



PSN COLLEGE OF ENGINEERING & TECHNOLOGY

(AUTONOMUS)

Melathediyoor-627152



REGULATIONS-2014

PG (FULL TIME)
I TO IV SEMESTERS
CURRICULUM FOR
M.E (EMBEDDED SYSTEM TECHNOLOGIES)



PSN College of Engineering and Technology
(An Autonomous Institution)
Melathediyoor-627152.



(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)
(Accredited by NBA and NAAC, and an ISO 9001:2008 Certified Institution)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

M.E (EMBEDDED SYSTEM TECHNOLOGIES)
REGULATION-2014

SEMESTER I

S.NO	SUB CODE	SUBJECT NAME	Credit
1	120001	Applied Mathematics for Electrical and Electronics Engineers	4
2	125001	Embedded System Design	3
3	125002	Real Time Systems	3
4	125003	Digital System Design and Testing	3
5	125004	Programming with VHDL	4
6	125005	Advanced Microprocessors and Microcontrollers	3
7	125101	Embedded System Lab – I	2
TOTAL			22

SEMESTER II

S.NO	SUB CODE	SUBJECT NAME	Credit
1	125005	Analog VLSI Circuit Design	4
2	125006	Application of MEMS Technology	3
3	123005	Wireless Communications and Networks	3
4	125007	Embedded Networking	3
5	125008	Embedded Control Systems	3
6		Elective 1	3
7	125102	Embedded System Lab- II	2
TOTAL			21

SEMESTER III

S.NO	SUB CODE	SUBJECT NAME	Credit
1		Elective II	3
2		Elective III	3
3		Elective IV	3
4	125301	Project Work (Phase – I)	8
TOTAL			17

SEMESTER IV

S.NO	SUB CODE	SUBJECT NAME	Credit
1	125302	Project Work (Phase – II)	12
TOTAL			12

LIST OF ELECTIVES

ELECTIVE I

S.NO	SUBJECT CODE	SUBJECT NAME	L	T	P	C
1	125201	Embedded Processors and Peripherals	3	0	0	3
2	125202	Distributed Embedded Systems	3	0	0	3
3	125203	Parallel Processing and Architecture	3	0	0	3
4	125204	VLSI Architecture and Design Methodologies	3	0	0	3
5	125205	RISC Processor Architecture & Programming	3	0	0	3

ELECTIVE II

S.NO	SUBJECT CODE	SUBJECT NAME	L	T	P	C
1	120214	Advanced Digital Image Processing	3	0	0	3
2	120011	ASIC and FPGA Design	3	0	0	3
3	125206	Solar & Energy Storage Systems	3	0	0	3
4	120002	Statistical Signal Processing	3	0	0	3
5	120210	Robotics	3	0	0	3

ELECTIVE III

S.NO	SUBJECT CODE	SUBJECT NAME	L	T	P	C
1	120009	Soft Computing Techniques	3	0	0	3
2	123206	High Speed Switching Architecture	3	0	0	3
3	125207	Real Time Operating Systems	3	0	0	3
4	123212	MEMS and NEMS	3	0	0	3
5	120215	Research Methodologies	3	0	0	3

ELECTIVE IV

S.NO	SUBJECT CODE	SUBJECT NAME	L	T	P	C
1	125208	Software Technology for Embedded Systems	3	0	0	3
2	125209	Embedded Communication and Software Design	3	0	0	3
3	125210	Embedded and Wireless Sensor Networks	3	0	0	3
4	125211	Ad-hoc Networks	3	0	0	3
5	125212	Cryptography and Network Security	3	0	0	3