Department of Electronics and Telecommunication Engineering

Scheme for Bachelor of Technology (Electronics and Telecommunication Engineering)
Semester I

		Group	,	Teachin	g Schei	me								
Course	Name of the Course	as per		Hour	s/Week			The	eory		Prac	tical		Credits
Code	rame of the course	AICTE norms	Th	Tut	Pr	Total	ISA	ISE1	ISE2	ESE	ICA	ESE	Total	
SH101	Engineering Mathematics-I	a	3	1		4	10	15	15	60			100	4
SH152	Applied Chemistry	a	4			4	10	15	15	60			100	4
ME151	Engineering Graphics	b	3			3	10	15	15	60			100	3
EE151	Basic Electrical Engineering	b	2			2	4	8	8	30	-		50	2
SH153	Environmental Studies	a	3			3	10	15	15	60	-		100	3
ME152	Workshop Practice-II	b			2	2					50		50	1
SH154	Applied Chemistry Lab	a			2	2					50		50	1
ME153	Engineering Graphics Lab	b			4	4					50		50	2
EE152	Basic Electrical Engineering Lab	b			2	2					50		50	1
SH155	General Proficiency I	С	1		2	3					50		50	2
	Total		16	1	12	29	44	68	68	270	250		700	23

Semester II

		Group		Teachin	g Scher	ne								
Course	Name of the Course	as per		Hour	s/Week			The	eory		Prac	tical		Credits
Code	realite of the Course	AICTE norms	Th	Tut	Pr	Total	ISA	ISE1	ISE2	ESE	ICA	ESE	Total	- 1
SH151	Engineering Mathematics-II	a	3	1		4	10	15	15	60	-		100	4
SH102	Applied Physics	a	4			4	10	15	15	60	-		100	4
CO101	Computer Fundamentals and C Programming	b	3			3	10	15	15	60			100	3
CE101	Engineering Mechanics	b	3	1		4	10	15	15	60			100	4
ET101	Basic Electronics Engineering	b	2			2	4	8	8	30	-		50	2
ME101	Workshop Practice-I	b			2	2					50		50	1
SH103	Applied Physics Lab	a			2	2					50		50	1
CO102	Computer Fundamentals and C Programming Lab	b			4	4					50		50	2
CE102	Engineering Mechanics Lab	b			2	2					50		50	1
ET102	Basic Electronics Engineering Lab	b			2	2					50		50	1
_	Total		15	2	12	29	44	68	68	270	250		700	23

Th: Theory Tut: Tutorial Pr: Practical Lab: Laboratory

Department of Electronics and Telecommunication Engineering

Scheme for Bachelor of Technology (Electronics and Telecommunication Engineering) **Semester III**

		Group		Teachin	g Schei	me								
Course	Name of the Course	as per		Hour	s/Week			The	eory		Prac	ctical		Credits
Code	rame of the course	AICTE norms	Th	Tut	Pr	Total	ISA	ISE1	ISE2	ESE	ICA	ESE	Total	
SH201	Engineering Mathematics - III	a	3	1	-	4	10	15	15	60	-		100	4
ET201	Network Analysis	b	3			3	10	15	15	60			100	3
ET202	Components, Devices and Instruments Technology	d	4			4	10	15	15	60			100	4
ET203	Electronic Devices and Circuits	d	3			3	10	15	15	60			100	3
ET204	Digital Electronics	d	3			3	10	15	15	60			100	3
SH204	General Proficiency II	С	1		2	3					25	25	50	2
ET205	Network Analysis Lab	b			2	2					50		50	1
ET206	Components, Devices and Instruments Technology Lab	d			2	2					25	¤	50	1
ET207	Electronics Devices and Circuits Lab	d			2	2					25	25	50	1
ET208	Digital Electronics Lab	d			2	2					25	25	50	1
	Total		17	1	10	28	50	75	75	300	150	100	750	23

Semester IV

		Group	,	Teachin	g Schen	ne								
Course	Name of the Course	as per		Hour	s/Week		Theory				Prac	ctical		Credits
Code	Name of the Course	AICTE norms	Th	Tut	Pr	Total	ISA	ISE1	ISE2	ESE	ICA	ESE	Total	
ET251	Signals and Systems	d	3			3	10	15	15	60			100	3
ET252	Electronic Circuits and Applications	d	3	1		4	10	15	15	60			100	4
ET253	Microprocessor and Microcontroller	d	3			3	10	15	15	60			100	3
ET254	Analog Communication	d	3			3	10	15	15	60			100	3
SH 255	Human Resources and Economics	С	3			3	10	15	15	60			100	3
ET255	Data Structures Lab	b	2		2	4					25	50	75	3
ET256	Signals and Systems Lab	d			2	2					25		25	1
ET257	Electronic Circuits and Applications Lab	d			2	2					25	25	50	1
ET258	Microprocessor and Microcontroller Lab	d			2	2					25	25	50	1
ET259	Analog Communication Lab	d			2	2					25	25	50	1
	Total			1	10	28	50	75	75	300	125	125	750	23

Th: Theory **Tut: Tutorial ISA: Internal Sessional Assessment**

ISE: In Semester Examination

Pr: Practical

ESE: End Semester Examination

Lab: Laboratory

ICA: Internal Continuous Assessment

Department of Electronics and Telecommunication Engineering

Scheme for Bachelor of Technology (Electronics and Telecommunication Engineering)
Semester V

		Group	,	Teachin	g Schen	ne			Eva	luation	Scheme	2		
Course	Name of the Course	as per		Hour	s/Week			The	eory		Prac	ctical		Credits
Code	rvaine of the course	AICTE norms	Th	Tut	Pr	Total	ISA	ISE1	ISE2	ESE	ICA	ESE	Total	Credits
ET301	Linear Integrated Circuits and Applications	d	3			3	10	15	15	60			100	3
ET302	Control System Engineering	d	3			3	10	15	15	60			100	3
ET303	Digital Signal Processing	d	3			3	10	15	15	60			100	3
ET304	Communication System Theory	d	3			3	10	15	15	60			100	3
SH301	Industrial Management and Operation Research	С	3			3	10	15	15	60			100	3
ET305	Linear Integrated Circuits and Applications Lab	d			2	2					25	25	50	1
ET306	Control System Engineering Lab	d			2	2					50		50	1
ET307	Digital Signal Processing Lab	d			2	2					25	25	50	1
ET308	Object Oriented Programming Lab	b	1		4	5					50	50	100	3
ET309	Self Study- I	d											50**	2
		Total	16		10	26	50	75	75	300	150	100	800	23

Th: Theory Tut: Tutorial Pr: Practical Lab: Laboratory

Assessment

• **Marks and hence grade of course 'self study' shall be based on one test each conducted on 20% syllabus of five courses - ET301, ET302, ET303, ET304, SH301. One faculty member should be appointed as course coordinator for the course 'self study' to compile the marks of all tests and enter in to institute's Management Information System (MIS) software.

• Twenty percent syllabus for 'self study' shall be declared by course teacher at the beginning of semester. The teacher shall conduct the test examination for the self study syllabus of that course and submit the marks to the course coordinator.

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Scheme for Bachelor of Technology (Electronics and Telecommunication Engineering)
Semester VI

		Group	ŗ	Геасhin	g Schen	ne								
Course	Name of the Course	as per		Hours	s/Week			The	eory		Prac	tical		Credits
Code	raine of the course	AICTE norms	Th	Tut	Pr	Total	ISA	ISE1	ISE2	ESE	ICA	ESE	Total	Cicuits
ET351	Electromagnetic Fields	d	3			3	10	15	15	60			100	3
ET352	Audio and Video Engineering	d	3		-	3	10	15	15	60			100	3
ET353	Electronic Measurements	d	3			3	10	15	15	60			100	3
ET354	Semiconductor Power Devices and Drives	d	3			3	10	15	15	60			100	3
ET355	Digital Communication	d	3			3	10	15	15	60			100	3
ET356	Semiconductor Power Devices and Drives Lab	d			2	2					25	25	50	1
ET357	Audio and Video Engineering and Electronic Measurements Lab	d			2	2					50		50	1
ET358	Digital Communication Lab	d			2	2					25	25	50	1
ET359	Circuit Simulation Lab	b			2	2					25	25	50	1
ET360	Miniproject	d			2	2					25	25	50	2
ET361	Self Study - II	d											50**	2
ET362	Industrial Lecture*	d	1			1								
		Total	16		10	26	50	75	75	300	150	100	800	23

Th: Theory Tut: Tutorial Pr: Practical Lab: Laboratory

Assessment

• *Evaluation of the course ET362 industrial lecture shall be carried out in VIII Semester along with the course ET459 industrial lecture

- **Marks and hence grade of course 'self study' shall be based on one test each conducted on 20% syllabus of five courses ET351, ET352, ET353, ET354, ET355. One faculty member should be appointed as course coordinator for the course 'self study' to compile the marks of all tests and enter in to institute's Management Information System (MIS) software.
- Twenty percent syllabus for 'self study' shall be declared by course teacher at the beginning of semester. The teacher shall conduct the test examination for the self study syllabus of that course and submit the marks to the course coordinator.

Department of Electronics and Telecommunication Engineering

Scheme for Bachelor of Technology (Electronics and Telecommunication Engineering)
Semester VII

		Group	1	Teachin	g Scher	ne								
Course	Name of the Course	as per		Hour	s/Week			The	eory	Ī	Prac	tical		Credits
Code		AICTE norms	Th	Tut	Pr	Total	ISA	ISE1	ISE2	ESE	ICA	ESE	Total	Cicuits
ET401	Digital System Design and Very Large Scale Integration	d	3			3	10	15	15	60			100	3
SH401	Entrepreneurship and Business Planning	С	2			2	4	8	8	30			50	2
ET402	Satellite and Mobile Communication	d	3			3	10	15	15	60			100	3
ET403	Elective I	e	3			3	10	15	15	60			100	3
ET404	Interdisciplinary Elective	e	3			3	10	15	15	60			100	3
ET405	Digital System Design and Very Large Scale Integration Lab	d			2	2					25	25	50	1
ET406	Satellite and Mobile Communication Lab	d			2	2					25	25	50	1
ET407	Lab (Elective I)	e			2	2					25	25	50	1
ET408	Project Phase I	d			2	2					50	50	100	2
ET409	Seminar	d			2	2					25	25	50	2
ET410	Self Study -III	d											50**	2
		Total	14		10	24	44	68	68	270	200	100	800	23

Th: Theory Tut: Tutorial Pr: Practical Lab: Laboratory

Interdisciplinary Elective

Industrial Automation

Elective I

Bio-medical Engineering

D

- A Digital Image Processing

 B Broadband Communication

 C Embedded Systems

 A Semiconductor Power Devices and Drives

 B Electronics Instruments and Applications

 C Photovoltaic Devices and Systems
- **Marks and hence grade of course 'self study' shall be based on one test each conducted on 20% syllabus of five courses –ET401, SH401, ET402, ET403, ET404. One faculty member should be appointed as course coordinator for the course 'self study' to compile the marks of all tests and enter in to institute's Management Information System (MIS) software.

D

• Twenty percent syllabus for 'self study' shall be declared by course teacher at the beginning of semester. The teacher shall conduct the test examination for the self study syllabus of that course and submit the marks to the course coordinator.

Department of Electronics and Telecommunication Engineering

Scheme for Bachelor of Technology (Electronics and Telecommunication Engineering)
Semester VIII

		Group		Teachi	ng Sche	me								
Course	Name of the Course	as per		Hou	rs/Week	ζ		The	eory	ı	Prac	ctical		Credits
Code	Traine of the Course	AICTE norms	Th	Tut	Pr	Total	ISA	ISE1	ISE2	ESE	ICA	ESE	Total	0100105
ET451	Computer Network and Communication	d	3			3	10	15	15	60			100	3
ET452	Microwave Engineering and Fiber Optics	d	3			3	10	15	15	60			100	3
ET453	(Elective II)	e	3			3	10	15	15	60			100	3
ET454	(Elective III)	e	3			3	10	15	15	60			100	3
ET455	Computer Network and Communication Lab	d			2	2					25	25	50	1
ET456	Microwave Engineering and Fiber Optics Lab	d			2	2					25	25	50	1
ET457	Lab (Elective III)	e			2	2					25	25	50	1
ET458	Project Phase II	d			4	4					50	100	150	4
ET459	Industrial Lecture	d	1			1					25		25	1
ET460	Industrial Visit/Industrial Training/Special Study/Entrepreneurship Development Programm Training	d									25		25	1
ET461	Self Study IV	d											50**	2
		Total	13		10	23	40	60	60	240	175	175	800	23

Th: Theory Tut: Tutorial Pr: Practical Lab: Laboratory

Elective II

- A Neural Network and Fuzzy Logic
- B Multimedia Communication
- C Telecommunication Switching Network and Management
- D Nanotechnology

- A Advance Digital Signal Processing
- B Radiation and Antenna Design

Elective III

- C Complementary Metal Oxide Semiconductor and Very Large Scale Integration Design
- D Industrial Automation and Control
- **Marks and hence grade of course 'self study' shall be based on one test each conducted on 20% syllabus of four courses ET451, ET452, ET453, ET454. One faculty member should be appointed as course coordinator for the course 'self study' to compile the marks of all tests and enter in to institute's Management Information System (MIS) software.
- Twenty percent syllabus for 'self study' shall be declared by course teacher at the beginning of semester. The teacher shall conduct the test examination for the self study syllabus of that course and submit the marks to the course coordinator.
- In the course 'industrial lecture', at least 12 lectures from industrial expert should be arranged and continuously assessed (six lectures in VI and VIII semester each)

Sr.	Category	Group
No.		Code
1	Basic Sciences	a
2	Basic Engg./ Skills	b
3	Humanities, Social Sciences and Management	c
4	Programme Core	d
5	Electives	e