Bachelor of Technology in Computer Science and Engineering 2024-25

Annexure-II

C	Semester Course Code, Course Name (L-T-P)Credits							GP	Community	Hrs.	Per v	veek	Credits
1	MAL151 Engg. Maths-I (3-0-2)4	CSL106 FOCP-I (2-1-4)5	CHL150 Engg Chemistry (2-0-2)3	MEP110 Engineering Graphics & Drawing (1-0-4)3	CSL110 Problem Solving & Design Thinking (2-0-2)3			CSR118 GP 1 Credit	Services CSS101 CS-I	10	1	14	18+1 =19
2	MAL152 Engg. Maths-II (3-0-2)4	CSL108 FOCP-II (2-1-4)5	PYL150 Engineering Physics (3-0-2)4	MEL160 Basic of Mechanical Engg. (2-0-2)3	ECL110 Basic of Electrical & Electronics Engineering (2-0-2)3	CLL130 Effective CommI (1-0-2)2		CSR119 GP 1 Credit	CSS102 CS-II (140 Hrs)** 2 Credits	13	1	14	21+3 =24
Summer		T	T	l									
3	CSL214 DBMS (3-1-2)5	ECL255 DE & CA (3-0-2)4	Engg. Maths III (3-0-0)3	CSL215 Intro To Java (3-0-2)4	Program Elective - I (2-0-4)4	CLL140 Effective Comm-II (1-0-2)2		CSR218 GP 1 Credit	CSS201 CS-III	15	1	12	22+1 =23
4	CSL422 Cyber Security (3-0-2)4	CSL209 Data Structures (3-0-2)4	CLL120 HVPE (2-0-0-)2	(2-0-4)4	SML300 Entrepreneurship (3-0-0)3	Open Elective - 1 (3-0-0)3	CSV101 Skill Dev. (0-0-2)1	CSR219 GP 1 Credit	CSS202 CS-IV (140 Hrs) ** 2 Credits	16	0	10	21+3 =24
Summer			CST201 Inc	lustrial Training/interns	hip								2
5	CSL236 Introduction to AI & ML /	CSL-303 Operating	Program	CSL315	Open	CSL240 Computer	CSC 301	CCP210					
	CSL242 AI for Games (3-0-2)4	\$ystem (3-0-2)4	Elective-3 (2-0-4)4	Adv Java (3-0-2)4	Elective – 2 (3-0-0)3	Networks (3-0-2)4	Seminar 1 credit	CSR318 GP 1 Credit	CSS301 CS-V	17	0	12	24+1 =25
6	CSL242 AI for Games	System	Program Elective-4 (2-0-4)4	CSL 238 Introduction to Cloud Computing (3-0-2)4	Elective – 2 (3-0-0)3 Open Elective – 3 (3-0-0) 3	Networks		GP		17	0	12	=25 23+3 =26
6 Summer	CSL242 AI for Games (3-0-2)4 CSL229 SEPM	System (3-0-2)4 CSL230 Analysis and Design of Algorithms	Program Elective-4 (2-0-4)4	(3-0-2)4 CSL 238 Introduction to Cloud Computing	Elective – 2 (3-0-0)3 Open Elective – 3 (3-0-0) 3	Networks (3-0-2)4 Program Elective- 5		GP 1 Credit CSR319 GP	CS-V CSS302 CS-VI (140 Hrs)**				=25 23+3
	CSL242 AI for Games (3-0-2)4 CSL229 SEPM (3-0-2)4 Program Elective- 6 (2-0-4)4	System (3-0-2)4 CSL230 Analysis and Design of Algorithms	Program Elective-4 (2-0-4)4	CSL 238 Introduction to Cloud Computing (3-0-2)4	Elective – 2 (3-0-0)3 Open Elective – 3 (3-0-0) 3	Networks (3-0-2)4 Program Elective- 5		GP 1 Credit CSR319 GP	CS-V CSS302 CS-VI (140 Hrs)**		0		=25 23+3 =26
Summer	CSL242 AI for Games (3-0-2)4 CSL229 SEPM (3-0-2)4 Program Elective- 6 (2-0-4)4 Liberal Arts	System (3-0-2)4 CSL230 Analysis and Design of Algorithms (3-0-2) 4 Program Elective- 7	Program Elective-4 (2-0-4)4 CST301 Ind CSD401 Project # 1	CSL 238 Introduction to Cloud Computing (3-0-2)4 ustrial Training/ interns Open Elective-4 (MOOC)	Elective – 2 (3-0-0)3 Open Elective – 3 (3-0-0) 3 Ship CHL100 EVS	Program Elective- 5 (2-0-4) 4 Foreign Language		GP 1 Credit CSR319 GP	CS-V CSS302 CS-VI (140 Hrs)** 2 Credits CSS401	16	0	14	=25 23+3 =26 04

^{**} Students can utilize the summer/winter break period to complete the remaining 140 Community Service hours every year.

- The University shall conduct introductory sessions in the 1st semester on soft skills, which are a set of transferable skills and key personal traits essential for personality development.
- The University shall conduct special sessions in the 4th semester to reinforce the learnings of introductory training sessions conducted in the first year.
- Two value-added courses over and above the programme scheme shall be offered during the 5th & 6th semesters to impart special skills to students for enhancing their employability.
- Advanced sessions on soft skills shall be conducted in the 7th semester to hone up the preparedness of students for placements and make them industry ready for national and international jobs.

Track s	Trac ks	Data Science	Cloud Computing	Full Stack	Game Tech	Cyber Security	Blockchain	AI & ML	IoT & 5G	Other Electives
Program Elective-1	PE 1		CSL225 Programming for Data Science	CSL273 Enterprise Web Applications	CSL243 Game Design & Asset Creation	CSL 281 Secure Communication and Cryptography	of Modern	CSL 225 Programming for Data Science and Al	ECL256 Embedded Systems	MAL270 Numerical Methods
Program Elective-2	PE 2	CSL227 Applied Computational Statistics	Cloud Architecture	CSL274 Middleware Frameworks and ORM	CSL245 Programing for Games	CSL 284 Digital Forensics and Malware Analysis	CSL247 Intro.to blockchain technologies	CSL347 Applied Artificial Intelligence and Expert Systems	CSL238 Introductio n to Cloud Computing	CSL223 Web Development Technologies
Program Elective-3	PE 3	lintalliganca	CSL338 Virtualizatio n & Cloud Computing	CSL276 No SQL Databases	CSL244 Advanced Programmin g for Games	CSL 383 Network security	CSL355 Bitcoin and Cryptocurrency Technologies	CSL348 Reinforcement Learning	ECL252 Micro Controllers & Sensors	MAL280 Linear Algebra and its Applications
Program Elective-4	PE 4	CSL313 Machine Learning	CSL339 Big Data on Cloud	CSL253 Web Frameworks	CSL343 Designing Human Computer Interfaces	CSL387 Web and Mobile Security	CSL356 Smart Contracts	CSL349 Artificial Intelligence for Robotics	ECL316 Wireless & Mobile Communication	MAL260 Probability and Statistics
Program Elective-5	PE 5	CSL311 Big Data	CSL346 Artificial Intelligence & Machine Learning on Cloud	CSL371 Mobile Application Development	CSL246 Cross Platform Game Development	CSL385 Risk Analysis and Assessment	CSL357 Blockchain for Cyber Security	CSL312 Deep Learning	ECL352 Design for IOT	CSL 318 Theory of Computation
Program Elective-6	PE 6	CSL316 Introduction to Image Processing and Recognition	Development &	CSL373 Devops	CSL341 AR Development	CSL384 Cloud Security Essentials	CSL358 Blockchain Technology in Web Development	CSL447 Computer Vision	ECL367 Introductio n to 5G Technologies	
Program Elective-7	PE 7	CSL312 Deep Learning	CSL446 Cloud Security	CSL374 Micro service Based Applications	CSL345 VR Development	CSL382 Blockchain	CSL449 Security and Privacy for Big Data Analytics	CSL448 Computational Linguistics and Natural Language Processing	ECL368 Network and Security in IoT	

Program Electives for each track