SOLAPUR UNIVERSITY, SOLAPUR

FACULTY OF ENGINEERING & TECHNOLOGY

ELECTRONICS & TELECOMMUNICATION ENGINEERING

Syllabus Structure for

M.E. (Electronics & Telecommunication Engineering)

4 Semester PG Programme

To be effective from 2015-16

Semester-I

Sr. No.	Subject	Teaching Scheme		Examination Scheme				Credits Assigned	
				Theory		Pract/TW			
		Theory	Pract	ESE	ISE	ESE	ISE	Theory	Pract
1	Research Methodology	3	1(T)	70	30	-	-	3	1(T)
2	Antenna Theory and Design	3	2	70	30	-	25	3	1
3	Probability & Stochastic Processes	3	2	70	30	-	25	3	1
4	Advanced Network Systems	3	2	70	30	-	25	3	1
5	Elective - I	3	1(T)	70	30	-	25	3	1(T)
6	Seminar- I	-	2	-	-	-	50	-	2
	Total	15	10	350	150	-	150	15	7
		Total=25		Total=650				Total=22	

Elective- I : 1. Optical Networks

2. Speech & Video Processing

3. Advanced VLSI Design

Note –

Students have to select any one course from Elective -I

Semester-II

Sr. No.	Subject	Teaching Scheme		Examination Scheme				Credits Assigned	
				Theory		Pract/TW			
		Theory	Pract	ESE	ISE	ESE	ISE	Theory	Pract
1	RF and Microwave Circuit Design	3	2	70	30	-	25	3	1
2	Advanced Signal Processing	3	2	70	30	-	25	3	1
3	Wireless Communication	3	1(T)	70	30	-	-	3	1(T)
4	Cryptography & Network Security	3	2	70	30	-	25	3	1
5	Elective - II	3	1(T)	70	30	-	25	3	1(T)
6	Seminar- II	-	2	-	-	-	50	-	2
	Total	15	10	350	150	-	150	15	7
		Total=25		Total=650				Total=22	

Elective- II : 1. Wireless Sensor Network & Optimization.

2. Wavelet Transform & Applications.

3. Advanced Embedded Systems.

Note –

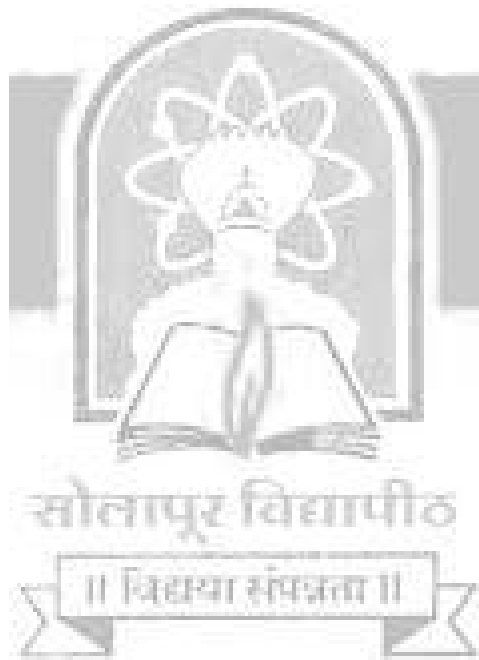 ➢ *Students have to select any one course from Elective –II*

Semester-III

Sr. No.	Subject	Teaching Scheme		Examination Scheme				Credits Assigned	
				Theory		Pract/TW			
		Theory	Pract	ESE	ISE	ESE	ISE	Theory	Pract
1	**Self Learning**	$	-	70	30	-	-	3	-
2	**Lab Practice**	-	2	-	-	-	25	-	1
3	**Dissertation Phase-I:** Synopsis Submission Seminar*(Format to designed)(ISE)	-	4@	-	-	-	75	-	3
	Dissertation Phase-II: Term work *(ISE)	-	-	-	-	-	100	-	3
	Dissertation Phase-II: Progress Seminar* Presentation(ESE)	-	-	-	-	200	-	-	6
	Total	-	6	70	30	200	200	3	13
		Total=6		**Total=500**				**Total=16**	

Self Learning Corses :

1. Internet of Things
2. Software Defined and Cognitive Radio
3. Modeling & Simulation of Communication System

➢ $-Being a self learning subject ,student shall prepare for examination as per specified syllabus.

➢ *-For all activities related to desertation phase I (Synopsis submission seminar and progress seminar) student must interact regularly every week with the adviser.\

➢ Synopsis submission seminar shall cover detailed synopsis of the proposed work.Student shall submit synopsis of desertation work only after delivering this seminar.

➢ Progress seminar shall be delivered capturing details of the work done by student for desertation.

- Student shall deliver all seminar using modern presentation tools. A hard copy of report shall be submitted to the department before delivering the seminar .A PDF copy of report must be submitted to the adviser along with other details if any.
- Lab practice shall include any of the below activities related to desertation work and recommended by advisor.Student shall submit report after completion of the activity to the advisior –

  Software assignments ,learning new software ,hardware realization ,literature survey,filed work,Industrial traing etc.
- @ Indicates contact hours of student for interaction with advisior.
- Details of mode of assignment of seminar and desertation shall be as specified in 7(III) of PG Engineering ordinance of Solapur University ,Solapur

Semester-IV

Sr. No.	Subject	Teaching Scheme		Examination Scheme				Credits Assigned	
				Theory		Pract/TW			
		Theory	Practical	ESE	ISE	ESE	ISE	Theory	Pract
1	**Dissertation Phase-III:**Progress Seminar #(ISE) Dissertation Phase IV: Term work #(ISE)	-	4@	-	-	-	100	-	4
2	**Dissertation Phase-IV:**Term Work#(ISE)	-	2@	-	-	-	200	-	6
3	**Final submission of Dissertation** and Viva-voce(ESE)	-	-	-	-	200	-	-	6
	Total	-		-	-	200	300	-	16
		Total = 6		**Total=500**				**Total=16**	

- **#-**For all activities related to dissertation phase-II student must interact regularly every week with the advisor .
- Progress seminar shall be delivered capturing details of the work done by student for desertation.
- Student shall deliver all seminar using modern presentation tools. A hard copy of report shall be submitted to the department before delivering the seminar .A PDF copy of report must be submitted to the adviser along with other details if any.
- Student must submit hard copy of project report to the department .
- @ Indicates contact hours of student for interaction with advisior.
- Details of mode of assignment of seminar and desertation shall be as specified in 7(III) of PG Engineering ordinance of Solapur University ,Solapur.