

PSN COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous)

Department of Computer Science and Engineering

MINOR DEGREE SUBJECT LIST

Vertical 1 - Full Stack Development

Sl. No	Course Code	Course Name		Classification	L	T	P	C
1.	CS606108	Principles of Programming Languages (1)	PE	Theory	3	0	0	3
2.	CS606101	Design And Analysis of Algorithms (NPTEL) (2)	PE	Theory	3	0	0	3
3.	CS606102	App Development	PE	Theory with Project	3	0	0	3
4.	CS606103	PHP Programming	PE	Theory with Project	3	0	0	3
5.	CS606104	UI and UX Design	PE	Theory	3	0	0	3
6.	CS606105	Software Testing (NPTEL)	PE	Theory	3	0	0	3
7.	CS606106	Web Application Security	PE	Theory	3	0	0	3
8.	CS606107	Dev-ops	PE	Theory	3	0	0	3
9.	CS606109	Social Networks (NPTEL)	PE	Theory	3	0	0	3
10.	CS606110	Multimedia Technology	PE	Theory	3	0	0	3

Vertical 2 - Cloud and Data Science

Sl. No	Course Code	Course Name		Classification	L	T	P	C
1.	CS606201	Cloud Computing (NPTEL) (1)	PE	Theory	3	0	0	3
2.	CS606210	Google Cloud Computing Foundations (NPTEL) (2)	PE	Theory	3	0	0	3
3.	CS606202	Virtualization	PE	Theory	3	0	0	3
4.	CS606203	Cloud Computing And Distributed Systems (NPTEL)	PE	Theory	3	0	0	3
5.	CS606204	Data Warehousing	PE	Theory with Project	3	0	0	3
6.	CS606205	Storage Technologies	PE	Theory	3	0	0	3
7.	CS606206	Software Defined Networks	PE	Theory	3	0	0	3
8.	CS606207	Grid Computing	PE	Theory	3	0	0	3
9.	CS606208	Security and Privacy in Cloud	PE	Theory	3	0	0	3
10.	CS606209	IoT and Cloud	PE	Theory with Project	3	0	0	3

Vertical 3 - Cyber Security

Sl. No	Course Code	Course Name		Classification	L	T	P	C
1.	CS606308	Network Management (1)	PE	Theory	3	0	0	3

2.	CS606303	Systems And Usable Security (NPTEL) (2)	PE	Theory	3	0	0	3
3.	CS606307	Cryptography And Network Security (NPTEL) (3)	PE	Theory with Project	3	0	0	3
4.	CS606301	Ethical Hacking (NPTEL)	PE	Theory with Project	3	0	0	3
5.	CS606302	Digital and Mobile Forensics	PE	Theory	3	0	0	3
6.	CS606304	Modern Cryptography	PE	Theory	3	0	0	3
7.	CS606305	Engineering Secure software systems	PE	Theory	3	0	0	3
8.	CS606306	Crypto currency and Block chain Technologies	PE	Theory	3	0	0	3
9.	CS606309	Cyber Crime And Laws	PE	Theory	3	0	0	3
10.	CS606310	Design of Network Router	PE	Theory	3	0	0	3

Vertical 4 - Internet Of Things

Sl. No	Course Code	Course Name		Classification	L	T	P	C
1.	CS606401	Introduction to Internet Of Things (NPTEL) (1)	PE	Theory	3	0	0	3
2.	CS606402	IoT Architecture and Framework (2)	PE	Theory	3	0	0	3
3.	CS606403	Communication Protocols For IoT	PE	Theory	3	0	0	3
4.	CS606404	Cloud Services for IoT	PE	Theory with Project	3	0	0	3
5.	CS606405	Computer Networks And Internet Protocol (NPTEL)	PE	Theory	3	0	0	3
6.	CS606406	Privacy and Security in IoT	PE	Theory	3	0	0	3
7.	CS606407	IoT Platform for Smart City Planning	PE	Theory	3	0	0	3
8.	CS606408	IoT for Smart Grids	PE	Theory	3	0	0	3
9.	CS606409	IoT and its Applications	PE	Theory with Project	3	0	0	3
10.	CS606410	Introduction To Industry 4.0 And Industrial Internet Of Things (NPTEL)	PE	Theory	3	0	0	3

Vertical 5 - Block chain

Sl. No	Course Code	Course Name		Classification	L	T	P	C
1.	CS606501	Foundations of Cryptography (NPTEL) (1)	PE	Theory	3	0	0	3
2.	CS606503	Blockchain Technologies (2)	PE	Theory	3	0	0	3
3.	CS606502	Blockchain And Its Applications (NPTEL) (3)	PE	Theory	3	0	0	3
4.	CS606504	Blockchain Architecture Design And Use Cases (NPTEL)	PE	Theory	3	0	0	3
5.	CS606505	Blockchain Platforms	PE	Theory	3	0	0	3
6.	CS606506	Blockchain Forensics	PE	Theory	3	0	0	3
7.	CS606507	Robot Manipulator Control	PE	Theory with Project	3	0	0	3
8.	CS606508	Computer Vision With Open cv	PE	Theory	3	0	0	3
9.	CS606509	Internet Security	PE	Theory	3	0	0	3

10.	CS606510	Intelligent Transport Systems	PE	Theory with Project	3	0	0	3
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Vertical 6 - Artificial Intelligence

Sl. No	Course Code	Course Name		Classification	L	T	P	C
1.	CS606710	Machine Learning Techniques (1)	PE	Theory	3	0	0	3
2.	CS606704	Artificial Intelligence And Reinforcement Learning (2)	PE	Theory	3	0	0	3
3.	CS606701	Artificial Intelligence In Finance	PE	Theory	3	0	0	3
4.	CS606702	Optimization For Machine Learning (NPTEL)	PE	Theory	3	0	0	3
5.	CS606703	Design Thinking In Artificial Intelligence	PE	Theory	3	0	0	3
6.	CS606705	Machine Learning For Soil And Crop Management (NPTEL)	PE	Theory with Project	3	0	0	3
7.	CS606706	Computational Intelligence	PE	Theory	3	0	0	3
8.	CS606707	Deep Learning For Visual Computing (NPTEL)	PE	Theory	3	0	0	3
9.	CS606708	Soft Computing	PE	Theory	3	0	0	3
10.	CS606709	Text And Speech Analysis	PE	Theory with Project	3	0	0	3