SANKAR POLYTECHNIC COLLEGE

SANKARNAGAR, TIRUNELVELI - 627 357

(AN GOVT.AIDED AUTONOMOUS INSTITUTION, APPROVED BY AICTE & AFFLIATED TO DoTE)



P-SCHEME - CURRICULAM

Department of Electronics and Communication Engineering

[III Semester – VI Semester]

SANKAR POLYTECHNIC COLLEGE [AUTONOMOUS], SANKAR NAGAR – 627357

P SCHEME REGULATION

ELECTRONICS AND COMMUNICATION ENGINEERING

SEMESTER - III

S.no	Course Category	Course Type	Code	Course Title	L-T-P	Period	Credit	End Exam
1	Program Core	Theory	P431	Electronic Devices and Circuits	4-0-0	60	4	Theory
2	Program Core	Practicum	P432	Digital Electronics	1-0-4	75	3	Practical
3	Program Core	Practical	P433	Electronic Devices and Circuits Practical	0-0-4	60	2	Practical
4	Program Core	Practicum	P434	Computer Hardware & Servicing	1-0-4	75	3	Practical
5	Engineering Science	Practicum	P435	Linear Integrated Circuits	1-0-4	75	3	Practical
6	Program Core	Practicum	P436	Electrical Circuits and Machines	1-0-2	45	2	Practical
7	Open Elective	Advanced Skill Certification	P437	Advanced Skills Certification - 3	0-0-4	60	2	NA
8	Humanities & Social Science	Integrated Learning Experience	P4301	Growth Lab	0-0-3	45	0	-
9	Audit Course	Integrated Learning Experience	P4302	Induction Program II	-	16	0	-
10	Audit Course	Integrated Learning Experience	P4303	I&E/ Club Activity/ Community Initiatives	-	16	0	-
11	Audit Course	Integrated Learning Experience	P4304	Emerging Technology Seminars	-	8	0	-
12	Audit Course	Integrated Learning Experience	P4305	Shop floor Immersion	-	8	0	-
13	Audit Course	Integrated Learning Experience	P4306	Health & Wellness	0-0-2	30	1	NA
14	Audit Course	Integrated Learning Experience	P4307	Student-Led Initiative	-	22	0	-
Library					-	15	-	-
Test and Revision					-	30	-	-
TOTAL						**640**	**20**	

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P SCHEME REGULATION

SEMESTER - IV

S.no	Course Category	Course Type	Code	Course Title	L-T-P	Period	Credit	End Exam
1	Program Core	Theory	P441	Microcontroller	4-0-0	60	4	Theory
2	Program Core	Practicum	P442	Data Communication and Networking	1-0-4	75	3	Practical
3	Program Core	Practicum	P443	Basics of Communication Engineering	1-0-4	75	3	Practical
4	Program Core	Practicum	P444	Measuring Instruments and sensors	1-0-4	75	3	Practical
5	Engineering Science	Practicum	P445	Programming in C	1-0-4	75	3	Practical
6	Program Core	Practical/Lab	P446	Microcontroller Practical	0-0-4	60	2	Practical
7	Open Elective	Advanced Skill Certification	P447	Advanced Skills Certification-4	0-0-4	60	2	NA
8	Audit Course	Integrated Learning Experience	P4401	I&E/Club Activity/Community Initiatives	-	30	0	-
9	Audit Course	Integrated Learning Experience	P4402	Special Interest Group (Placement Training)	-	30	0	-
10	Audit Course	Integrated Learning Experience	P4403	Emerging Technology Seminars	-	8	0	-
11	Audit Course	Integrated Learning Experience	P4404	Shopfloor Immersion	-	8	0	-
12	Audit Course	Integrated Learning Experience	P4405	Health & Wellness	-	30	0	-
13	Audit Course	Integrated Learning Experience	P4406	Student-Led Initiative	-	24	0	-
Test and Revision					-	30	-	-
TOTAL						**640**	**20**	

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P SCHEME REGULATION

SEMESTER - V

S.no	Course Category	Course Type	Code	Course Title	L-T-P	Period	Credit	End Exam
1	Program Core	Practicum	P451	Advanced Communication Systems	1-0-4	75	3	Practical
2	Program Core	Practicum	P452	Mobile Communication	1-0-4	75	3	Practical
3	Program Elective	Theory	P453x	Elective -1	3-0-0	45	3	Theory
4	Program Core	Practicum	P454	Embedded Systems	2-0-4	90	4	Practical
5	Program Elective	Practicum	P455x	Elective -2	1-0-4	75	3	Practical
6	Humanities & Social Science	Practicum	P456	Innovation & Startup	1-0-2	45	2	Project
7	Project/Internship	Internship	P457	Industrial Training (Summer Vacation 90 Hours)	-	-	2	Project
8	Open Elective	Advanced Skill Certification	P458	Advanced Skills Certification-5	0-0-4	60	2	NA
9	Audit Course	Integrated Learning Experience	P4501	Induction Program -III	-	40	0	-
10	Audit Course	Integrated Learning Experience	P4502	Special Interest Group (Placement Training)	-	40	0	-
11	Audit Course	Integrated Learning Experience	P4503	Health & Wellness	-	30	0	-
12	Audit Course	Integrated Learning Experience	P4504	Student- led initiative	-	30	0	-
Test and Revision					-	30	-	-
					-	**635**	**22**	-

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P SCHEME REGULATION

ELECTIVE - I

S.no	Course Category	Course Type	Code	Course Title	L-T-P	Period	Credit	End Exam
1	Program Elective	Theory	P4531	E-Vehicle Technology	3-0-0	45	3	Theory
2	Program Elective	Theory	P4532	Medical Instrumentation	3-0-0	45	3	Theory
3	Program Elective	Theory	P4533	Digital Communication	3-0-0	45	3	Theory
4	Program Elective	Theory	P4534	Digital Manufacturing Technology	3-0-0	45	3	Theory
5	Program Elective	Theory	P4535	Signal & Image Processing	3-0-0	45	3	Theory
6	Program Elective	Theory	P4536	Electronic System Design	3-0-0	45	3	Theory
7	Program Elective	Theory	P4537	Inter discipline course #	3-0-0	45	3	Theory

 # Courses from other programmes with the same credit can be considered after proper approval from the Chairman, Board of Examinations.

ELECTIVE - 2

S.no	Course Category	Course Type	Code	Course Title	L-T-P	Period	Credit	End Exam
1	Program Elective	Practicum	P4551	Industrial Automation	1-0-4	75	3	Practical
2	Program Elective	Practicum	P4552	Power Electronic Devices	1-0-4	75	3	Practical
3	Program Elective	Practicum	P4554	PCB Design	1-0-4	75	3	Practical
4	Program Elective	Practicum	P4555	Industrial IOT	1-0-4	75	3	Practical
5	Program Elective	Practicum	P4556	Multimedia Systems	1-0-4	75	3	Practical

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SEMESTER - VI

S.no	Course Category	Course Type	Code	Course Title	L-T-P	Period	Credit	End Exam
1	Open Elective	Practicum	P461x	Elective -3 (Pathway)	3-0-0	45	3	Theory
2	Open Elective	Practicum	P462x	Elective -4 (Specialisation)	1-0-4	75	3	Practical
3	Project / Internship	Project / Internship	P463x	Internship/Fellowship/ In-house Project/Industrial Training (SW)	-	540	12	Project
TOTAL					-	**660**	**18**	
1	Project / Internship	Project / Internship	P4631	Internship	-	540	12	Project
2	Project / Internship	Project / Internship	P4632	Fellowship	-	540	12	Project
3	Project / Internship	Project / Internship	P4633	In-house Project	-	540	12	Project
4	Project / Internship	Project / Internship	P4634	Industrial Training (SW)	-	540	12	Project

ELECTIVE - 3 (PATHWAY)

S.no	Course Category	Course Type	Code	Course Title	L-T-P	Period	Credit	End Exam
1	Elective/ Higher Education	Practicum	P4611	Advanced Engineering Mathematics	3-0-0	45	3	Theory
2	Elective/ Entrepreneurship	Practicum	P4612	Entrepreneurship	3-0-0	45	3	Theory
3	Elective/ Technocrats	Practicum	P4613	Project Management	3-0-0	45	3	Theory
4	Elective/ Technocrats	Practicum	P4614	Finance Fundamentals	3-0-0	45	3	Theory
5	Elective/ Technologists	Practicum	P4615	Consumer Electronics	3-0-0	45	3	Theory
6	Elective/ Technologists	Practicum	P4616	ASIC Design	3-0-0	45	3	Theory
7	Elective/ Technologists	Practicum	P4617	Microprocessor	3-0-0	45	3	Theory
8	Elective/ Open Elective	Practicum	P4618	Online Elective Course $	3-0-0	45	3	Theory

$ Online courses with same credit available in AICTE/NPTEL and reputes Institutions with proper evaluation system and certification can be considered after proper approval from Chairman , Board of Examinations.

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ELECTIVE - 4 (SPECIALIZATION)

S.no	Course Category	Course Type	Code	Course Title	L-T-P	Period	Credit	End Exam
1	Elective	Practicum	P4621	Robotics	1-0-4	75	3	Practical
2	Elective	Practicum	P4622	VLSI Using Verilog	1-0-4	75	3	Practical
3	Elective	Practicum	P4623	Virtual Instrumentation (Lab View)	1-0-4	75	3	Practical
4	Elective	Practicum	P4624	Artificial Intelligence	1-0-4	75	3	Practical
5	Elective	Practicum	P4625	Wireless Communication	1-0-4	75	3	Practical
6	Elective	Practicum	P4626	VR and AR	1-0-4	75	3	Practical

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