

1.2.1 Percentage of new courses introduced of the total number of courses across all programs offered during the last five years

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**SCHEME OF EXAMINATION FOR
B.E. FIRST YEAR (All Branches of Engineering)
(SEMESTER – I)**

Sr. No.	Subject	Work load				Credit				Marks				Total Marks
		Theory		Practical		Theory		Practical		Sessional	Univ.	Sessional	Univ.	
		L	P	T	Total	L	P	T	Total					
1.	Applied Mathematics I	4	-	1	5	4	-	1	5	20	80	-	-	100
2.	Engineering Physics	2	2	1	5	2	1	1	4	10	40	25	25	100
3.	Engineering Chemistry	2	2	1	5	2	1	1	4	10	40	25	25	100
4.	Basic Electrical Engineering	2	2	1	5	2	1	1	4	10	40	25	25	100
5.	Basic Civil Engineering	2	-	1	3	2	-	1	3	10	40	-	-	50
6.	Engineering Graphics – I	2	2	1	5	2	1	1	4	10	40	25	25	100
7.	Communication Skills	-	2	-	2	-	2	-	2	-	-	25	25	50
8.	Computational Skills	-	2	-	2	-	2	-	2	-	-	25	-	25
	Total	14	12	06	32	14	08	06	28	70	280	150	125	625

Note:

- 1) The diploma holder students seeking admission to direct second year B.E. and B.Sc. students seeking admission to B.E. First year will be exempted from appearing in examinations of Applied Mathematics I and Applied Mathematics II papers.
- 2) The students of B.E. Part time will be exempted from appearing in examination of Applied Mathematics I and Applied Mathematics II papers.

**SCHEME OF EXAMINATION FOR
B.E. FIRST YEAR (All Branches of Engineering)
(SEMESTER – II)**

Sr. No.	Subject	Work load				Credit				Marks				Total Marks
		Theory		Practical		Theory		Practical		Sessional	Univ.	Sessional	Univ.	
		L	P	T	Total	L	P	T	Total					
1.	Applied Mathematics – II	4	-	1	5	4	-	1	5	20	80	-	-	100
2.	Advanced Physics	2	2	1	5	2	1	1	4	10	40	25	25	100
3.	Materials Chemistry	2	2	1	5	2	1	1	4	10	40	25	25	100
4.	Engineering Mechanics	2	2	1	5	2	1	1	4	10	40	25	25	100
5.	Advanced Electrical Engineering	2	-	1	3	2	-	1	3	10	40	-	-	50
6.	Engineering Graphics – II	-	2	1	3	-	2	1	3	-	-	25	25	50
7.	Workshop	-	2	-	2	-	2	-	2	-	-	25	25	50
8.	Ethical Sciences	2	-	-	2	2	-	-	2	50	-	-	-	50
	Total	14	10	06	30	14	07	06	27	110	240	125	125	600

RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR
B. E. (Electrical Engineering)
SCHEME OF EXAMINATION

FOURTH SEMESTER

S.N.	Sub Code	Subject	Board	Teaching Scheme				Credits	Examination Scheme			Min. Passing Marks	Paper Duration	
				L	T	P	Total		College Assessment	Univ. Assessment	Total Marks			
1	BEELE401T	APPLIED MATHEMATICS - IV	ASH	4	1	0	5	5	20	80	100	40	3 Hours	
2	BEELE402T	ELEMENTS OF ELECTROMAGNETICS	EE	4	1	0	5	5	20	80	100	40	3 Hours	
3	BEELE403T	DIGITAL AND LINEAR ELECTRONIC CIRCUITS	EN	3	1	0	4	4	20	80	100	40	3 Hours	
		DIGITAL AND LINEAR ELECTRONIC CIRCUITS	EN	0	0	2	2	2	25	25	50	25		
5	BEELE404T	ELECTRICAL MACHINES-I	EE	4	1	0	5	5	20	80	100	40	3 Hours	
6	BEELE404P	ELECTRICAL MACHINES-I	EE	0	0	2	2	2	25	25	50	25		
7	BEELE405T	COMPUTER PROGRAMMING	EE	4	1	0	5	5	20	80	100	40	3 Hours	
8	BEELE405P	COMPUTER PROGRAMMING	EE	0	0	2	2	2	25	25	50	25		
9	BEELE406T	ENVIRONMENTAL STUDIES	ASH	3	0	0	3	0	75 + 25		Graded			
Total					22	5	6	23	23			650		

RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR
B.E. (Electrical Engineering)
SCHEME OF EXAMINATION

FIFTH SEMESTER

S.N.	Sub Code	Subject	Board	Teaching Scheme				Credits	Examination Scheme			Min. Passing Marks	Paper Duration	
				L	T	P	Total		College Assessment	Univ. Assessment	Total Marks			
1	BEELE501T	ELECTRICAL POWER SYST - I	EE	4	1	0	5	5	20	80	100	40	3 Hours	
2	BEELE502T	UTILIZATION OF ELECTRIC ENERGY	EE	3	1	0	4	4	20	80	100	40	3 Hours	
3	BEELE503T	ELECTRICAL MACHINE DESIGN	EE	4	1	0	5	5	20	80	100	40	3 Hours	
4	BEELE504T	MICROPROCESSOR & INTERFACING	EN	3	1	0	4	4	20	80	100	40	3 Hours	
5	BEELE504P	MICROPROCESSOR & INTERFACING	EN	0	0	2	2	2	25	25	50	25		
6	BEELE505T	ELECTRICAL MACHINES-II	EE	4	1	0	5	5	20	80	100	40	3 Hours	
7	BEELE505P	ELECTRICAL MACHINES-II	EE	0	0	2	2	2	25	25	50	25		
8	BEELE506P	ELECTRICAL DRAWING & SIMULATION	EE	0	0	2	2	2	25	25	50	25		
9	BEELE507P	ELECTRICAL ENGINEERING WORKSHOP	EE	0	0	2	2	2	25	25	50	25		
Total					18	5	8	31	29			700		

RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR
B.E. (Electrical Engineering)
SCHEME OF EXAMINATION

SIXTH SEMESTER

S.N.	Sub Code	Subject	Board	Teaching Scheme				Credits	Examination Scheme			Min. Passing Marks	Paper Duration	
				L	T	P	Total		College Assessment	Univ. Assessment	Total Marks			
1	BEELE601T	POWER STATION PRACTICE	EE	5	1	0	6	6	20	80	100	40	3 Hours	
2	BEELE602T	ENGINEERING ECONOMICS & INDUSTRIAL MANAGEMENT	ASEI	5	1	0	6	6	20	80	100	40	3 Hours	
3	BEELE603T	ELECTRICAL DRIVES & THEIR CONTROL	EE	4	1	0	5	5	20	80	100	40	3 Hours	
4	BEELE604T	POWER ELECTRONICS	EE	4	1	0	5	5	20	80	100	40	3 Hours	
5	BEELE604P	POWER ELECTRONICS	EE	0	0	2	2	2	25	25	50	25		
6	BEELE605T	CONTROL SYSTEM-I	EE	4	1	0	5	5	20	80	100	40	3 Hours	
7	BEELE605P	CONTROL SYSTEM-I	EE	0	0	2	2	2	25	25	50	25		
8	BEELE606P	INDUSTRIAL VISITS & REPORT WRITING	EE	0	0	2	2	2	20	0	50	25		
9	BEELE607T	FUNCTIONAL ENGLISH	ASEI	2	0	0	2	2	10	40	50	20	2 Hours	
Total					20	5	6	31	29			700		

RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR
B.E. (Electrical Engineering)
SCHEME OF EXAMINATION

SEVENTH SEMESTER

S.N	Sub Code	Subject	Board	Teaching Scheme				Credits	Examination Scheme			Min. Passing Marks	Paper Duration
				L	T	P	Total		College Assessment	Univ. Assessment	Total Marks		
1	BEELE701T	CONTROL SYSTEM-II	EE	4	1	0	5	5	20	80	100	40	3 Hours
2	BEELE702T	ELECTRICAL POWER SYSTEM –II	EE	4	1	0	5	5	20	80	100	40	3 Hours
3	BEELE703T	ELECTIVE –I	EE	3	1	0	4	4	20	80	100	40	3 Hours
4	BEELE704T	HIGH VOLTAGE ENGINEERING	EE	4	1	0	5	5	20	80	100	40	3 Hours
5	BEELE704P	HIGH VOLTAGE ENGINEERING	EE	0	0	2	2	1	25	25	50	25	
6	BEELE705T	ELECTRICAL INSTALLATION DESIGN	EE	4	1	0	5	5	20	80	100	40	3 Hours
7	BEELE705P	ELECTRICAL INSTALLATION DESIGN	EE	0	0	2	2	1	25	25	50	25	
8	BEELE706P	PROJECT SEMINAR	EE	0	0	3	3	3	50	0	50	25	
Total				19	6	7	32	30			650		

RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR
B.E. (Electrical Engineering)
SCHEME OF EXAMINATION

EIGHTH SEMESTER

S.N	Sub Code	Subject	Board	Teaching Scheme				Credits	Examination Scheme			Min. Passing Marks	Paper Duration
				L	T	P	Total		College	Univ.	Total		
1	BEELE801T	ELECTIVE- I	EE	3	1	0	4	4	20	80	100	40	3 Hours
2	BEELE802T	ELECTIVE- II	EE	3	1	0	4	4	20	80	100	40	3 Hours
3	BEELE803T	SWITCHGEAR & PROTECTION	EE	4	1	0	5	5	20	80	100	40	3 Hours
	BEELE803P	SWITCHGEAR & PROTECTION	EE	0	0	2	2	1	25	25	50	25	
4	BEELE804T	COMPUTER APPLICATIONS IN POWER SYSTEM	EE	4	1	0	5	5	20	80	100	40	3 Hours
	BEELE804P	COMPUTER APPLICATIONS IN POWER SYSTEM	EE	0	0	2	2	1	25	25	50	25	
5	BEELE805P	PROJECT	EE	0	0	6	6	6	75	75	150	75	
Total				14	4	10	28	29			650		

S.No.	Elective-I	Elective-II	Elective-III
1	IT and its Applications in Power System Control	Entrepreneurship Development	Bio-medical Engineering
2	Fuzzy Logic and Neural Networks	Digital Signal Processing	Advanced Microprocessor Peripherals
3	Flexible AC Transmission Systems	Power Quality	Power Semiconductor Based Electric
4	Energy Management and Audit	EHV AC and HVDC Transmission	Electrical Distribution System

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur
Faculty of Engineering & Technology
Course and Examination Scheme of Bachelor of Engineering (Mechanical Engineering)

III Semester B.E. (Mechanical Engineering)

Subject Code	Subject	Teaching Scheme				Examination Scheme								
		Hours per week			No. of Credits	Theory					Practical			
		L	T	P		Duration of Paper (Hrs.)	Max. Marks University Assessment	Max. Marks College Assessment	Total Marks	Min. Passing Marks	Max. Marks University Assessment	Max. Marks College Assessment	Total Marks	Min. Passing Marks
BEME301T	Applied Mathematics- III*	03	01	-	04	03	80	20	100	40	-	-	-	-
BEME302T	Kinematics of Machine	03	01	-	04	03	80	20	100	40	-	-	-	-
BEME303T	Fluid Mechanics	03	01	-	04	03	80	20	100	40	-	-	-	-
BEME304T	Manufacturing Processes	03	03	-	04	03	80	20	100	40	-	-	-	-
BEME304P	Manufacturing Processes	-	-	02	01	-	-	-	-	-	25	25	50	25
BEME305T	Engineering Metallurgy	03	01	-	04	03	80	20	100	40	-	-	-	-
BEME305P	Engineering Metallurgy	-	-	02	01	-	-	-	-	-	25	25	50	25
BEME306P	Machine Drawing	-	02	02	04	-	-	-	-	-	50	50	100	50
BEME307P	Technical Report and Seminar	-	-	02	02	-	-	-	-	-	-	50	50	25
Total		15	07	08	-	-	400	100	500	-	100	150	250	-
Semester Total		30			25	Marks 750								

* Applied Mathematics – III (BEME301T) subject pertains to Board of Studies in Applied Sciences & Humanities

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur
Faculty of Engineering & Technology
Course and Examination Scheme of Bachelor of Engineering (Mechanical Engineering)

IV Semester B.E. (Mechanical Engineering)

Subject Code	Subject	Teaching Scheme				Examination Scheme								
		Hours per week			No. of Credits	Theory					Practical			
		L	T	P		Duration of Paper (Hrs.)	Max. Marks University Assessment	Max. Marks College Assessment	Total Marks	Min. Passing Marks	Max. Marks University Assessment	Max. Marks College Assessment	Total Marks	Min. Passing Marks
BEME401T	Applied Mathematics- IV*	03	01	-	04	03	80	20	100	40	-	-	-	-
BEME402T	Engineering Thermodynamics	03	01	-	04	03	80	20	100	40	-	-	-	-
BEME403T	Hydraulic Machines	03	01	-	04	03	80	20	100	40	-	-	-	-
BEME403P	Hydraulic Machines	-	-	02	01	-	-	-	-	-	25	25	50	25
BEME404T	Machining Processes	03	01	-	04	03	80	20	100	40	-	-	-	-
BEME404P	Machining Processes	-	-	02	01	-	-	-	-	-	25	25	50	25
BEME405T	Mechanics of Material	03	01	-	04	03	80	20	100	40	-	-	-	-
BEME405P	Mechanics of Material	-	-	02	01	-	-	-	-	-	25	25	50	25
BEME406T	Environmental Studies	03	-	-	College Assessment is Grade as O, A, B, C, (Evaluation Guidelines mentioned in the Syllabus of concerned Subject)									
BEME407P	Mini Project	-	-	02	02	-	-	-	-	-	-	50	50	25
Total		18	05	08	-	-	400	100	500	-	75	125	200	-
Semester Total		31			25	Marks 700								

* Applied Mathematics – IV (BEME401T) subject pertains to Board of Studies in Applied Sciences & Humanities

Rashtrasant Tukdoji(Mahara) Nagpur University, Nagpur
Faculty of Engineering & Technology
Course and Examination Scheme of Bachelor of Engineering (Mechanical Engineering)
V Semester B.E. (Mechanical Engineering)

Subject Code	Subject	Teaching Scheme				Examination Scheme								
		Hours per week			No. of Credits	Theory				Practical				
		L	T	P		Duration of Paper (Hrs.)	Max. Marks University Assessment	Max. Marks College Assessment	Total Marks	Min. Passing Marks	Max. Marks University Assessment	Max. Marks College Assessment	Total Marks	Min. Passing Marks
BEME501T	Industrial Economics and Entrepreneurship Development	03	00	-	04	03	80	20	100	40	-	-	-	-
BEME502T	Design of Machine Elements	03	00	-	04	03	80	20	100	40	-	-	-	-
BEME503T	Advanced Production Processes	03	00	-	04	03	80	20	100	40	-	-	-	-
BEME504T	Heat Transfer	03	00	-	04	03	80	20	100	40	-	-	-	-
BEME504P	Heat Transfer	-	-	02	01	-	-	-	-	-	25	25	50	25
BEME505T	Mechanical Measurement & Metrology	03	00	-	04	03	80	20	100	40	-	-	-	-
BEME505P	Mechanical Measurement & Metrology	-	-	02	01	-	-	-	-	-	25	25	50	25
BEME506P	Computer Applications - I	-	02	02	04	-	-	-	-	-	50	50	100	50
BEME507D	Industrial Visit	-	-	02		Audit Course								
Total		15	07	08		-	400	100	500	-	100	100	200	-
Semester Total		30			38	Marks 700								

Industrial Economics and Entrepreneurship Development (BEME501T) subject pertains to Board of Studies in Applied Sciences & Humanities and all the remaining subjects pertain to the Board of Studies in Mechanical Engineering.

Rashtrasant Tukdoji(Mahara) Nagpur University, Nagpur
Faculty of Engineering & Technology
Course and Examination Scheme of Bachelor of Engineering (Mechanical Engineering)
VI Semester B.E. (Mechanical Engineering)

Subject Code	Subject	Teaching Scheme				Examination Scheme								
		Hours per week			No. of Credits	Theory				Practical				
		L	T	P		Duration of Paper (Hrs.)	Max. Marks University Assessment	Max. Marks College Assessment	Total Marks	Min. Passing Marks	Max. Marks University Assessment	Max. Marks College Assessment	Total Marks	Min. Passing Marks
BEME601T	Energy Conversion - I	03	01	-	04	03	80	20	100	40	-	-	-	-
BEME602T	Control Systems Engineering	03	01	-	04	03	80	20	100	40	-	-	-	-
BEME603T	Operations Research	03	01	-	04	03	80	20	100	40	-	-	-	-
BEME604T	Mechatronics	03	01	-	04	03	80	20	100	40	-	-	-	-
BEME604P	Mechatronics	-	-	02	01	-	-	-	-	-	25	25	50	25
BEME605T	Dynamics of Machines	03	01	-	04	03	80	20	100	40	-	-	-	-
BEME605P	Dynamics of Machines	-	-	02	01	-	-	-	-	-	25	25	50	25
BEME606T	Functional English	03	-	-	03	02	40	10	50	20	-	-	-	-
BEME607P	Computer Applications - II	-	02	02	04	-	-	-	-	-	50	50	100	50
BEME608D	Industrial Case Study	-	-	02	02	-	-	-	-	-	-	50	50	25
Total		17	07	08	-	-	440	110	550	-	100	150	250	-
Semester Total		32			30	600 Marks								

Functional English (BEME606T) subject pertains to Board of Studies in Applied Sciences & Humanities and all the remaining subjects pertain to the Board of Studies in Mechanical Engineering. Mechatronics (BEME604T/P) subject can also be taught by a teacher from Electronics/Instrumentation/Mechatronics/relevant disciplines.

ANNEXURE - II

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur
Faculty of Engineering & Technology
Course and Examination Scheme of Bachelor of Engineering (Mechanical Engineering)

VII Semester B.E. (Mechanical Engineering)

Subject Code	Subject	Teaching Scheme				Examination Scheme								
		Hours per week			No. of Credits	Theory					Practical			
		L	T	P		Duration of Paper (Hrs.)	Max. Marks University Assessment	Max. Marks College Assessment	Total Marks	Min. Passing Marks	Max. Marks University Assessment	Max. Marks College Assessment	Total Marks	Min. Passing Marks
BEME701T	Industrial Engineering	03	01	-	04	03	80	20	100	40	-	-	-	-
BEME702T	Elective-I	03	01	-	04	03	80	20	100	40	-	-	-	-
BEME703T	Computer Aided Design	03	01	-	04	03	80	20	100	40	-	-	-	-
BEME703P	Computer Aided Design	-	-	02	01	-	-	-	-	-	25	25	50	25
BEME704T	Energy Conversion - II	03	01	-	04	03	80	20	100	40	-	-	-	-
BEME704P	Energy Conversion - II	-	-	02	01	-	-	-	-	-	25	25	50	25
BEME705T	Design of Mechanical Drives	03	01	-	04	03	80	20	100	40	-	-	-	-
BEME705P	Design of Mechanical Drives	-	-	02	01	-	-	-	-	-	25	25	50	25
BEME706P	Project Seminar	-	-	03	03	-	-	-	-	-	-	30	30	25
Total		18	08	09	-	-	400	100	500	-	75	125	200	-
Semester Total		29			16	700 Marks								

Elective - I (BEME702T):

BEME702T1: Industrial Robotics
 BEME702T4: Power Plant Engineering

BEME702T2: Tool Design
 BEME702T5: Synthesis of Mechanisms

BEME702T3: Automobile Engineering
 BEME702T6: Material Handling Systems

All subjects pertain to Board of Studies in Mechanical Engineering.

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur
Faculty of Engineering & Technology
Course and Examination Scheme of Bachelor of Engineering (Mechanical Engineering)

VIII Semester B.E. (Mechanical Engineering)

Subject Code	Subject	Teaching Scheme				Examination Scheme								
		Hours per week			No. of Credits	Theory					Practical			
		L	T	P		Duration of Paper (Hrs.)	Max. Marks University Assessment	Max. Marks College Assessment	Total Marks	Min. Passing Marks	Max. Marks University Assessment	Max. Marks College Assessment	Total Marks	Min. Passing Marks
BEME801T	Industrial Management	03	01	-	04	03	80	20	100	40	-	-	-	-
BEME802T	Elective - II	03	01	-	04	03	80	20	100	40	-	-	-	-
BEME802P	Elective - II	-	-	02	01	-	-	-	-	-	25	25	50	25
BEME803T	Elective - III	03	01	-	04	03	80	20	100	40	-	-	-	-
BEME804T	Automation in Production	03	01	-	04	03	80	20	100	40	-	-	-	-
BEME804P	Automation in Production	-	-	02	01	-	-	-	-	-	25	25	50	25
BEME805T	Energy Conversion - III	03	01	-	04	03	80	20	100	40	-	-	-	-
BEME805P	Energy Conversion - III	-	-	02	01	-	-	-	-	-	25	25	50	25
BEME806P	Project	-	-	06	06	-	-	-	-	-	75	75	150	75
Total		15	05	12	-	-	480	120	600	-	150	150	300	-
Semester Total		22			20	600 Marks								

Elective - II (BEME802T, BEME802P):

BEME802T1-P1: Finite Element Method
 BEME802T4-P4: Management Information Systems

BEME802T3-P3: Computer Integrated Manufacturing
 BEME802T5-P5: Refrigeration & Air-Conditioning

BEME802T6-P6: Industrial Fluid Power
 BEME802T8-P8: Stress Analysis

Elective - III (BEME803T):

BEME803T1: Advanced Manufacturing Techniques
 BEME803T4: Mechanical Vibrations

BEME803T2: Machine Tool Design
 BEME803T5: Advanced I.C. Engines

BEME803T3: Renewable Energy Systems
 BEME803T6: Tribology

All subjects pertain to Board of Studies in Mechanical Engineering.

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur

Faculty of Engineering & Technology
CIVIL ENGINEERING
 Scheme of Examination & Evaluation
 Semester - Third

Subject Code	Course	Teaching Scheme (Clock Hours/Week)					Evaluation Scheme								Duration of University Theory Exam (Hrs)	
		Theory hrs/week	Tutorial hrs/week	Practical hrs/week	Total hrs/week	Credits	Assessment of Marks for Theory				Assessment of Marks for Practicals					
							College Assessment (CA)	University Exam	Total	Min Marks	Internal	External	Total Marks	Min. Marks		
BCEVE3011	Mechanics - I	3	1		4	4	20	80	100	40						3
BCEVE3021	Strength of Materials	3	1		4	4	20	80	100	40						3
BCEVE3022	Strength of Materials			2	2	1						25	25	50	25	
BCEVE3031	Environmental Engineering - I	4	0		4	4	20	80	100	40						3
BCEVE3032	Environmental Engineering - I			2	2	1						25	25	50	25	
BCEVE3041	Engineering Geology	4	0		4	4	20	80	100	40						3
BCEVE3042	Engineering Geology			2	2	1						25	25	50	25	
BCEVE3051	Concrete Technology	4	0		4	4	20	80	100	40						3
BCEVE3052	Concrete Technology			2	2	1						25	25	50	25	
	TOTAL	18	2	4	24	24	100	400	500	200	100	100	300	150		

Handwritten signatures and dates:
 Dr. S. J. Patil (22/5)
 01/10/13
 01/10/13
 01/10/13
 01/10/13

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur

Faculty of Engineering & Technology
CIVIL ENGINEERING
 Scheme of Examination & Evaluation
 Semester - Fourth

Subject Code	Course	Teaching Scheme (Clock Hours/Week)					Evaluation Scheme								Duration of University Theory Exam (Hrs)	
		Theory hrs/week	Tutorial hrs/week	Practical hrs/week	Total hrs/week	Credits	Assessment of Marks for Theory				Assessment of Marks for Practicals					
							College Assessment (CA)	University Exam	Total	Min Marks	Internal	External	Total Marks	Min. Marks		
BCEVE4011	Structural Analysis - I	3	1		4	4	20	80	100	40						3
BCEVE4012	Structural Analysis - I			2	2	1						25	25	50	25	
BCEVE4021	Electrical Engineering - I	3	1		4	4	20	80	100	40						3
BCEVE4022	Electrical Engineering - I			2	2	1						25	25	50	25	
BCEVE4031	Transportation Engineering - I	4	0		4	4	20	80	100	40						3
BCEVE4032	Transportation Engineering - I			2	2	1						25	25	50	25	
BCEVE4041	Surveying - I	3	1		4	4	20	80	100	40						3
BCEVE4042	Surveying - I			2	2	2						25	25	50	25	
BCEVE4051	Building Construction & Material	3	1		4	4	20	80	100	40						3
	TOTAL	18	4	4	26	26	100	400	500	200	100	100	300	150		

Summer Training (ST-3) of minimum two weeks duration (on ground field project, software training etc.) during summer vacation after Fourth Semester, to be evaluated as Mini Project during Fifth Semester in accordance.

Handwritten signatures and dates:
 Dr. S. J. Patil (22/5)
 01/10/13
 01/10/13
 01/10/13
 01/10/13

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

Subject Code	Course	Teaching Scheme (Clock Hours/Week)					Evaluation Scheme								Duration of University Theory Exam (Hrs)	
		Theory hrs/week	Tutorial hrs/week	Practical hrs/week	Total hrs/week	Credits	Assessment of Marks for Theory				Assessment of Marks for Practicals					
							College Assessment (CA)	University Exam	Total Marks	Min. Marks	Internal	External	Total Marks	Min. Marks		
BECVE501T	Structural Analysis -II	3	1		4	4	20	80	100	40						3
BECVE501P	Structural Analysis -II			2	2	1						25	25	50	25	
BECVE502T	Reinforced Concrete Concrete (RCC) Structures	3	1		4	4	20	80	100	40						4
BECVE502P	Reinforced Concrete (RCC) Structures			2	2	1						25	25	50	25	
BECVE503T	Fluid Mechanics -I	3	1		4	4	20	80	100	40						3
BECVE503P	Fluid Mechanics -I			2	2	1						25	25	50	25	
BECVE504T	Geotechnical Engineering -II	3	1		4	4	20	80	100	40						3
BECVE505T	Hydrology & Water Resources (HWRE)	4			4	4	20	80	100	40						3
BECVE506P	Communicative English & Technical Writing			3	3	2						25	25	50	25	
Total		16	4	9	29	26	100	400	500			100	100	200		

Note: 1. "Technical Writing" shall consist of detailed report on Summer Training - I (ST-1) undertaken after 4th Semester.

2. Equal weightage shall be given to the components of "Communicative English" and "Technical Writing".

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

Subject Code	Course	Teaching Scheme (Clock Hours/Week)					Evaluation Scheme								Duration of University Theory Exam (Hrs)	
		Theory hrs/week	Tutorial hrs/week	Practical hrs/week	Total hrs/week	Credits	Assessment of Marks for Theory				Assessment of Marks for Practicals					
							College Assessment (CA)	University Exam	Total Marks	Min. Marks	Internal	External	Total Marks	Min. Marks		
BECVE601T	Steel Structures	3	1		4	4	20	80	100	40						4
BECVE601P	Steel Structures			2	2	1						25	25	50	25	
BECVE602T	Surveying-II	3	1		4	4	20	80	100	40						3
BECVE602P	Surveying-II			4	4	2						25	25	50	25	
BECVE603T	Fluid Mechanics-II	3	1		4	4	20	80	100	40						3
BECVE603P	Fluid Mechanics-II			2	2	1						25	25	50	25	
BECVE604P	Building Design and Drawing			4	4	4						50	50	100	50	
BECVE605T	Environmental Engineering-II	3	1		4	4	20	80	100	40						3
BECVE606P	Site Visit & Mini Project			2	2	2						25	25	50		
Total		12	4	16	32	27	80	320	400			150	150	300		

Summer Training - I (ST-2) of 2-4 Weeks duration during Summer Vacation is mandatory and will be evaluated in Seventh Semester.

- Note
1. Special Practical Evaluation of Building Design and Drawing shall be performance based by drawing assigned problem given jointly by the Internal & External Examiners on AutoCAD.
 2. "Site Visit" shall cover minimum Five Site Visits.
 3. "Mini Project" shall include report on Site Visits and Assigned Mini Project/Software Training, etc.
 4. Equal weightage shall be given for components of "Site Visits" and "Mini Project".

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

Subject Code	Course	Teaching Scheme (Clock Hours/ Week)					Evaluation Scheme								Duration of University Theory Exam (Hrs)	
		Theory hrs/week	Tutorial hrs/week	Practical hrs/week	Total hrs/week	Credits	Assessment of Marks for Theory				Assessment of Marks for Practical					
							College Assessment (CA)	University Exam	Total Marks	Min. Marks	Internal	External	Total Marks	Min. Marks		
BECVE701T	Advanced Concrete Structures	3	1		4	4	20	80	100	40						4
BECVE701P	Advanced Concrete Structures			2	2	1						25	25	50	25	
BECVE702T	Estimating and Costing	3	1		4	4	20	80	100	40						4
BECVE702P	Estimating and Costing			2	2	1						50	50	100	50	
BECVE703T	Elective -I	3	1		4	4	20	80	100	40						3
BECVE704T	Construction Management and Law	4			4	4	20	80	100	40						3
BECVE705T	Transportation Engineering - II	3	1		4	4	20	80	100	40						3
BECVE706P	Industrial Case Study and Project Seminar			3	3	3						50	50	100	50	
Total		16	4	7	27	25	100	400	500			125	125	250		

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.

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

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

SCHEME OF EXAMINATION FOR

III SEM BACHELOR OF ENGINEERING (ELECTRONICS & COMMUNICATION / ELECTRONICS & TELECOMMUNICATION ENGINEERING)

Sub Code	Board	SUBJECT	Work Load				Credit				Marks				Total Marks
			L	P	T	Total	L	P	T	Total	Theory		Practical		
											Internal	University	Internal	University	
BEECE301T/BEETE301T	Applied Science & Humanities	Applied Mathematics-III	4	0	1	5	4	0	1	5	20	80	0	0	100
BEECE302T/BEETE302T	Electronics	Electronic Devices & Circuits	4	0	1	5	4	0	1	5	20	80	0	0	100
BEECE302P/BEETE302P	Electronics	Electronic Devices & Circuits	0	2	0	2	0	1	0	1	0	0	25	25	50
BEECE303T/BEETE303T	Electronics	Electronics Measurement & Instrumentation	4	0	0	4	4	0	0	4	20	80	0	0	100
BEECE303P/BEETE303P	Electronics	Electronics Measurement & Instrumentation	0	2	0	2	0	1	0	1	0	0	25	25	50
BEECE304T/BEETE304T	Electronics	Object Oriented Programming and Data Structure	4	0	1	5	4	0	1	5	20	80	0	0	100
BEECE304P/BEETE304P	Electronics	Object Oriented Programming and Data Structure	0	2	0	2	0	1	0	1	0	0	25	25	50
BEECE305T/BEETE305T	Electrical	Network Analysis & Synthesis	4	0	1	5	4	0	1	5	20	80	0	0	100
Total			20	6	4	30	20	3	4	27	100	400	75	75	650

IV SEM BACHELOR OF ENGINEERING IN(ELECTRONICS & COMMUNICATION / ELECTRONICS & TELECOMMUNICATION ENGINEERING)

Sub Code	Board	SUBJECT	Work Load				Credit				Marks				Total Marks
			L	P	T	Total	L	P	T	Total	Theory		Practical		
											Internal	University	Internal	University	
BEECE401T/BEETE401T	Applied Science & Humanities	Applied Mathematics-IV	4	0	1	5	4	0	1	5	20	80	0	0	100
BEECE402T/BEETE402T	Electrical	Power Devices & Machines	4	0	0	4	4	0	0	4	20	80	0	0	100
BEECE402P/BEETE402P	Electrical	Power Devices & Machines	0	2	0	2	0	1	0	1	0	0	25	25	50
BEECE403T/BEETE403T	Electronics	Electromagnetic Field	4	0	1	5	4	0	1	5	20	80	0	0	100
BEECE404T/BEETE404T	Electronics	Digital Circuits And Fundamental Of Microprocessor	4	0	1	5	4	0	1	5	20	80	0	0	100
BEECE404P/BEETE404P	Electronics	Digital Circuits And Fundamental Of Microprocessor	0	2	0	2	0	1	0	1	0	0	25	25	50
BEECE405T/BEETE405T	Electronics	Signals & Systems	4	0	1	5	4	0	1	5	20	80	0	0	100
BEECE406T/BEETE406T	Applied Science & Humanities	Environmental Studies	3	0	0	3	Audit Course			0	0	0	G	0	0
BEECE407P/BEETE407P	Electronics	Software Workshop	0	2	0	2	0	2	0	2	0	0	25	25	50
Total			23	6	4	33	20	4	4	28	100	400	75	75	650



PROPOSED SCHEME OF EXAMINATION FOR FIFTH SEMESTER BACHELOR OF ENGINEERING

(ELECTRONICS & COMMUNICATION/ELECTRONICS & TELECOMMUNICATION ENGINEERING)

Sub Code	Board	SUBJECT	Work Load				Credit				Marks				Total Marks
			L	P	T	Total	L	P	T	Total	Theory		Practical		
											Internal	University	Internal	University	
BEECE501T/ BEETE501T	Electronics	Antenna & Wave Propagation	4	0	1	5	4	0	1	5	20	80	0	0	100
BEECE502T/ BEETE502T	Electronics	Microprocessor & Microcontroller	4	0	1	5	4	0	1	5	20	80	0	0	100
BEECE502P/ BEETE502P	Electronics	Microprocessor & Microcontroller	0	2	0	2	0	1	0	1	0	0	25	25	50
BEECE503T/ BEETE503T	Electronics	Analog Circuits & Design	4	0	1	5	4	0	1	5	20	80	0	0	100
BEECE503P/ BEETE503P	Electronics	Analog Circuits & Design	0	2	0	2	0	1	0	1	0	0	25	25	50
BEECE504T/ BEETE504T	Electronics	Communication Electronics	4	0	1	5	4	0	1	5	20	80	0	0	100
BEECE504P/ BEETE504P	Electronics	Communication Electronics	0	2	0	2	0	1	0	1	0	0	25	25	50
BEECE505T/ BEETE505T	Applied Science & Humanities	Industrial Economics & Entrepreneurship Development	4	0	0	4	4	0	0	4	20	80	0	0	100
Total			20	6	4	30	20	3	4	27	100	400	75	75	650



PROPOSED SCHEME OF EXAMINATION FOR
SIXTH SEMESTER BACHELOR OF ENGINEERING

(ELECTRONICS & COMMUNICATION/ELECTRONICS & TELECOMMUNICATION ENGINEERING)

Sub Code	Board	SUBJECT	Work Load				Credit				Marks				
			L	P	T	Total	L	P	T	Total	Theory		Practical		Total Marks
											Internal	University	Internal	University	
BEECE601T/ BEETE601T	Electronics	Telecommunication Switching Systems	4	0	1	5	4	0	1	5	20	80	0	0	100
BEECE602T/ BEETE602T	Electronics	Digital Signal processing	4	0	1	5	4	0	1	5	20	80	0	0	100
BEECE602P/ BEETE602P	Electronics	Digital Signal processing	0	2	0	2	0	1	0	1	0	0	25	25	50
BEECE603T/ BEETE603T	Electrical	Control System Engg.	4	0	1	5	4	0	1	5	20	80	0	0	100
BEECE604T/ BEETE604T	Electronics	Digital Communication	4	0	1	5	4	0	1	5	20	80	0	0	100
BEECE604P/ BEETE604P	Electronics	Digital Communication	0	2	0	2	0	2	0	2	0	0	25	25	50
BEECE605T/ BEETE605T	Applied Science & Humanities	Functional English	2	0	1	3	2	0	1	3	10	40	0	0	50
BEECE606P/ BEETE606P	Electronics	Electronics Workshop Practice	0	2	0	2	0	2	0	2	0	0	25	25	50
BEECE607P/ BEETE607P	Electronics	Industrial Visit	0	2	0	2	Audit Course			0	0	0	0	0	0
Total			18	8	5	31	18	5	5	28	90	360	75	75	600



Rashtrasant Tukadoji Maharaj Nagpur University

Formerly Known as Nagpur University



SCHEME OF EXAMINATION FOR

B.E. SEVENTH SEMESTER (ELECTRONICS & COMMUNICATION / ELECTRONICS & TELECOMMUNICATION ENGINEERING)

Sub Code	Board	SUBJECT	Work Load				Credit				Marks				Total Marks
			L	P	T	Total	L	P	T	Total	Theory		Practical		
											Inter nal	Unive rsity	Inter nal	Unive rsity	
BEECE701T/ BEETE701T	Electronics	DSP Processor & Architecture	4	0	1	5	4	0	1	5	20	80	0	0	100
BEECE701P/ BEETE701P	Electronics	DSP Processor & Architecture	0	2	0	2	0	1	0	1	0	0	25	25	50
BEECE702T/ BEETE702T	Electronics	Television & Video Engineering	4	0	1	5	4	0	1	5	20	80	0	0	100
BEECE702P/ BEETE702P	Electronics	Television & Video Engineering	0	2	0	2	0	1	0	1	0	0	25	25	50
BEECE703T/ BEETE703T	Electronics	Optical Communication	4	0	0	4	4	0	0	4	20	80	0	0	100
BEECE704T/ BEETE704T	Electronics	Advanced Digital System Design	4	0	1	5	4	0	1	5	20	80	0	0	100
BEECE704P/ BEETE704P	Electronics	Advanced Digital System Design	0	2	0	2	0	1	0	1	0	0	25	25	50
BEECE705T/ BEETE705T	Electronics	Elective-I	3	0	1	4	3	0	1	4	20	80	0	0	100
BEECE706P/ BEETE706P	Electronics	Project Seminar	0	2	0	2	0	2	0	2	0	0	50	0	50
Total			19	8	4	31	19	5	4	28	100	400	125	75	700

Elective-I – 1. Fuzzy Logic & Neural Network 2. Microelectromechanical Systems and System On Chip 3. Data Compression & Encryption
4. VLSI Signal Processing



SCHEME OF EXAMINATION FOR

B.E. EIGHTH SEMESTER (ELECTRONICS & COMMUNICATION / ELECTRONICS & TELECOMMUNICATION ENGINEERING)

Sub Code	Board	SUBJECT	Work Load				Credit				Marks				Total Marks
			L	P	T	Total	L	P	T	Total	Theory		Practical		
											Internal	Unive rsity	Inter nal	Unive rsity	
BEECE801T/ BEETE801T	Electronics	Microwave & Radar Engineering	4	0	0	4	4	0	0	4	20	80	0	0	100
BEECE801P/ BEETE801P	Electronics	Microwave & Radar Engineering	0	2	0	2	0	1	0	1	0	0	25	25	50
BEECE802T/ BEETE802T	Electronics	Computer Communication Network	4	0	1	5	4	0	1	5	20	80	0	0	100
BEECE802P/ BEETE802P	Electronics	Computer Communication Network	0	2	0	2	0	1	0	1	0	0	25	25	50
BEECE803T/ BEETE803T	Electronics	Wireless & Mobile Communication	4	0	0	4	4	0	0	4	20	80	0	0	100
BEECE804T/ BEETE804T	Electronics	Elective-II	3	0	1	4	3	0	1	4	20	80	0	0	100
BEECE805T/ BEETE805T	Electronics	Elective-III	3	0	1	4	3	0	1	4	20	80	0	0	100
BEECE806P/ BEETE806P	Electronics	Project	0	6	0	6	0	6	0	6	0	0	75	75	150
Total			18	10	3	31	18	8	3	29	100	400	125	125	750

Elective-II – 1. Wireless Sensor Network 2. Embedded System 3. Digital Image Processing 4. Artificial Intelligence

Elective-III – 1. Random Signal Theory 2. Robotics & Automation 3. Satellite Communication 4. CMOS VLSI Design

FOUR YEAR BACHELOR OF ENGINEERING (B.E.) DEGREE COURSE
SEMESTER: THIRD
BRANCH: COMPUTER SCIENCE & ENGINEERING

Code	Subject	Workload				Credit				Marks				
		L	P	T	Total	L	P	T	Total	Theory		Practical		Total Marks
										Sess.	Univ.	Sess.	Uni	
1 BECSE201T	Applied Mathematics	4	-	1	5	4	-	1	5	20	80	-	-	100
2 BECSE202T	Advance "C" & Programming Logic Design	4	-	1	5	4	-	1	5	20	80	-	-	100
3 BECSE202P	Advance "C" & Programming Logic Design lab	-	2	-	2	-	1	-	1	-	-	25	25	50
4 BECSE203T	Digital Circuits & Fund. of Microprocessor	4	-	1	5	4	-	1	5	20	80	-	-	100
5 BECSE203P	Digital Circuits & Fund. of Microprocessor lab	-	2	-	2	-	1	-	1	-	-	25	25	50
6 BECSE204T	Ethics in IT	3	-	1	4	3	-	1	4	20	80	-	-	100
7 BECSE205T	Computer Architecture and Organization	4	-	1	5	4	-	1	5	20	80	-	-	100
8 BECSE206P	Computer Workshop - 1 Lab	-	2	-	2	-	1	-	1	-	-	25	25	50
9 BECSE207T	Environmental Engineering (Audit Course)	2	-	-	2	-	-	-	0	-	-	-	-	-
Total		21	6	5	32	19	3	5	27	100	400	75	75	650

FOUR YEAR BACHELOR OF ENGINEERING (B.E.) DEGREE COURSE
SEMESTER: FOURTH
BRANCH: COMPUTER SCIENCE & ENGINEERING

Sr. No.	Subject	Workload				Credit				Marks				
		L	P	T	Total	L	P	T	Total	Theory		Practical		Total Marks
										Sess.	Univ.	Sess.	Uni	
1 BECSE208T	Discrete Mathematics & Graph Theory	3	-	1	4	3	-	1	4	20	80	-	-	100
2 BECSE209T	Data Structures & Program Design	4	-	1	5	4	-	1	5	20	80	-	-	100
3 BECSE209P	Data Structures & Program Design Lab	-	2	-	2	-	1	-	1	-	-	25	25	50
4 BECSE210T	Operating System	4	-	1	5	4	-	1	5	20	80	-	-	100
5 BECSE210P	Operating System lab	-	2	-	2	-	1	-	1	-	-	25	25	50
6 BECSE211T	Theoretical Foundations of Computer Science	4	-	1	5	4	-	1	5	20	80	-	-	100
7 BECSE212T	System Programming	4	-	1	5	4	-	1	5	20	80	-	-	100
8 BECSE213P	Computer Workshop -2 Lab	-	2	-	2	-	2	-	2	-	-	25	25	50
Total		19	6	5	30	19	4	5	28	100	400	75	75	650

FOUR YEAR BACHELOR OF ENGINEERING (B.E.) DEGREE COURSE
SEMESTER: FIFTH
BRANCH: COMPUTER SCIENCE & ENGINEERING

Sr. No.	Subject	Workload				Credit				Marks				
		L	P	T	Total	L	P	T	Total	Theory		Practical		Total Marks
										Sess.	Univ.	Sess.	Uni	
1 BECSE301T	Data Communication	3	-	1	4	3	-	1	4	20	80	-	-	100
2 BECSE302T	Object Oriented Programming	4	-	1	5	4	-	1	5	20	80	-	-	100
3 BECSE302P	Object Oriented Programming Lab	-	2	-	2	-	1	-	1	-	-	25	25	50
4 BECSE303T	Database Management System	4	-	1	5	4	-	1	5	20	80	-	-	100
5 BECSE303P	Database Management System Lab	-	2	-	2	-	1	-	1	-	-	25	25	50
6 BECSE304T	Computer Graphics	4	-	1	5	4	-	1	5	20	80	-	-	100
7 BECSE305T	Design & Analysis of Algorithms	4	-	1	5	4	-	1	5	20	80	-	-	100
8 BECSE305P	Design & Analysis of Algorithms lab	-	2	-	2	-	1	-	1	-	-	25	25	50
Total		19	6	5	30	19	3	5	27	100	400	75	75	650

FOUR YEAR BACHELOR OF ENGINEERING (B.E.) DEGREE COURSE
SEMESTER: SIXTH
BRANCH: COMPUTER SCIENCE & ENGINEERING

Sr. No.	Subject	Workload				Credit				Marks				
		L	P	T	Total	L	P	T	Total	Theory		Practical		Total Marks
										Sess.	Univ.	Sess.	Uni	
1 HECSE309T	Artificial Intelligence	4	-	1	5	4	-	1	5	20	80	-	-	100
2 BECSE307T	Design Patterns	4	-	1	5	4	-	1	5	20	80	-	-	100
3 BECSE307D	Design Patterns lab	-	2	-	2	-	1	-	1	-	-	25	25	50
4 HECSE308T	Communication Skill	3	-	1	4	3	-	1	4	20	80	-	-	100
5 HECSE309T	Software Engineering & Project Management	4	-	1	5	4	-	1	5	20	80	-	-	100
6 BECSE310T	Computer Networks	4	-	1	5	4	-	1	5	20	80	-	-	100
7 BECSE310P	Computer Networks Lab	-	2	-	2	-	1	-	1	-	-	25	25	50
8 BECSE311P	Mini Project	-	2	-	2	-	2	-	2	-	-	25	25	50
Total		19	6	5	30	19	4	5	28	100	400	75	75	650

FOUR YEAR BACHELOR OF ENGINEERING (B.E.) DEGREE COURSE
SEMESTER: SEVENTH
BRANCH: COMPUTER SCIENCE & ENGINEERING

Sr. No.	Subject	Workload				Credit				Marks				
		L	P	T	Total	L	P	T	Total	Theory		Practical		Total Marks
										Sess.	Univ.	Sess.	Uni	
1 BECSE401T	Data Warehousing & Mining	4	-	1	5	4	-	1	5	20	80	-	-	100
2 BECSE401P	Data Warehousing & Mining Lab	-	2	-	2	-	1	-	1	-	-	25	25	50
3 BECSE402T	Language Processor	4	-	1	5	4	-	1	5	20	80	-	-	100
4 BECSE402P	Language Processor Lab	-	2	-	2	-	1	-	1	-	-	25	25	50
5 BECSE403T	ELECTIVE-I	4	-	1	5	4	-	1	5	20	80	-	-	100
6 BECSE404T	ELECTIVE-II	4	-	1	5	4	-	1	5	20	80	-	-	100
7 BECSE405P	Project and Seminar	-	3	-	3	-	3	-	3	-	-	25	25	50
Total		16	7	4	27	16	5	4	25	80	320	75	75	550

Elective I: TCP and IP, Advanced Computer Architecture, Big Data Analysis & Business Intelligence, Parallel and Network Algorithm.

Elective II: Computational Geometry, Mobile Computing, Real Time Operating System, Software Architecture, Mainframe Technologies

FOUR YEAR BACHELOR OF ENGINEERING (B.E.) DEGREE COURSE
SEMESTER: EIGHTH
BRANCH: COMPUTER SCIENCE & ENGINEERING

Sr. No.	Subject	Workload				Credit				Marks				
		L	P	T	Total	L	P	T	Total	Theory		Practical		Total Marks
										Sess.	Univ.	Sess.	Uni	
1 BECSE406T	Distributed Operating system	4	-	1	5	4	-	1	5	20	80	-	-	100
2 BECSE406P	Distributed Operating system Lab	-	2	-	2	-	1	-	1	-	-	25	25	50
3 BECSE407T	Information & Cyber Security	4	-	1	5	4	-	1	5	20	80	-	-	100
4 BECSE407P	Information & Cyber Security Lab	-	2	-	2	-	1	-	1	-	-	25	25	50
5 BECSE408T	ELECTIVE-III	4	-	1	5	4	-	1	5	20	80	-	-	100
6 BECSE409T	ELECTIVE-IV	4	-	1	5	4	-	1	5	20	80	-	-	100
7 BECSE410P	Project & Seminar	-	3	-	3	-	3	-	3	-	-	25	25	50
Total		16	9	4	29	16	7	4	27	80	320	125	125	650

Elective III: Pattern Recognition, Soft Computing Techniques, Optimization Techniques, Clustering & Cloud Computing

Elective IV: Advance Wireless Sensor Network, Digital Image Processing, Natural Language Processing, Digital Forensic.

building of student in various functional areas of business management. These *Electives* will give the students a chance to study a subject according to his/her area of interest and will also help in developing his/her personality. Two elective courses are to be selected by a student from the groups of electives before commencement of 3rd Semester of the program.

A student is required to Select *Any Two* Electives as following:

- Either both the Electives from Core Group
- OR
- One Elective each from Core Group and Complementary Group

Core Group	Marketing Management
	Financial Management
	Human Resource Management
Complementary Group	Operations Management
	Service Sector Management

Note: The affiliated Management Institutes / Colleges/ Department shall declare the Elective/Specialization it is offering before the commencement of admission process of Semester -I in their Information Brochure and website and communicate the same to the University well in advance. The Institute will offer the Specialization proposed only if minimum **FIVE** students opt for the same.

10. Credit System of Evaluation:

- a. Courses offered, contact hours, credits attached and allocation of marks shall be as follows:

Semester-I

Course Code	Course Name	Internal / University Examination	Instruction Hours	Tutorial Hours	Total Hours	Marks			Credits
						Semester End Exam.	Internal Assessment	Total	
MBCI-1	Principles of Management	Uni.	30	10	40	80	20	100	4
MBCI-2	Managerial Economics	Uni.	30	10	40	80	20	100	4
MBCI-3	Accounting for Managers	Uni.	25	15	40	80	20	100	4
MBCI-4	Business Legislations	Uni.	30	10	40	80	20	100	4
MBCI-5	Business Communication and Information Systems	Uni.	30	10	40	80	20	100	4
MBCI-6	Research Methodology and Quantitative Techniques	Uni.	25	15	40	80	20	100	4
Total			170	70	240	480	120	600	24

Semester-II

Course Code	Course Name	Internal/ University Examination	Instruction Hours	Tutorial Hours	Total Hours	Marks			Credits
						Semester End Exam.	Internal Assessment	Total	
MBCII-1	Human Resource Management & Organizational Behaviour	Uni.	30	10	40	80	20	100	4
MBCII-2	Financial Management	Uni.	25	15	40	80	20	100	4
MBCII-3	Marketing Management	Uni.	30	10	40	80	20	100	4
MBCII-4	Operations Management	Uni.	25	15	40	80	20	100	4
MBCII-5	Cost Accounting	Uni.	25	15	40	80	20	100	4
MBCII-6	Economic Environment of Business	Uni.	30	10	40	80	20	100	4
Total			165	75	240	480	120	600	24

Semester-III

Course Code	Course Name	Internal/ University Examination	Instruction Hours	Tutorial Hours	Total Hours	Marks			Credits
						Semester End Exam.	Internal Assessment	Total	
MBCIII-1	Strategic Management	Uni.	30	10	40	80	20	100	4
MBCIII-2	Summer Internship Project Assessment	Uni.	10	30	40	00	100	100	4
MBFIII-1	Project Management OR Environment	Uni.	30	10	40	80	20	100	4
MBEIII-11	Elective I - Paper 1	Uni.	30	10	40	80	20	100	4
MBEIII-12	Elective I - Paper 2	Uni.	30	10	40	80	20	100	4
MBEIII-21	Elective II - Paper 1	Uni.	30	10	40	80	20	100	4
MBEIII-22	Elective II - Paper 2	Uni.	30	10	40	80	20	100	4
Total			190	90	280	480	220	700	28

Note: One Foundation Course is to be selected by the student from MBFIII-1 and Two Elective Groups to be selected in the manner mentioned above.

Semester-IV

Course Code	Course Name	Internal/ University Examination	Instruction Hours	Tutorial Hours	Total Hours	Marks			Credits
						Semester End Exam.	Internal Assessment	Total	
MBCIV-1	Business Ethics & Corporate Governance	Uni.	30	10	40	80	20	100	4
MBCIV-2	Entrepreneurship Development	Uni.	30	10	40	80	20	100	4
MBCIV-3	Project Work	Uni.		40	40	150	50	200	8
MBFIV-2	International Business Management OR Agri-Business Management	Uni.	30	10	40	80	20	100	4
MBEIV-13	Elective I - Paper 3	Uni.	30	10	40	80	20	100	4
MBEIV-23	Elective II - Paper 3	Uni.	30	10	40	80	20	100	4
Total			150	90	240	550	150	700	28

Note: One Foundation Course is to be selected by the student from MBFIV-2.