Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
(Autonomous Institute Affiliated to University of Mumbai)

Scheme of Curriculum for Computer Engineering M.Tech. Program

Scheme for M. Tech. Computer Engineering (SEM I to SEM IV)						
SEM I						
Course Code	Course Name	Group	Teaching Scheme (Hrs/week)			Credits
			L	T	P	Total
CE911	Advanced Algorithm and Complexity	PC	4	-	-	4
CE912	Big Data Analytics and Management	PC	4	-	-	4
CE913	Information and System Security	PC	4	-	-	4
CEL911	PG Laboratory –I	PC	-	-	2	1
CEL912	PG Laboratory –II	PC	-	-	2	1
CES911	Seminar -I	PC	-	-	2	1
CEE91X	**Professional Elective-I**	PE	3	-	-	3
ILE91X	**Institute Elective-I**	OE	3	-	-	3
	Total		18	-	6	21
SEM II						
Course Code	Course Name	Group	Teaching Scheme (Hrs/week)			Credits
			L	T	P	Total
CE921	Network Analysis and Design	PC	4	-	-	4
CE922	High Performance Computing	PC	4	-	-	4
CE923	User Experience Design	PC	3	-	-	3
CEL921	PG Laboratory –III	PC	-	-	2	1
CEL922	PG Laboratory –IV	PC	-	-	2	1
CEL923	PG Laboratory –V	PC	-	-	2	1
CES921	Seminar -II	PC	-	-	2	1
CEE92X	**Professional Elective-II**	PE	3	-	-	3
ILE92X	**Institute Elective-II**	OE	3	-	-	3
	Total		17	-	8	21
SEM III						
Course Code	Course Name	Group	Teaching Scheme (Hrs/week)			Credits
			L	T	P	Total
CES931	Seminar -III	PC	-	-	6=(2X3)	3
CEP931	Dissertation-I	PR	-	-	24	12
	Total		-	-	30	15
SEM IV						
Course Code	Course Name	Group	Teaching Scheme (Hrs/week)			Credits
			L	T	P	Total
CEP941	Dissertation-II	PR	-	-	30	15
	Total		-	-	30	15

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Code	Professional Elective-I Subjects
CEE911	Modern Operating System
CEE912	Image Analysis and Interpretation
CEE913	Natural Language Processing
CEE914	Advanced Soft Computing

Code	Professional Elective-II Subjects
CEE921	Internet of Things
CEE922	ICT for Social Cause
CEE923	Machine Vision
CEE924	Machine Learning

Code	Institute Elective-I Subjects
ILE911	Project Management
ILE912	Management Information System
ILE913	Operation Research
ILE914	Cyber Security and Laws
ILE915	Entrepreneurship Development and Management

Code	Institute Elective-II Subjects Massive Open Online Course (MOOC)
ILE921	Department will suggest MOOC courses equivalent to 3 credits.

Typical credit and load structure for PG (Computer Engineering) Programme:

S.N.	Course Domain	Credits/Semester				Total Credits
		I	II	III	IV	
4	PC	14	14	-	-	28
5	PE	03	03	-	-	06
6	OE	03	03	-	-	06
7	PR	01	01	15	15	32
Total Credits		**21**	**21**	**15**	**15**	72

Semester	Units/Week			Total Units/Week	Total Credits
	L	T	P		
I	18	-	06	24	21
II	17	-	08	25	21
III	-	-	30	30	15
IV	-	-	30	30	15