## Pandit Deendayal Petroleum University

SEM1	Credit L-T	P SEM2	Credit	L-T-P SEM3	Credit	L-T-P	SEM4	Credit	L-T-P
Maths I	4	Maths II	4	Data & File Structure	4	4-0-0	Computer Networks	4	4-0-0
Chemistry	4	Physics	4	Database Management System	4	3-1-0	Computer Organization & Programming	4	3-1-0
Basic Electronics	3	Elements of electrical Engg.	3	Discrete Mathematics	4	3-1-0	Design & Analysis of Algorithms	4	4-0-0
Elements of Mechanical Engg.	3	Elements of Civil Engg.	3	Maths III	4	3-1-0	Numerical & Statistical Methods	4	3-1-0
Communication skills	2	Workshop	1	Digital Logic Design	4	3-1-0	Object Oriented Concepts & Programming	3	3-0-0
Social Science & Humanities	1	Engineering Graphics	2						
Computing Lab 1 (C Prog.)	1	Environmental Studies	1	Database Management System LAB	1	0-0-2	Computer Networks LAB	1	0-0-2
				Digital Logic Design LAB	1	0-0-2	Design & Analysis of Algorithms LAB	1	0-0-2
NSS/Sports/NCC	1	NSS/Sports/NCC	1	Data & File Structure LAB	1	0-0-2	Object Oriented Concepts & Programming LAB	1	0-0-2
				CSSI	1	<b>-</b>			7
SEM 1 Total Credit	19	SEM 2 Total Credit	19	SEM 3 Total Credit	24		SEM 4 Total Credit	22	1
					Hrs. 26		Н	rs. 25	-

## Pandit Deendayal Petroleum University

Outline for Computer Engineering w.e.f. 2018											
SEM5	Credit	L-T-P	SEM6	Credit	L-T-P	SEM7	Credit	L-T-P	SEM8	Credit	L-T-P
Operating System	4	4-0-0	Artificial Intelligence	4	4-0-0	Optimization Techniques	3	3-0-0	Comprehensive Project II*	19	0-0-38
Theory of Computation	4		Distributed System	3	3-0-0	Machine Learning	4	4-0-0	Seminar	3	0-0-6
Web Technology	3	3-0-0	System Software & Compiler Design	4	4-0-0	Project Mngt.	3	3-0-0	Elective V*		3-0-0
Software Engineering	3	3-0-0	Wireless Technology & Mobile Computing	4	4-0-0	Mini Project	4	0-0-8	Elective VI*		3-0-0
Information Security	3	3-0-0	Elective I	3	3-0-0	Elective III	3	3-0-0			
Principles of Economics	3	3-0-0	Elective II	3	3-0-0	Elective IV	3	3-0-0			
Operating System LAB	1	0-0-2	Artificial Intelligence LAB	1	0-0-2	Machine Learning LAB	1	0-0-2			
Web Technology LAB	1	0-0-2	System Software LAB	1	0-0-2						
Information Security LAB	1	0-0-2	Distributed System LAB	1	0-0-2				•		

24 Hrs. 27

Industrial Orientation		1
SEM 5 Total Credit		24
	Hrs.	26

SEM 6 Total Credit

Industrial Training SEM 7 Total Credit

23 Hrs. 26 SEM 7 Total Credit 22 Hrs. 22\*

Elective I & II	Credit	L-T-P	Category
Advanced Computer Architecture	3	3-0-0	System
Embedded System	3	3-0-0	System
Computer Graphics	3	3-0-0	Application
Natural Language Processing	3	3-0-0	Data Science
Data Warehousing and Data Mining	3	3-0-0	Data Science
Principles of Programming language	3	3-0-0	Theory & Algorithm
Data Communication & Coding	3	3-0-0	Communication System
Wireless Sensor Networks	3	3-0-0	Communication System
Cryptography & Network Security	3	3-0-0	Security

Elective III & IV	Credit	L-T-P	Category
Cloud Computing	3	3-0-0	System
Advanced Operating System	3	3-0-0	System
Image Processing	3	3-0-0	Application
Data Compression	3	3-0-0	Application
Biometrics	3	3-0-0	Application
Semantic Web & Social Network	3	3-0-0	Data Science
Big Data Analytics	3	3-0-0	Data Science
Software Testing Methodologies	3	3-0-0	Theory & Algorithms
Internet of Things	3	3-0-0	Communication System
Vehicular Networks	3	3-0-0	Communication System
Cyber Security	3	3-0-0	Security

Elective V & VI	Credit	L-T-P	Category
Smart Energy Management System	3	3-0-0	Application
Green Computing	3	3-0-0	Application
Human Computer Interaction	3	3-0-0	Application
Multimedia Systems	3	3-0-0	Application
Pattern Recognition	3	3-0-0	Data Science
Information Retrieval System	3	3-0-0	Data Science
Optimization Techniques	3	3-0-0	Theory & Algorithm
Security in IOT	3	3-0-0	Security
Block chain Technology	3	3-0-0	Security

TOTAL CR	EDITS
	177
Plus Open Elective 3	credit
	180

	Options for SEM 8 Project work	Credit
*1	Comprehensive Project with Industry	19
*2	Major Project (Industry) with two subjects	13+3+3
*3	Major Project (University) with two subjects	13+3+3

Open Elective	Credi	it L-T-P
Advanced Java	3	3-0-0
Programming with Python	3	3-0-0