAL			
			Lecture	Tutorial	P/D			DURATION OF PAPER (Hr.)	MAX. MARKS THEORY PAPER	MAX. MARKS COLLEGE ASSESSMENT	TOTAL	MIN. PASSING MARKS	MAX. MARKS		TOTAL	MIN. PASSING MARKS
												EXTERNAL	INTERNAL			
THEORY																
01	7EE01	Control System II	4	-	-	4	4	3	80	20	100	40	-	-	-	-
02	7EE02	Power System Operation & Control	4	-	-	4	4	3	80	20	100	40	-	-	-	-
03	7EE03	Electrical Power - II	4	-	-	4	4	3	80	20	100	40	-	-	-	-
04	7EE04	Switchgear & Protection	4	-	-	4	4	3	80	20	100	40	-	-	-	-
05	7EE05	Professional Elective - I *	4	-	-	4	4	3	80	20	100	40	-	-	-	-
PRACTICALS / DRAWING / DESIGN																
06	7EE06	Project & Seminar	-	-	2	2	4	-	-	-	-	-	0	50	50	25
07	7EE07	Electrical Power - II -Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
08	7EE08	Switchgear & Protection -Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
TOTAL			20	-	6	26	26				500				150	
														TOTAL	650	

* Professional Elective - I 1] Process Control System 2] Wind Electrical Systems 3] Computer Methods in Power System Analysis 4] Artificial Intelligence

Semester : Eighth																
THEORY																
Sr. No.	Subject Code	Subject	Lecture	Tutorial	P/D	Total HOURS/WEEK	CREDITS	DURATION OF PAPER (Hr.)	MAX. MARKS THEORY PAPER	MAX. MARKS COLLEGE ASSESSMENT	TOTAL	MIN. PASSING MARKS	EXTERNAL	INTERNAL	TOTAL	MIN. PASSING MARKS
01	8EE01	Power System Stability	3	-	-	3	3	3	80	20	100	40	-	-	-	-
02	8EE02	High Voltage Engineering	4	-	-	4	4	3	80	20	100	40	-	-	-	-
03	8EE03	Digital Signal Processing	4	-	-	4	4	3	80	20	100	40	-	-	-	-
04	8EE04	Professional Elective - II**	3	-	-	3	3	3	80	20	100	40	-	-	-	-
PRACTICALS / DRAWING / DESIGN																
05	8EE05	Project & Seminar	-	-	6	6	12	-	-	-	-	-	75	75	150	25
06	8EE06	Digital Signal Processing -Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
TOTAL			14	-	8	22	27				400				200	
														TOTAL	600	

** Professional Elective - II 1] Electric Drives & Control 2] Power Quality 3] Power System Management 4] Generalised Machine Theory


Head of department
Electrical Engineering
Sanmati Engineering College
WASHIM

**FOUR YEAR B. E. DEGREE COURSE IN MECHANICAL ENGINEERING
SEMESTER PATTERN (CREDIT GRADE SYSTEM)**

SEMESTER : SEVENTH

Sr. No.	Subject Code	Subject	TEACHING SCHEME				EXAMINATION SCHEME										
			HOURS / WEEK			CREDITS	THEORY				PRACTICAL						
			Lecture	Tutorial	P/D		Total HOURS/WEEK	DURATION OF PAPER (Hrs.)	MAX. MARKS THEORY PAPER	MAX. MARKS COLLEGE ASSESSMENT	TOTAL	MIN. PASSING MARKS	MAX. MARKS EXTERNAL	MAX. MARKS INTERNAL	TOTAL	MIN. PASSING MARKS	
THEORY																	
01	7ME01	Machine Design & Drawing-II	3	-	-	3	3	4	80	20	100	40	-	-	-	-	-
02	7ME02	Energy Conversion-II	3	1	-	4	4	3	80	20	100	40	-	-	-	-	-
03	7ME03	Industrial Management and Costing	3	1	-	4	4	3	80	20	100	40	-	-	-	-	-
04	7ME04	Automation Engineering	3	1	-	4	4	3	80	20	100	40	-	-	-	-	-
05	7ME05	Professional Elective-I	3	1	-	4	4	3	80	20	100	40	-	-	-	-	-
PRACTICALS / DRAWING / DESIGN																	
06	7ME06	Project & Seminar	-	-	2	2	4	-	-	-	-	-	-	50	50	25	25
07	7ME07	Machine Design & Drawing-II-Lab.	-	-	2	2	1	-	-	-	-	-	25	25	50	25	25
08	7ME08	Energy Conversion-II-Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25	25
09	7ME09	Automation Engineering-Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25	25
10	7ME10	Professional Elective-I - Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25	25
		Total	15	4	10	29	27				500				250		
Professional Elective-I (1) Non Conventional Energy System (2) Tool Engineering (3) Artificial Intelligence & Expert Systems (4) Mechanics																	
GRAND TOTAL : 750																	

SEMESTER : EIGHTH

Sr. No.	Subject Code	Subject	TEACHING SCHEME				EXAMINATION SCHEME										
			HOURS / WEEK			CREDITS	THEORY				PRACTICAL						
			Lecture	Tutorial	P/D		Total HOURS/WEEK	DURATION OF PAPER (Hrs.)	MAX. MARKS THEORY PAPER	MAX. MARKS COLLEGE ASSESSMENT	TOTAL	MIN. PASSING MARKS	MAX. MARKS EXTERNAL	MAX. MARKS INTERNAL	TOTAL	MIN. PASSING MARKS	
THEORY																	
01	8ME01	Elective-II	3	-	-	3	3	3	80	20	100	40	-	-	-	-	-
02	8ME02	Elective-III	3	-	-	3	3	3	80	20	100	40	-	-	-	-	-
03	8ME03	I.C. Engines	3	-	-	3	3	3	80	20	100	40	-	-	-	-	-
04	8ME04	Operations Research Techniques	3	-	-	3	3	3	80	20	100	40	-	-	-	-	-
PRACTICALS / DRAWING / DESIGN																	
05	8ME05	Project & Seminar	-	-	6	6	12	-	-	-	-	-	75	75	150	75	75
06	8ME06	Professional Elective-III-Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25	25
07	8ME07	I.C. Engines-Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25	25
08	8ME08	Operations Research Techniques-Lab	-	-	2	2	2	-	-	-	-	-	25	25	50	25	25
		Total	12	-	12	24	27				400				300		
Professional Elective-II (1) Automobile Engineering (2) Production Planning & Control (3) Management Information Systems (4) Advanced Manufacturing Systems																	
Professional Elective-III (1) Refrigeration & Air Conditioning (2) Machine Tool Design (3) Finite Element Methods (4) Robotics																	
GRAND TOTAL : 700																	

Four Year Degree Course in Bachelor of Engineering Branch: MECHANICAL ENGINEERING
Semester Pattern (Choice Based Credit Grade System)

SEMESTER : THIRD

Sr. No.	Subject Code	Subject	TEACHING SCHEME				CREDITS	EXAMINATION SCHEME									
			HOURS / WEEK			Total HOURS/WEEK		THEORY					PRACTICAL				
			Lecture	Tutorial	P/D			Duration Of Paper (Hr.)	Max. Marks Theory Paper	Internal Marks	Total	Min. Passing Marks	Max. Marks		Total	Min. Passing Marks	
											Int.	Ext.					
THEORY																	
01	3ME01	Mathematics-III	3	1	--	4	4	3	80	20	100	40	--	--	--	--	
02	3ME02	Manufacturing Processes	3	--	--	3	3	80	20	100	40	--	--	--	--		
03	3ME03	Mechanics of Materials	3	--	--	3	3	80	20	100	40	--	--	--	--		
04	3ME04	Engineering Thermodynamics	3	--	--	3	3	80	20	100	40	--	--	--	--		
05	3ME05	Fluid Mechanics	3	--	--	3	3	80	20	100	40	--	--	--	--		
06	4ES06	**Environmental Studies	2	--	--	2	--	--	--	--	--	--	--	--	--		
PRACTICALS / DRAWING / DESIGN																	
07	3ME07	Manufacturing Processes- lab.	--	--	2	2	1	--	--	--	--	25	25	50	25		
08	3ME08	Mechanics of Materials- lab.	--	--	2	2	1	--	--	--	--	25	25	50	25		
09	3ME09	Fluid Mechanics- lab.	--	--	2	2	1	--	--	--	--	25	25	50	25		
10	3ME10	Machine Drawing- lab.	--	--	2	2	1	--	--	--	--	25	25	50	25		
Total																	
			17	1	8	26	20	--	--	--	500	--	--	25	25	200	--
Grand Total															700		

Note: **The Examination of the Subject Environmental Studies shall be conducted in IV Semester.

SEMESTER : FOURTH

Sr. No.	Subject Code	Subject	TEACHING SCHEME				EXAMINATION SCHEME										
			HOURS/ WEEK			Total HOURS/WEEK	CREDITS	THEORY					PRACTICAL				
			Lecture	Tutorial	P/D			Duration Of Paper (Hr.)	Max. Marks Theory Paper	Internal Marks	Total	Min. Passing Marks	Max. Marks	Int.	Ext.	Total	Min. Passing Marks
THEORY																	
01	4ME01	Material Science	3	--	--	3	3	80	20	100	40	--	--	--	--		
02	4ME02	Energy Conversion - 1	3	1	--	4	3	80	20	100	40	--	--	--	--		
03	4ME03	Manufacturing Technology	3	--	--	3	3	80	20	100	40	--	--	--	--		
04	4ME04	Basic Electrical Drives & Control	3	--	--	3	3	80	20	100	40	--	--	--	--		
05	4ME05	Hydraulic & Pneumatic Systems	3	--	--	3	3	80	20	100	40	--	--	--	--		
06	4ES06	**Environmental Studies	2	--	--	2	3	80	20	100	40	-	-	-	-		
PRACTICALS / DRAWING / DESIGN																	
07	4ME07	Material Science-lab	--	--	2	2	--	--	--	--	--	25	25	50	25		
08	4ME08	Manufacturing Technology-lab	--	--	2	2	--	--	--	--	--	25	25	50	25		
09	4ME09	Basic Electrical Drives & Control -lab	--	--	2	2	--	--	--	--	--	25	25	50	25		
10	4ME10	Hydraulic & Pneumatic Systems-lab	--	--	2	2	--	--	--	--	--	25	25	50	25		
			Total			17	1	8	26	22	--	--	500	--	--	200	700

Note: **The Examination of Mandatory Subject Environmental Science shall be conducted in IV Semester.

SEMESTER : FIFTH														
Sr. No.	Subject Code	Subject	TEACHING SCHEME			CREDITS	EXAMINATION SCHEME							
			Lecture	Tutorial	P/D		Total HOURS/WEEK	THEORY		PRACTICAL				
			HOURS/WEEK				Duration Of Paper (Hr)	Max. Marks Theory Paper	Internal Marks	Total	Min. Passing Marks	Max. Marks	Total	Min. Passing Marks
												Int.	Ext.	
THEORY														
01	5ME01	Heat Transfer	3	--	--	3	3	80	20	100	40	--	--	--
02	5ME02	Metrology & Quality Control	3	--	--	3	3	80	20	100	40	--	--	--
03	5ME03	Kinematics of Machines	3	1	--	4	3	80	20	100	40	--	--	--
04	5ME04	Measurement Systems	3	--	--	3	3	80	20	100	40	--	--	--
05	5ME05	Open Elective - I(OE-I)	3	--	--	3	3	80	20	100	40	--	--	--
PRACTICALS / DRAWING / DESIGN														
06	5ME06	Heat Transfer- lab	--	--	2	2	1	--	--	--	--	25	25	50
07	5ME07	Metrology & Quality Control- lab	--	--	2	2	1	--	--	--	--	25	25	50
08	5ME08	Kinematics of Machines- lab	--	--	2	2	1	--	--	--	--	25	25	50
09	5ME09	Measurement Systems -lab	--	--	2	2	1	--	--	--	--	25	25	50
Total			15	1	8	24	20	--	--	500	--	--	--	200
Grand Total													700	--

Open Elective – I (For other Disciplines) : (i) Production Management (ii) Manufacturing Techniques

An Orientation Program of 15 Hours duration / MOOCs on Advanced Courses like Machine learning, 3-D Printing, Virtual Reality, Supply Chain Management, Numerical Computation for Mechanical Engineers, Bio-mechanics, Fundamentals of nano-Engineering, Micro-Electro Mechanical Systems, Nano-to-Macro Transport Processes, Fundamentals of Photo Volatics Machine Tools etc. be offered during V semester.

Open Elective-1 to be opted from the University's faculty of Engineering & Technology offered inter-disciplinary courses or MOOCs courses pertaining to the Engineering Profession.

SEMESTER : SIXTH

Sr. No.	Subject Code	Subject	TEACHING SCHEME			CREDITS	Duration Of Paper (Hr.)	THEORY			PRACTICAL					
			Lecture	Tutorial	P/D			Total HOURS/WEEK	Max. Marks Theory Paper	Internal Marks	Total	Min. Passing Marks	Max. Marks		Total	Min. Passing Marks
													Int.	Ext.		
THEORY																
01	6ME01	Design of Machine Elements	3	--	--	3	3	80	20	100	40	--	--	--	--	
02	6ME02	Dynamics of Machines	3	1	--	4	3	80	20	100	40	--	--	--	--	
03	6ME03	Control System Engineering	3	--	--	3	3	80	20	100	40	--	--	--	--	
04	6ME04	Prof. Elective - I	3	--	--	3	3	80	20	100	40	--	--	--	--	
05	6ME05	Open Elective - II	3	--	--	3	3	80	20	100	40	--	--	--	--	
PRACTICALS / DRAWING / DESIGN																
06	6ME06	Design of Machine Elements- lab.	--	--	2	2	--	--	--	--	--	25	25	50	25	
07	6ME07	Dynamics of Machines- lab.	--	--	2	2	--	--	--	--	--	25	25	50	25	
08	6ME08	Prof. Elective - I - lab.	--	--	2	2	--	--	--	--	--	25	25	50	25	
09	6ME09	Research Skills - lab.	--	--	2	2	--	--	--	--	--	25	25	50	25	
Total			15	1	8	24	20	--	--	500	--	--	200	200	--	
Grand Total													700	--		

An Orientation Program of 15 Hours duration / MOOCs on Entrepreneurship Development to be offered during VI Semester.

6ME04: Prof. Elect. (I) : (i) Tool Engineering (ii) Non- Conventional Energy Sources (iii) Computer Aided Design & Simulation

6ME05: Open Elect. (II) [For other Disciplines] : (i) Non- Conventional Energy Sources (ii) Automobile Engineering

Open Elective -II to be opted from the University's faculty of Engineering & Technology offered inter-disciplinary courses or MOOCs courses pertaining to the Engineering Profession.

Four Year Degree Course in Bachelor of Engineering Branch: CIVIL ENGINEERING
Semester Pattern (Choice Based Credit Grade System)
SEMESTER : THIRD

Sr. No.	Subject Code	Subject	TEACHING SCHEME				EXAMINATION SCHEME										
			HOURS / WEEK			Total HOURS/WEEK	CREDITS	THEORY					PRACTICAL				
			Lecture	Tutorial	P/D			Duration Of Paper (Hr.)	Max. Marks Theory Paper	Internal Marks	Total	Min. Passing Marks	Max. Marks		Total	Min. Passing Marks	
								Int.		Ext.							
THEORY																	
01	3CE01	Engineering Mathematics-III	3	1	--	4	4	3	80	20	100	40	--	--	--		
02	3CE02	Strength of Materials	3	--	--	3	3	3	80	20	100	40	--	--	--		
03	3CE03	Building Construction & Engineering Geology	3	--	--	3	3	3	80	20	100	40	--	--	--		
04	3CE04	Transportation Engineering	3	--	--	3	3	3	80	20	100	40	--	--	--		
05	3CE05	Concrete Technology & RCC	3	--	--	3	3	3	80	20	100	40	--	--	--		
06	4ES06	**Environmental Science	2	--	--	2	--	--	--	--	--	--	-	-	-		
PRACTICALS / DRAWING / DESIGN																	
07	3CE07	Strength of Materials- lab	--	--	2	2	1	--	--	--	--	25	25	50	25		
08	3CE08	Building Construction & Engineering Geology-lab	--	--	2	2	1	--	--	--	--	25	25	50	25		
09	3CE09	Transportation Engineering-lab	--	--	2	2	1	--	--	--	--	25	25	50	25		
10	3CE10	Concrete Technology & RCC-lab	--	--	2	2	1	--	--	--	--	25	25	50	25		
Total			17	1	8	26	20	--	--	--	500	--	--	200	--		
Grand Total														700			

Note: **The Examination of Mandatory Subject Environmental Science shall be conducted in IV Semester.

SEMESTER : FOURTH

Sr. No.	Subject Code	Subject	TEACHING SCHEME				CREDITS	EXAMINATION SCHEME				PRACTICAL			
			HOURS / WEEK			Total HOURS/WEEK		THEORY				Max. Marks		Total	Min. Passing Marks
			Lecture	Tutorial	P/D			Duration Of Paper (Hrs.)	Max. Marks Theory Paper	Internal Marks	Total	Min. Passing Marks	Max. Marks		
THEORY															
01	4CE01	Building Planning Designing & CAD	3	--	--	3	3	4	80	20	100	40	--	--	--
02	4CE02	Hydrology & Water Resource Enge.	3	--	--	3	3	3	80	20	100	40	--	--	--
03	4CE03	Surveying	3	--	--	3	3	3	80	20	100	40	--	--	--
04	4CE04	Geotechnical Engineering- 1	3	--	--	3	3	3	80	20	100	40	--	--	--
05	4CE05	Structural Analysis - 1	3	1	--	4	3	3	80	20	100	40	--	--	--
06	4ES06	**Environmental Science	2	--	--	2	3	3	80	20	100	40	-	-	-
PRACTICALS / DRAWING / DESIGN															
07	4CE07	Building Planning Designing & CAD -lab	--	--	2	2	--	--	--	--	--	25	25	50	25
08	4CE08	Hydrology & Water Resource Enge- lab.	--	--	2	2	--	--	--	--	--	25	25	50	25
09	4CE09	Surveying - lab.	--	--	2	2	--	--	--	--	--	25	25	50	25
10	4CE10	Geotechnical Engineering- 1-lab.	--	--	2	2	--	--	--	--	--	25	25	50	25
Total			17	1	8	26	22	--	--	--	500	--	--	200	--
Grand Total														700	

Note: **The Examination of Subject Environmental Science shall be conducted in IV Semester.

SEMESTER : SIXTH

Sr. No.	Subject Code	Subject	TEACHING SCHEME				CREDITS	EXAMINATION SCHEME							
			HOURS / WEEK		Total HOURS/WEEK	THEORY			PRACTICAL						
			Lecture	Tutorial		P/D		Duration Of Paper (Hr.)	Max. Marks Theory Paper	Internal Marks	Total	Min. Passing Marks	Max. Marks Int. Ext.	Total	Min. Passing Marks
THEORY															
01	6CE01	Design of Steel Structures	3	1	--	4	4	3	80	20	100	40	--	--	--
02	6CE02	Environmental Engineering - I	3	--	--	3	3	80	20	100	40	--	--	--	--
03	6CE03	Fluid Mechanics	3	--	--	3	3	80	20	100	40	--	--	--	--
04	6CE04	Prof. Elective - II	3	--	--	3	3	80	20	100	40	--	--	--	--
05	6CE05	Open Elective - II	3	--	--	3	3	80	20	100	40	--	--	--	--
PRACTICALS / DRAWING / DESIGN															
06	6CE06	Design of Steel Structures-lab.	--	--	2	2	1	--	--	--	--	25	25	50	25
07	6CE07	Environmental Engineering - I-lab	--	--	2	2	1	--	--	--	--	25	25	50	25
08	6CE08	Fluid Mechanics-lab.	--	--	2	2	1	--	--	--	--	25	25	50	25
09	6CE09	Mini Project	--	--	2	2	1	--	--	--	--	25	25	50	25
Total			15	1	8	24	20	--	--	--	500	--	--	200	--
Grand Total													700		

Note : i) Open Elective – II to be opted from the Courses offered by the other Engineering & Technology courses from the College / Depts. of the University.

ii) Students need to do compulsory Two (2) weeks Internship after 6th Semester and that shall be monitored by allotted Final year Project Guides.

6CE04 : PE (II) : (i) Advanced Construction Materials (ii) Geographic Information Systems & Science (iii) Masonry Structures (iv) Solid & Hazardous Waste Management
(v) Traffic Engineering & Management

6CE05 : OE (II) : (i) Environmental Management (ii) Human Resource Development & Organizational Behavior (iii) Introduction to Earthquake Engineering

