



SARVEPALLI RADHAKRISHNAN UNIVERSITY, BHOPAL

Scheme of examination as per AICTE model Curriculum w.e.f July 2019

Grading System

Course Name – Bachelor of Engineering (Electronics & Instrumentation)

Semester III / Year : II

Scheme for 2019 Admitted Students onwards

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted						Hours/Week			Credit	Total Marks
				Theory			Practical			L	T	P		
				End Sem.	Mid Sem	Quiz, Assignment	End Sem	Lab work	Assignment / Quiz					
1	BE31	BSC	ENGINEERING MATHEMATICS (Probability Distribution & Statistics)	60	30	10	-	-	-	3	1	-	4	100
2	EI 31	CORE	SIGNALS & SYSTEMS	60	30	10	-	-	-	3	1	-	4	100
3	EI 32	CORE	ELECTRONICS DEVICES	60	30	10	30	10	10	2	1	2	4	150
4	EI 33	CORE	DIGITAL SYSTEM DESIGN	60	30	10	30	10	10	2	1	4	5	150
5	EI 34	CORE	NETWORK THEORY	60	30	10	30	10	10	3	1	2	5	150
6	BE34	LC	SOFTWARE LAB-I(JAVA PROGRAMMING)	-	-	-	50	50	50	0	0	4	2	150
TOTAL				300	150	50	140	80	80	13	5	12	24	800
7	BE-35	PDFS	PROFESSIONAL DEVELOPMENT FINISHING SCHOOL-LEVEL-I	MANDATORY COURSE (NON CREDIT)										

L: Lecture

T:Tutorial

P:Practical



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Grading System

Course Name – Bachelor of Engineering (Electronics & Instrumentation)

Semester IV / Year : II

Scheme for 2019 Admitted Students onwards

S. No.	Subject Code	Category Code	Subject Name	Maximum Marks Allotted						Hours/Week			Credit	Total Marks
				Theory			Practical			L	T	P		
				End Sem.	Mid Sem	Quiz, Assignment	End Sem	Lab work	Assignment / Quiz					
1	EI41	CORE	SENSORS AND TRANSDUCERS	60	30	10	-	-	-	2	1	-	3	100
2	EI42	CORE	ANALOG CIRCUITS	60	30	10	30	10	10	2	1	-	3	150
3	EI43	CORE	MICROCONTROLLERS	60	30	10	30	10	10	3	1	2	5	150
4	EI44	CORE	ELECTRONICS & INSTRUMENTATION	60	30	10	30	10	10	3	1	2	5	150
5	BE41	EIHS	ENGINEERING ECONOMICS AND ACCOUNTING	60	30	10	-	-	-	3	1	2	5	100
6	BE42	LC	SOFTWARE LAB-II (MATLAB/SCILAB/DOT NET)	-	-	-	50	50	50	0	0	6	3	150
TOTAL				300	150	50	140	80	80	13	5	12	24	800
7	BE 43	MC	ENVIRONMENT SCIENCE	MANDATORY COURSE (NON CREDIT)										
8	BE 44	PDFS	PROFESSIONAL DEVELOPMENT FINISHING SCHOOL-LEVEL-II	MANDATORY COURSE (NON CREDIT)										

INDUSTRIAL TRAINING (2 WEEKS) TO BE CARRIED OUT AT THE END OF IV SEM. EXAM AND EVALUATED IN V SEMESTER

L: Lecture

T: Tutorial

P: Practical



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Course Name –Bachelor of Engineering (Electronics & Instrumentation)

Semester V / Year : III

Scheme for 2019 Admitted Students onwards

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted						Hours/Week			Credit	Total Marks	
				Theory			Practical			L	T	P			
				End Sem.	Mid Sem	Quiz, Assignment	End Sem	Lab work	Assignment / Quiz						
1	EI51	PCC	DEPARTMENTAL ELECTIVE-I	60	30	10	-	-	-	3	1	-	4	100	
2	EI52	EIOE	OPEN ELECTIVE-I	60	30	10	-	-	-	3	1	-	4	100	
3	EI53	CORE	PROCESS INSTRUMENTATION	60	30	10	30	10	10	2	1	4	5	150	
4	EI54	CORE	DIGITAL SIGNAL PROCESSING	60	30	10	30	10	10	2	1	4	5	150	
5	EI55	EIEL	PROGRAM ELEITIVE -1	60	30	10	30	10	10	3	1	2	5	150	
6	EI56	LC	INDUSTRIAL TRAINING (TWO WEEKS)	-	-	-	50	50	50	0	0	2	1	150	
TOTAL				300	150	50	110	110	80	13	5	12	24	800	
7	BE 52	MC	ESSENCE OF INDIAN KNOWLEDGE TRADITION				MANDATORY COURSE (NON CREDIT)								
8	BE 53	PDFS	PROFESSIONAL DEVELOPMENT FINISHING SCHOOL-LEVEL-III				MANDATORY COURSE (NON CREDIT)								

L: Lecture

T:Tutorial

P:Practical

DEPARTMENTAL ELECTIVE-I		PROGRAM ELEITIVE -1		OPEN ELECTIVE-I	
EI51(A)	INDUSTRIAL AUTOMATION	EI55(A)	CMOS DESIGN	EI52(A)	VIRTUAL INSTRUMENTATION
EI51(B)	ANALOG AND DIGITAL COMMUNICATION(ADC)	EI55(B)	BIOMEDICAL ELECTRONICS	EI52(B)	COMMUNICATION ENGINEERING
EI51(C)	BIOMEDICAL INSTRUMENTATION	EI55(C)	CONTROL SYSTEM	EI52(C)	EDA TOOLS



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Semester VI / Year : III

Scheme for 2019 Admitted Students onwards

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted						Hours/Week			Credit	Total Marks	
				Theory			Practical			L	T	P			
				End Sem.	Mid Sem	Quiz, Assignment	End Sem	Lab work	Assignment / Quiz						
1	EI61	PCC	DEPARTMENTAL ELECTIVE-II	60	30	10	-	-	-	3	1	-	4	100	
2	EI62	CORE	VLSI CIRCUITS & SYSTEMS	60	30	10	-	-	-	2	1	4	5	150	
3	EI63	CORE	POWER ELECTRONICS	60	30	10	20	20	10	2	1	4	5	150	
4	EI64	CORE	EMBEDDED SYSTEM	60	30	10	20	20	10	3	1	2	5	150	
5	EI65	OE-2	OPEN ELECTIVE-II	60	30	10	20	20	10	3	1	-	4	100	
6	EI66	PROJECT	MINI PROJECT/ELECTRONIC DESIGN WORKSHOP	-	-	-	50	50	50	0	0	2	1	150	
TOTAL				300	150	50	110	110	80	13	5	12	24	800	
7	BE 61	PDFS	PROFESSIONAL DEVELOPMENT FINISHING SCHOOL - LEVEL - IV				MANDATORY COURSE (NON CREDIT)								

L: Lecture

T: Tutorial

P: Practical

DEPARTMENTAL ELECTIVE-II	
EI61(A)	NANO ELECTRONICS
EI61(B)	INTELLIGENT INSTRUMENTATION
EI61(C)	DSP PROCESSORS

OPEN ELECTIVE-II	
EI65(A)	SCADA SYSTEM
EI65(B)	Fuzzy Logic & Neural Networks
EI65(C)	NUCLEAR INSTRUMENTATION



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Semester VII / Year : IV

Scheme for 2019 Admitted Students onwards

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted						Hours/ Week			Credit	Total Marks
				Theory			Practical			L	T	P		
				End Sem.	Mid Sem	Quiz, Assignment	End Sem	Lab work	Assignment / Quiz					
1	EI71	EIEL	PROGRAM ELECTIVE -II-	60	30	10	30	10	10	3	1	2	5	150
2	EI72	EIEL	PROGRAM ELECTIVE -III-	60	30	10	-	-	-	2	1	-	3	100
3	EI73	EIEL	PROGRAM ELECTIVE -IV	60	30	10	30	10	10	3	1	2	5	150
4	EI74	OE	OPEN ELECTIVE -III	60	30	10				3	1	-	4	100
5	EI75	PROJECT	MAJOR PROJECT -I	-	-	-	100	50	50	-	-	8	4	200
6	EI76	HSMC	OPERATIONS RESEARCH	60	30	10	-	-	-	2	1	-	3	100
TOTAL				300	150	50	160	70	70	13	5	12	24	800

L: Lecture

T:Tutorial

P:Practical

Program Elective –II	Program Elective –III	Program Elective –IV	Open Elective -III
EI71(A) -SIMULATION &MODELING	EI72(A) -DIGITAL IMAGE PROCESSING	EI73(A) -ANALYTICAL AND INDUSTRIAL INSTRUMENTATION	EI74(A) -INTERNET OF THINGS
EI71(B)-DATA ACQUISITIONS SYSTEMS	EI72(B)-MANAGEMENT INFORMATION SYSTEM	EI73(B) ROBOTICS	EI74(B)- DIGITAL CONTROL SYSTEM
EI71(C) -OPTICAL INSTRUMENTS AND SENSORS	EI72(C)-ADVANCE INDUSTRIAL ELECTRONICS	EI73(C)- SAFETY & RELIABILITY	EI74(C)-MEMORY TECHNOLOGIES



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Semester VIII / Year : IV

Scheme for 2019 Admitted Students onwards

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Hours/ Week			Credit	Total Marks
				Theory			Practical		L	T	P		
				End Sem.	Mid Sem	Quiz, Assignments	End Sem	Term work					
1	EI81	PROJECT	MAJOR PROJECT - 2/ INTERNSHIP	-	-	-	600	200	-	-	30	15	800
TOTAL				-	-	-	600	200	-	-	30	15	800

L: Lecture

T:Tutori

P:Practical