

Syllabus for Electronics and Communication Engineering as per C-16 Curriculum I YEAR

Subject Code	Name of the Subject	Instruction period / week		Total Period / year	Scheme of Examination			
		Theory	Practical /Tutorial		Duration (hours)	Sessional Marks	End Exam Marks	Total Marks
THEORY:								
EC-101	English	3	-	90	3	20	80	100
EC-102	Engineering Mathematics - I	5	-	150	3	20	80	100
EC-103	Engineering Physics	4	-	120	3	20	80	100
EC-104	Engineering Chemistry & Environmental Studies	4	-	120	3	20	80	100
EC-105	Electronic Devices & Power Supplies	5	-	150	3	20	80	100
EC-106	Elements of Electrical Engineering	4	-	120	3	20	80	100
PRACTICAL:								
EC-107	Engineering Drawing	-	6	180	3	40	60	100
EC-108	Basic Electronics Laboratory & wiring fundamentals	-	5	150	3	40	60	100
EC-109	Physics Laboratory	-	3	90	3	20	30	50
EC-110	Chemistry Laboratory	-			3	20	30	50
EC-111	Computer Fundamentals Laboratory	-	3	90	3	40	60	100
TOTAL		24	18	1260	-	280	720	1000

III SEMESTER

Subject Code	Name of the Subject	Instruction period / week		Total Period / Sem	Scheme of Examination			
		Theory	Practical /Tutorial		Duration (hours)	Sessional Marks	End Exam Marks	Total Marks
THEORY:								
EC- 301	Engineering Mathematics - II	5	-	75	3	20	80	100
EC -302	Electronic Circuits	6	-	90	3	20	80	100
EC -303	Digital Electronics	6	-	90	3	20	80	100
EC-304	Analog and Digital Communication Systems	6	-	90	3	20	80	100
EC-305	Network Analysis	6	-	90	3	20	80	100
PRACTICAL:								
EC-306	Electronic Circuits lab	-	3	45	3	40	60	100
EC-307	Digital Electronics lab	-	4	60	3	40	60	100
EC-308	Analog and Digital Communication systems Lab	-	3	45	3	40	60	100
EC-309	Communication Skills Practice	-	3	45	3	40	60	100
TOTAL		29	13	630	-	260	640	900

IV SEMESTER

Subject Code	Name of the Subject	Instruction period / week		Total Period / Sem	Scheme of Examination			
		Theory	Practical /Tutorial		Duration (hours)	Sessional Marks	End Exam Marks	Total Marks
THEORY:								
EC - 401	Linear ICs and Applications	6	-	90	3	20	80	100
EC - 402	Programming in C and MATLAB	6	-	90	3	20	80	100
EC - 403	Microprocessors	6	-	90	3	20	80	100
EC - 404	Electronic Measurements & consumer gadgets	6	-	90	3	20	80	100
EC-405	Microwave & Satellite Communication systems	6	-	90	3	20	80	100
PRACTICAL:								
EC - 406	Linear ICs Lab	-	3	45	3	40	60	100
EC - 407	Microprocessors lab	-	3	45	3	40	60	100
EC - 408	C & MATLAB practice laboratory	-	3	45	3	40	60	100
EC - 409	Consumer Electronics & Measurements Lab	-	3	45	3	40	60	100
TOTAL		30	12	630	-	260	640	900

V SEMESTER

Subject Code	Name of the Subject	Instruction period / week		Total Period / Sem	Scheme of Examination			
		Theory	Practical/ Tutorial		Duration (hours)	Sessional Marks	End Exam Marks	Total Marks
THEORY:								
EC -501	Industrial Management & Smart Technologies	5		75	3	20	80	100
EC-502	Microcontrollers	6	-	90	3	20	80	100
EC-503	Computer Hardware & Networking	6	-	90	3	20	80	100
EC-504	Optical & Mobile Communications	6	-	90	3	20	80	100
EC-505	Industrial Electronics	6	-	90	3	20	80	100
PRACTICAL:								
EC-506	Advanced Communications & Networking Lab	-	4	60	3	40	60	100
EC-507	Microcontrollers lab	-	3	45	3	40	60	100
EC-508	Life Skills	-	3	45	3	40	60	100
EC-509	Industrial Electronics Lab	-	3	45	3	40	60	100
TOTAL		29	13	630	-	260	640	900

VI SEMESTER

S.No	Subject	Duration	Items	Max Marks	Remarks
1	EC-601 Practical Training in the Industry	6 Months	1.First Assessment (at the end of 3rd month)	100	
			2. Second Assessment (at the end of 6th month)	100	
			3.Training report i) Log Book	30	
			ii) Report	30	
			4. Seminar	40	
Total :				300	

The industrial training shall carry 300 marks and pass marks are 50%.A candidate failing to secure the minimum marks should complete it at his own expenses.

During Industrial training the candidate shall put in a minimum of 90%attendance.

OTHER EDUCATIONAL ASSIGNMENTS ALONG WITH CURRICULUM (COMMON FOR ALL BRANCHES)

S.NO	ASSIGNMENT	PER SEM
1	Skill Development program by APSSDC	15 days
2	Industrial Visits	2
3	Workshops	1

CO- CURRICULAR ACTIVITIES (COMMON FOR ALL BRANCHES)

S.NO	ASSIGNMENT	PER YEAR
1	TECH FEST	2days
2	SPORTS & GAMES	1 WEEK