D. Y. PATIL AGRICULTURE AND TECHNICAL UNIVERSITY, TALSANDE, KOLHAPUR
SCHOOL OF ENGINEERING AND TECHNOLOGY

SYLLABUS STRUCTURE

B. Tech. (ELECTRONICS AND TELECOMMUNICATION)

INDEX

SYLLABUS STRUCTURE

B. Tech. (ELECTRONICS AND TELECOMMUNICATION)

DISTRIBUTION OF SUBJECT GROUPS

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B. Tech. (ELECTRONICS AND TELECOMMUNICATION)

DISTRIBUTION OF COURSES IN SUBJECT GROUPS

1) BASIC SCIENCE COURSES (BSC)

Sr. No.	Course Code	Corse Type	Name of Course	Teaching Scheme per week			
				L	T	P	Credits
1.			Applied Mathematics – I	3	1	-	04
2.			Applied Chemistry	3	-	-	03
3.			Applied Chemistry Lab.	-	-	2	01
4.			Applied Mathematics – II	3	1	-	04
5.			Applied Physics	3	-	-	03
6.			Applied Physics Lab.	-	-	2	01
7.			Engineering Mathematics– III	3	1	-	04
						Total Credits	**20**

2) ENGINEERING SCIENCE COURSES (ESC)

Sr. No.	Course Code	Corse Type	Name of Course	Teaching Scheme per week			
				L	T	P	Credits
1.			Computer Programming in C	3	-	-	03
2.			Computer Programming in C lab	-	-	2	01
3.			Engineering Mechanics	3	-	-	03
4.			Engineering Mechanics Lab.	-	-	2	01
5.			Fundamentals of Electronics and Electrical	3	-	-	03
6.			Fundamentals of Electronics and Electrical lab	-	-	2	01
7.			Workshop Practice I	-	-	2	01
8.			Object Oriented Programming	3	-	-	03
9.			Object Oriented Programming Lab.	-	-	2	01
10.			Engineering Drawing	2	-	-	02
11.			Engineering Drawing Lab	-	-	4	02
12.			Workshop Practice II	-	-	2	01
13.			Circuit simulation	-	-	2	01
14.			Programming Lab	-	-	2	01
						Total Credits	**24**

3) Humanities & Social Science Including Management Courses (HSSMC)

Sr. No.	Course Code	Corse Type	Name of Course	Teaching Scheme per week			
				L	T	P	Credits
1.			Social Innovation	-	1	2	02
2.			Foreign language (German/Japanese/ Russian) (Non Credit)	1	-	-	-
3.			Engineering Exploration	-	-	4	02
4.			Professional Communication	2	-	-	02
5.			Professional Communication Lab	-	-	2	01
6.			Industrial Management	3	-	-	03
7.			Project Management and Economics	3	-	-	03
				Total Credits			**13**

4) PROFESSIONAL CORE COURSES (PCC)

Sr. No.	Course Code	Corse Type	Name of Course	Teaching Scheme per week			
				L	T	P	Credits
1.			Electronics Circuits Analysis & Design – I	3	-	-	03
2.			Electronics Circuits Analysis & Design – I-Lab	-	-	2	01
3.			Analog Communication	3	-	-	03
4.			Analog Communication-Lab	-	-	2	01
5.			Data structures & algorithms	3	-	-	03
6.			Network Analysis	3	1	-	04
7.			Electronics Circuits Analysis & Design - II	3	-	-	03
8.			Electronics Circuits Analysis & Design - II-Lab	-	-	2	01
9.			Digital Communication	3	-	-	03
10.			Digital Communication-Lab	-	-	2	01
11.			Control System	3	1	-	04
12.			Signals and Systems	3	1	-	04
13.			Linear Integrated Circuit	3	-	-	03
14.			Linear Integrated Circuit-Lab	-	-	2	01
15.			Electromagnetic Engg.	3	-	-	03
16.			Fiber Optical Communication	3	-	-	03
17.			Fiber Optical Communication-Lab	-	-	2	01
18.			Microcontrollers	3	-	-	03
19.			Microcontrollers-Lab	-	-	2	01
20.			Power Electronics	3	-	-	03
21.			Power Electronics-Lab	-	-	2	01

			Wireless communication Networks	3	-	-	03
23.			Wireless communication Networks-Lab	-	-	2	01
24.			Digital design using VHDL	3	-	-	03
25.			Digital design using VHDL-Lab	-	-	2	01
26.			Embedded Systems	3	-	-	03
27.			Embedded Systems-Lab	-	-	2	01
28.			Advanced Communication	3	-	-	03
29.			Advanced Communication-Lab	-	-	2	01
				Total Credits			**67**

5) PROFESSIONAL ELECTIVE COURSES (PEC)

Sr. No.	Course Code	Corse Type	Name of Course	Teaching Scheme per week			
				L	T	P	Credits
1			Professional Elective-I	3	1	-	04
2			Professional Elective-II	3	1	-	04
3			Professional Elective-III	3	1	-	04
4			Professional Elective-IV	3	1	-	04
5			Professional Elective-V	3	1	-	04
6			Professional Elective-VI	3	-	-	03
				Total Credits			**23**

6) OPEN ELECTIVE COURSES (OEC)

Sr. No.	Course Code	Corse Type	Name of Course	Teaching Scheme per week			
				L	T	P	Credits
1			Open Elective-I	3	1	-	04
2			Open Elective-II	3	1	-	04
				Total Credits			**08**

7) SEMINAR/PROJECT/INTERNSHIP/INDUSTRIAL TRAINING

Sr. No.	Course Code	Corse Type	Name of Course	Teaching Scheme per week			
				L	T	P	Credits
1.			Mini Project-I	-	-	2	01
2.			Mini Project-II	-	-	2	01
3.			Mini Project-III	-	-	2	01
4.			Mini Project-IV	-	-	2	01

5.			Project Phase-I	-	-	4	02
6.			Industrial Internship	4-6 Week			04
7.			Project Phase-II	-	-	4	02
				Total Credits			**12**

8) MANDATORY COURSES

Sr. No.	**Course Code**	**Corse Type**	**Name of Course**	**Teaching Scheme per week**			
				L	**T**	**P**	**Credits**
1			Democracy, Elections and Good Governance	2	-	-	NC
2			Environmental Studies	2	-	-	NC
3			Constitution of India	3	-	-	NC
				Total Credits			**00**

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SUMMARY OF DISTRIBUTION OF COURSES IN ALL SEMESTER

Sr. No.	Category	No. of Subjects in Each Category	Suggested Breakup of Credits by AICTE	Total
1	BASIC SCIENCE COURSES (BSC)	07	25	20
2	ENGINEERING SCIENCE COURSES (ESC)	14	24	24
3	Humanities & Social Science Including Management Courses (HSSMC)	07	12	13
4	PROFESSIONAL CORE COURSES (PCC)	30	48	67
5	PROFESSIONAL ELECTIVE COURSES (PEC)	06	18	23
6	OPEN ELECTIVE COURSES (PEC)	02	18	08
7	SEMINAR/PROJECT/INTERNSHIP/INDUSTRIAL TRAINING	07	15	12
8	MANDATORY COURSES	02	NC	--
			160	**167**

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B. Tech. (ELECTRONICS AND TELECOMMUNICATION)

Semester wise Distribution of Courses

No. of Courses	SEMESTER							
	I	**II**	**III**	**IV**	**V**	**VI**	**VII**	**VIII**
1	Applied Mathematics-I	Applied Mathematics-II	Engineering Mathematics-III	Electronics Circuits Analysis & Design - II	Electromagnetic Engg	Wireless communication Networks	Embedded Systems	Advanced Communication
2	Applied Chemistry	Applied Physics	Electronics Circuits Analysis & Design - I	Digital Communication	Fiber Optical Communication	Digital design using VHDL	Professional Elective -III	Professional Elective -IV
3	Computer Programming in C	Object oriented Programming	Analog Communication	Control System	Microcontrollers	Industrial Management	Project Management and Economics	Professional Elective-V
4	Engineering Mechanics	Engineering Drawing	Data structures & algorithms	Signals and Systems	Power Electronics	Professional Elective-II	Open Elective II	Professional Elective -VI
5	Fundamental of electronics and Electrical	Engineering Exploration	Network Analysis	Linear Integrated Circuit	Professional elective-I	Open Elective I	Embedded Systems-Lab	Advanced Communication-Lab
6	Social Innovation	Professional Communication	Electronics Circuits Analysis &	Electronics Circuits Analysis & Design - II-	Fiber Optical Communication -Lab	Wireless communication Networks-Lab	Project Phase I	Project Phase II

			Design – I -Lab	Lab				
7	Applied Mathematics-I	Applied Mathematics-II	Analog Communication -Lab	Digital Communication-Lab	Microcontrollers-Lab	Digital design using VHDL-Lab	Internship (4-6Weeks)	--
8	Applied Chemistry Lab	Applied Physics Lab	Circuit Simulation	Linear Integrated Circuit-Lab	Power Electronics-Lab	Mini Project-IV	--	--
9	Computer Programming in C Lab	Object oriented Programming Lab	Mini Project-I	Mini Project-II	Programming Lab	--	--	--
10	Engineering Mechanics Lab	Engineering Drawing Lab		--	Mini Project-III	--	--	--
11	Fundamental of electronics and Electrical Lab	Professional; Communications Lab	---	---	---	--	--	--
12	Workshop Practice-I	Workshop Practice-II	-	-	-	---	---	---
13	Foreign language (German/Japanese/ Russian) (Non Credit)	-	--	--	--	-	-	-
14	Democracy, Election & Good Governance (Non Credit Mandatory Course)	Democracy, Election & Good Governance (Non Credit Mandatory Course)	Environmental studies	--	--	--	--	--
Credits	**23**	**22**	**21**	**21**	**22**	**20**	**21**	**17**

SYLLABUS STRUCTURE

B. Tech. (ELECTRONICS AND TELECOMMUNICATION)

SEMESTERWISE CREDITS & MARKS

SEM	CREDITS	NO. OF SUBJECT	TOTAL MARKS
I	23	14	825
II	22	13	775
III	21	10	650
IV	21	09	650
V	22	10	675
VI	20	08	600
VII	21	07	600
VIII	17	06	650
TOTAL	168	78	5425

Note:* Democracy, Election & Good Governance subject counted in II SEM.

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FIRST YEAR B. TECH. (ELECTRONICS AND TELECOMMUNICATION)
SEMESTER- I (Chemistry Group)

Sr. No.	Course Code	Corse Type	Name of Course	Teaching Scheme per week				Total Marks	Evaluation Scheme (Marks)					
									Theory			Practical		
				L	T	P	Credits		Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Applied Mathematics-I	3	-	-	03	100						
2			Applied Chemistry	3	-	-	03	100						
3			Computer Programming in C	3	-	-	03	100						
4			Engineering Mechanics	3	-	-	03	100						
5			Fundamental of electronics and Electrical	3	-	-	03	100						
6			Social Innovation	-	1	2	02	50						
7			Applied Mathematics-I	-	1	-	01	25						
8			Applied Chemistry Lab	-	-	2	01	25						
9			Computer Programming in C Lab	-	-	2	01	25						
10			Engineering Mechanics Lab	-	-	2	01	25						
11			Fundamental of electronics and Electrical Lab	-	-	2	01	25						
12			Workshop Practice Lab-I	-	-	2	01	50						
13			Foreign language (German/Japanese/ Russian) (Non	1	-	-	-	100						

			Credit)											
14			**Democracy, Election & Good Governance (Non Credit Mandatory Course)***											
			Total	**16**	**2**	**12**	**23**	**825**						

Note: 1) Tutorials & practical shall be conducted in batches with batch strength not exceeding 20 students.

2) SEE will be conducted for 100 marks and converted to 50 marks.

CSE: Continuous Semester Evaluation **SEE: Semester End Evaluation** **IPE: Internal Practical Evaluation**

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SCHEME OF TEACHING AND EXAMINATION
FIRST YEAR B. TECH. (ELECTRONICS AND TELECOMMUNICATION)
SEMESTER- II

Sr. No.	Course Code	Corse Type	Name of Course	Teaching Scheme per week				Total Marks	Evaluation Scheme (Marks)					
									Theory			Practical		
				L	T	P	Credits		Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Applied Mathematics-II	3	-	-	03	100						
2			Applied Physics	3	-	-	03	100						
3			Object oriented Programming	3	-	-	03	100						
4			Engineering Drawing	2	-	-	02	100						
5			Engineering Exploration	-	-	4	02	100						
6			Professional Communication	2	-	-	02	100						
7			Applied Mathematics-II	-	1	-	01	25						
8			Applied Physics Lab	-	-	2	01	25						
9			Object oriented Programming Lab	-	-	2	01	25						
10			Engineering Drawing Lab	-	-	4	02	25						
11			Professional; Communications Lab	-	-	2	01	25						
12			Workshop Practice Lab-II	-	-	2	01	50						
			Total	13	1	16	22	775						

Note: 1) Tutorials & practical shall be conducted in batches with batch strength not exceeding 20 students.

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CSE: Continuous Semester Evaluation SEE: Semester End Evaluation IPE: Internal Practical Evaluation

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SCHEME OF TEACHING AND EXAMINATION
FIRST YEAR B. TECH. (ELECTRONICS AND TELECOMMUNICATION)
SEMESTER- I (Physics Group)

Sr. No.	Course Code	Corse Type	Name of Course	Teaching Scheme per week				Total Marks	Evaluation Scheme (Marks)					
									Theory			Practical		
				L	T	P	Credits		Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Applied Mathematics-I	3	-	-	03	100						
2			Applied Physics	3	-	-	03	100						
3			Computer Programming in C	3	-	-	03	100						
4			Engineering Drawing	2	-	-	02	100						
5			Social Innovation	-	1	2	02	50						
6			Professional Communication	2	-	-	02	100						
7			Applied Mathematics-I	-	1	-	01	25						
8			Applied Physics Lab	-	-	2	01	25						
9			Computer Programming in C Lab	-	-	2	01	25						
10			Engineering Drawing Lab	-	-	4	02	25						
11			Professional; Communications Lab	-	-	2	01	25						
12			Workshop Practice Lab-I	-	-	2	01	50						
13			Foreign language (German/Japanese/ Russian) (Non Credit)	1	-	-	-	100						
14			Democracy, Election & Good Governance (Non Credit Mandatory Course)*											
			Total	14	2	14	22	825						

Note: 1) Tutorials & practical shall be conducted in batches with batch strength not exceeding 20 students.

2) SEE will be conducted for 100 marks and converted to 50 marks.

CSE: Continuous Semester Evaluation **SEE: Semester End Evaluation** **IPE: Internal Practical Evaluation**

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SCHEME OF TEACHING AND EXAMINATION
FIRST YEAR B. TECH. (ELECTRONICS AND TELECOMMUNICATION)
SEMESTER- II

Sr. No.	Course Code	Course Type	Name of Course	Teaching Scheme per week				Total Marks	Evaluation Scheme (Marks)					
									Theory			Practical		
				L	T	P	Credits		Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Applied Mathematics-II	3	-	-	03	100						
2			Applied Chemistry	3	-	-	03	100						
3			Object oriented Programming	3	-	-	03	100						
4			Engineering Mechanics	3	-	-	03	100						
5			Engineering Exploration	-	-	4	02	100						
6			Fundamental of electronics and Electrical	3	-	-	03	100						
7			Applied Mathematics-II	-	1	-	01	25						
8			Applied Chemistry Lab	-	-	2	01	25						
9			Object oriented Programming Lab	-	-	2	01	25						
10			Engineering Mechanics Lab	-	-	2	01	25						
11			Fundamental of electronics and Electrical Lab	-	-	2	01	25						
12			Workshop Practice Lab-II	-	-	2	01	50						
			Total	15	1	14	23	775						

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SCHEME OF TEACHING AND EXAMINATION

SECOND YEAR B. TECH. (ELECTRONICS AND TELECOMMUNICATION) SEMESTER- III

Sr. No.	Course Code	Corse Type	Name of Course	Teaching Scheme per week				Total Marks	Evaluation Scheme (Marks)					
									Theory			Practical		
				L	T	P	Credits		Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Engineering Mathematics-III	3	1	-	4	100						
2			Electronics Circuits Analysis & Design - I	3	-	-	3	100						
3			Analog Communication	3	-	-	3	100						
4			Data structures & algorithms	3	-	-	3	100						
5			Network Analysis	3	1	-	4	100						
6			Electronics Circuits Analysis & Design – I-Lab	-	-	2	1	50						
7			Analog Communication Lab	-	-	2	1	50						
8			Circuit Simulation	-	-	2	1	25						
9			Mini Project-I	-	-	2	1	25						
			Total	15	2	8	21	650						

11			*Environmental Studies	2	-	-	-	100						
				27 Hrs/Week										

Note: 1) Tutorials & practical shall be conducted in batches with batch strength not exceeding 20 students.
2) SEE will be conducted for 100 marks and converted to 50 marks.
3) *Environmental Studies project evaluation and theory examination will be conducted at the end of the year (along with Sem IV end examination)

CSE: Continuous Semester Evaluation **SEE: Semester End Evaluation** **IPE: Internal Practical Evaluation**
EPE: External Practical Examination **IOE: Internal Oral Evaluation** **EOE: External Oral Examination**

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SCHEME OF TEACHING AND EXAMINATION

SECOND YEAR B. TECH. (ELECTRONICS AND TELECOMMUNICATION) SEMESTER- IV

Sr. No.	Course Code	Corse Type	Name of Course	Teaching Scheme per week				Total Marks	Evaluation Scheme (Marks)					
									Theory			Practical		
				L	T	P	Credits		Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Electronics Circuits Analysis & Design - II	3	-	-	03	100						
2			Digital Communication	3	-	-	03	100						
3			Control System	3	1	-	04	100						
4			Signals and Systems	3	1	-	04	100						
5			Linear Integrated Circuit	3	-	-	03	100						
6			Electronics Circuits Analysis & Design - II - Lab	-	-	2	01	50						
7			Digital Communication-Lab	-	-	2	01	50						
8			Linear Integrated Circuit-Lab	-	-	2	01	25						

9			Mini Project-II	-	-	2	01	25						
			Total	15	2	8	21	650						
				25 Hrs/Week										

Note: 1) Tutorials & practical shall be conducted in batches with batch strength not exceeding 20 students.
2) SEE will be conducted for 100 marks and converted to 50 marks.
3) * Environmental Studies project evaluation & theory examination will be conducted at the end of the year (along with Sem IV end examination)

CSE: Continuous Semester Evaluation **SEE: Semester End Evaluation** **IPE: Internal Practical Evaluation**
EPE: External Practical Examination **IOE: Internal Oral Evaluation** **EOE: External Oral Examination**

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SCHEME OF TEACHING AND EXAMINATION

THIRD YEAR B. TECH. (ELECTRONICS AND TELECOMMUNICATION) SEMESTER- V

Sr. No.	Course Code	Corse Type	Name of Course	Teaching Scheme per week				Total Marks	Evaluation Scheme (Marks)					
									Theory			Practical		
				L	T	P	Credits		Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Electromagnetic Engg	3	1	-	04	100						
2			Professional elective-I	3	1	-	04	100						
3			Fiber Optical Communication	3	-	-	03	100						
4			Microcontrollers	3	-	-	03	100						
5			Power Electronics	3	-	-	03	100						
6			Fiber optical communication - Lab	-	-	2	01	50						
7			Microcontrollers-Lab	-	-	2	01	50						

8			Power Electronics-lab	-	-	2	01	25						
9			Python Programming Lab	-	-	2	01	25						
10			Mini Project-III	-	-	2	01	25						
11			Constitution Of India	2	-	-	01							
			Total	17	2	10	22	675						
				29 Hrs/Week										

Note: 1) Tutorials & practical shall be conducted in batches with batch strength not exceeding 20 students.
2) SEE will be conducted for 100 marks and converted to 50 marks.

CSE: Continuous Semester Evaluation **SEE: Semester End Evaluation** **IPE: Internal Practical Evaluation**
EPE: External Practical Examination **IOE: Internal Oral Evaluation** **EOE: External Oral Examination**

Professional Elective I : 1) Video Engineering 2) Antenna and Wave Propagation 3) Satellite Communication

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THIRD YEAR B. TECH. (ELECTRONICS AND TELECOMMUNICATION) SEMESTER- VI

Sr. No.	Course Code	Corse Type	Name of Course	Teaching Scheme per week				Total Marks	Evaluation Scheme (Marks)					
									Theory			Practical		
				L	T	P	Credits		Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Wireless communication Networks	3	-	-	03	100						
2			Digital design using VHDL	3	-	-	03	100						
3			Industrial Management	3	-	-	03	100						
4			Professional Elective-II	3	1	-	04	100						
5			Open Elective I	3	1	-	04	100						

6			Wireless communication Networks- Lab	-	-	2	01	50						
7			Digital design using VHDL -Lab	-	-	2	01	25						
8			Mini Project-IV	-	-	2	01	25						
			Total	15	2	6	20	600						
				23 Hrs/Week										

Note: 1) Tutorials & practical shall be conducted in batches with batch strength not exceeding 20 students.
2) SEE will be conducted for 100 marks and converted to 50 marks.

CSE: Continuous Semester Evaluation **SEE: Semester End Evaluation** **IPE: Internal Practical Evaluation**
EPE: External Practical Examination **IOE: Internal Oral Evaluation** **EOE: External Oral Examination**
Professional Elective II : 1) Digital Signal Processing 2) Industrial Autoomation 3) Computer Networks
Open Elective I: 1) Aerospace Engineering 2) Agricultural Process Automation 3)Space and science

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SCHEME OF TEACHING AND EXAMINATION

FINAL YEAR B. TECH. (ELECTRONICS AND TELECOMMUNICATION) SEMESTER- VII

Sr. No.	Course Code	Corse Type	Name of Course	Teaching Scheme per week				Total Marks	Evaluation Scheme (Marks)					
									Theory			Practical		
				L	T	P	Credits		Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Embedded Systems	3	-	-	03	100						
2			Professional Elective -III	3	1	-	04	100						
3			Project Management and Economics	3	-	-	03	100						

4			Open Elective II	3	1	-	04	100						
5			Embedded Systems-Lab	-	-	2	01	100						
6			Project Phase I	-	-	4	02	50						
7			Internship (4-6Weeks)	-	-	-	04	50						
				12	2	6	21	600						
				20 Hrs/Week										

Note: 1) Tutorials & practical shall be conducted in batches with batch strength not exceeding 20 students.
2) SEE will be conducted for 100 marks and converted to 50 marks.

CSE: Continuous Semester Evaluation **SEE: Semester End Evaluation** **IPE: Internal Practical Evaluation**
EPE: External Practical Examination **IOE: Internal Oral Evaluation** **EOE: External Oral Examination**

Professional Elective III : 1) Real Time operating system 2) Image Processing 3) Microwave Engineering
Open Elective III : 1) Biomedical Application 2) RES 3) Consumer Electronics

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SCHEME OF TEACHING AND EXAMINATION

FINALYEAR B. TECH. (ELECTRONICS AND TELECOMMUNICATION) SEMESTER- VIII

CSE: Continuous Semester Evaluation **SEE: Semester End Evaluation** **IPE: Internal Practical Evaluation**
EPE: External Practical Examination **IOE: Internal Oral Evaluation** **EOE: External Oral Examination**

Sr. No.	Course Code	Corse Type	Name of Course	Teaching Scheme per week				Total Marks	Evaluation Scheme (Marks)					
									Theory			Practical		
				L	T	P	Credits		Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Advanced Communication	3	-	-	03	100						

2			Professional Elective -IV	3	1	-	04	100						
3			Professional Elective -V	3	1	-	04	100						
4			Professional Elective -VI	3	-	-	03	100						
5			Advanced Communication –Lab	-	-	2	01	50						
6			Project Phase II	-	-	4	02	200						
				12	2	6	17	650						
				20 Hrs/Week										

Note: 1) Tutorials & practical shall be conducted in batches with batch strength not exceeding 20 students.
2) SEE will be conducted for 100 marks and converted to 50 marks.

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Professional Elective IV : 1) Real Time operating system 2) Image Processing 3) Microwave Engineering
Professional Elective V : 1) Network security cryptography 2) Computer vision 3) machine learning
Professional Elective VI : 1) Speech processing 2) ADSP 3) IOT