

SCHEME OF STUDY

KARNATAKA STATE BOARD OF TECHNICAL EXAMINATION, BENGALURU.

Teaching and Examination Scheme for Diploma Programme

Programme Name: **ELECTRONICS & COMMUNICATION ENGINEERING**

Pattern: **FULLTIME**

Programme Code: **EC**

Scheme: **C-15**

Duration of Programme: **3 years (6 semesters)**

SEMESTER - I

Sl. no	Course Name	Course / QP code	Teaching Scheme					Examination Scheme					
			Contact Hours					Exam Paper Duration in Hrs	Semester End Exam		CIE Marks	Total Marks	Min Marks for passing (including CIE marks)
			TH	TU	PR	Total	Credit		Max Marks	Min Marks			
Theory													
1	ENGINEERING MATHEMATICS - I	15SC01M	4	-	-	4	4	3	100	35	25	125	45
2	APPLIED SCIENCE	15SC03S	4	-	-	4	4	3	100	35	25	125	45
3	BASICS OF ELECTRICAL & ELECTRONIC ENGG.	15EC11T	4	-	-	4	4	3	100	35	25	125	45
Practical													
4	APPLIED SCIENCE LAB	15SC04P		2	4	6	3	3	50	25	25	75	35
5	BASICS OF ELECTRICAL & ELECTRONIC ENGG LAB	15EC12P		2	4	6	3	3	50	25	25	75	35
6	CONCEPTS OF COMPUTER LAB	15EC13P		2	4	6	3	3	50	25	25	75	35
Total			12	6	12	30	21		450	180	150	600	240

1 Hr Theory = 1 Credit; 2Hrs Practical/TU = 1 Credit.

QP Code- Question Paper code: TH-Theory Hours: TU-Tutorial: PR-Practical

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SEMESTER - II

Sl. no	Course Name	Course / QP code	Teaching Scheme					Examination Scheme					
			Contact Hours					Exam Paper Duration in Hrs	Semester End Exam		CIE Marks	Total Marks	Min Marks for passing (including CIE marks)
			TH	TU	PR	Total	Credit		Max Marks	Min Marks			
Theory													
1	ENGINEERING MATHEMATICS - II	15SC02M	4	-	-	4	4	3	100	35	25	125	45
2	COMMUNICATION SKILLS IN ENGLISH	15CPO1E	4	-	-	4	4	3	100	35	25	125	45
3	BASICS OF SEMICONDUCTOR DEVICES	15EC21T	4	-	-	4	4	3	100	35	25	125	45
Practical													
4	SEMICONDUCTOR DEVICES LAB	15EC22P		2	4	6	3	3	50	25	25	75	35
5	DIGITAL ELECTRONICS LAB-I	15EC23P		2	4	6	3	3	50	25	25	75	35
6	MATHEMATICAL SIMULATION LAB	15EC24P		2	4	6	3	3	50	25	25	75	35
Total			12	6	12	30	21		450	180	150	600	240

1 Hr Theory = 1 Credit: 2Hrs Practical/TU = 1 Credit.

QP Code- Question Paper code: TH-Theory Hours: TU-Tutorial: PR-Practical.

SEMESTER - III**SCHEME OF STUDY****KARNATAKA STATE BOARD OF TECHNICAL EXAMINATION, BENGALURU.**

Teaching and Examination Scheme for Diploma Programme

Programme Name: **ELECTRONICS & COMMUNICATION ENGINEERING**Scheme: **C-15**Pattern: **FULL TIME**Duration of the Programme: **3 years (6 semesters)**Programme Code: **EC**

Sl. No	Course Name	Course / QP code	Teaching Scheme					Examination Scheme					
			Contact Hours/Week					Exam Paper Duration in Hrs	Semester End Exam		CIE Marks	Total Marks	Min Marks for passing (including CIE marks)
			TH	TU	PR	Total	Credit		Max Marks	Min Marks			
Theory													
1	ANALOG ELECTRONIC CIRCUITS	15EC31T	4	-	-	4	4	3	100	35	25	125	45
2	DIGITAL ELECTRONICS	15EC32T	4	-	-	4	4	3	100	35	25	125	45
3	ANALOG COMMUNICATION	15EC33T	4	-	-	4	4	3	100	35	25	125	45
4	ELECTRONIC MEASUREMENTS AND INSTRUMENTATION	15EC34T	4	-	-	4	4	3	100	35	25	125	45
Practical													
5	ANALOG ELECTRONICS AND COMMUNICATION LAB	15EC35P	-	2	4	6	3	3	50	25	25	75	35
6	DIGITAL ELECTRONICS LAB-II	15EC36P	-	2	4	6	3	3	50	25	25	75	35
7	C- PROGRAMMING LAB	15EC37P	-	2	4	6	3	3	50	25	25	75	35
Total			16	6	12	34	25		550	215	175	725	285

1 Hr Theory = 1 Credit: 2Hrs Practical/TU = 1 Credit.

QP Code- Question Paper code: TH-Theory Hours: TU-Tutorial: PR-Practical

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Sl. no	Course Name	Course / QP code	Teaching Scheme					Examination Scheme					
			Contact Hours/Week					Exam Paper Duration in Hrs	Semester End Exam		CIE Marks	Total Marks	Min Marks for passing (including CIE marks)
			TH	TU	PR	Total	Credit		Max Marks	Min Marks			
Theory													
1	PROFESSIONAL ETHICS & INDIAN CONSTITUTION	15EC41T	4	-	-	4	4	3	100	35	25	125	45
2	MICROCONTROLLERS & APPLICATIONS	15EC42T	4	-	-	4	4	3	100	35	25	125	45
3	DIGITAL COMMUNICATION	15EC43T	4	-	-	4	4	3	100	35	25	125	45
4	DATA COMMUNICATION & COMPUTER NETWORKS	15EC44T	4	-	-	4	4	3	100	35	25	125	45
Practical													
5	PROFESSIONAL PRACTICE LAB	15EC45P	-	2	4	6	3	3	50	25	25	75	35
6	MICROCONTROLLER LAB	15EC46P	-	2	4	6	3	3	50	25	25	75	35
7	DIGITAL COMMUNICATION AND NETWORKING LAB	15EC47P	-	2	4	6	3	3	50	25	25	75	35
Total			16	6	12	34	25		550	215	175	725	285

1 Hr Theory = 1 Credit: 2Hrs Practical/TU = 1 Credit.

QP Code- Question Paper code: TH-Theory Hours: TU-Tutorial: PR-Practical.

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Sl. no	Course Name	Course / QP code	Teaching Scheme					Examination Scheme					
			Contact Hours					Exam Paper Duration in Hrs	Semester End Exam		CIE Marks	Total Marks	Min Marks for passing (including CIE marks)
			TH	TU	PR	Total	Credit		Max Marks	Min Marks			
Theory													
1	ORGANIZATION MANAGEMENT	15EC51T	4	-	-	4	4	3	100	35	25	125	45
2	ARM CONTROLLER	15EC52T	4	-	-	4	4	3	100	35	25	125	45
3	ADVANCED COMMUNICATION	15EC53T	4	-	-	4	4	3	100	35	25	125	45
4	APPLICATIONS OF ELECTRONICS ENGINEERING	15EC54T	4	-	-	4	4	3	100	35	25	125	45
Practical													
5	ARM CONTROLLER LAB	15EC55P	-	2	4	6	3	3	50	25	25	75	35
6	PCB DESIGN AND FABRICATION LAB	15EC56P	-	2	4	6	3	3	50	25	25	75	35
7	ELECTRONICS SERVICING LAB	15EC57P	-	2	4	6	3	3	50	25	25	75	35
8	PROJECT WORK-I	15EC58P	-	1	2	3	-	-	-	-	25	25	-
Total			16	7	14	37	25		550	215	200	750	285

1 Hr Theory = 1 Credit; 2Hrs Practical/TU = 1 Credit.

QP Code- Question Paper code: TH-Theory Hours: TU-Tutorial: PR-Practical.

SEMESTER - VI**SCHEME OF STUDY****KARNATAKA STATE BOARD OF TECHNICAL EXAMINATION, BENGALURU.**

Teaching and Examination Scheme for Diploma Programme

Programme Name: **ELECTRONICS & COMMUNICATION ENGINEERING**Scheme: **C-15**Pattern: **FULLTIME**Duration of the Programme: **3 years (6 semesters)**Programme Code: **EC**

Sl. no	Course Name	Course / QP code	Teaching Scheme					Examination Scheme						
			Contact Hours/Week					Exam Paper Duration in Hrs	Semester End Exam		CIE Marks	Total Marks	Min Marks for passing (including CIE marks)	
			TH	TU	PR	Total	Credit		Max Marks	Min Marks				
Theory														
1	INDUSTRIAL AUTOMATION	15EC61T	4	-	-	4	4	3	100	35	25	125	45	
2	EMBEDDED SYSTEMS	15EC62T	4	-	-	4	4	3	100	35	25	125	45	
3	ELECTIVE-II a) MEDICAL ELECTRONICS b) ADVANCED MICROPROCESSORS c) OOPs USING C++	15EC63A 15EC63B 15EC63C	4	-	-	4	4	3	100	35	25	125	45	
Practical														
4	INDUSTRIAL AUTOMATION LAB	15EC64P	-	2	4	6	3	3	50	25	25	75	35	
5	VERILOG LAB	15EC65P	-	2	4	6	3	3	50	25	25	75	35	
6	PROJECT WORK-II	15EC66P	-	2	4	6	3	3	50	25	25	75	35	
7	INPLANT TRAINING	15EC67P	-	-	4	4	2	-	-	25	25	25	-	
Total			12	6	16	34	23		450	205	175	625	240	

1 Hr Theory = 1 Credit: 2Hrs Practical/TU = 1 Credit.

QP Code- Question Paper code: TH-Theory Hours: TU-Tutorial: PR-Practical.