KGiSL INSTITUTE OF TECHNOLOGY: COIMBATORE – 641 035
REGULATIONS 2024 (for students admitted from AY2024-25)
CHOICE BASED CREDIT SYSTEM
B. TECH. COMPUTER SCIENCE AND BUSINESS SYSTEMS
CURRICULUM FOR SEMESTERS I -VIII

OVERVIEW OF CREDITS

Sem	HSMC	BSC	ESC	PCC	PEC	OEC	EEC	Total
I	4	10	9					23
II	4	9	9				3	25
III		4	4	15			2	25
IV		4		14			6	24
V	2			10	6		3	21
VI				7	9	3	4	23
VII	3			4		3	7	17
VIII							9	9
Total	13	27	22	50	15	6	34	167
% of Category	7.8%	16.2%	13.2%	30%	9%	3.6%	20.4%	100%

CATEGORY OF COURSES

HSMC	Humanities Science and Management Course	PEC	Professional Elective Course
BSC	Basic Science Course	OEC	Open Elective Course
ESC	Engineering Science Course	EEC	Employability Enhancement Course
PCC	Professional Core Course	MC	Mandatory Course

TYPE OF COURSES

LIT	Laboratory Integrated Theory	PCD	Personality Character Development
T	Theory	VC	Value Added Course
L	Laboratory Course	COT	Community Outreach and Intervention through Technical Activities
IP	Induction Programme	IT	Industrial Training/ Internship
MC	Mandatory Course	CC	Comprehension Course
NCC	NCC Credit Course	PW	Project Work

CREDIT ALLOCATION

S.No.	Category		Credits
1	Humanities, Social Sciences and Management Courses (HSMC)		13
2	Basic Science Courses (BSC)	23 – 27	27
3	Engineering Science Courses (ESC)	18 - 22	22
4	Professional Core Courses (PCC)	50-62	50
5	Professional Elective Courses (PEC)	15-18	15
6	Open Elective Courses(OEC)	6	6
7	Employability Enhancement Courses(EEC)	30-36	34
8	Mandatory Courses (MC)	Non Credit	Non Credit
	Total	165 - 170	167

Semester – I

S.NO.	COURSE CODE	COURSE NAME	COURSE TYPE	PERIODS/WEEK L-T-P	TCP	CREDITS	CATEGORY
1	24UTA161	தமிழர் மரபு/Heritage of Tamils	T	1-0-0	1	1	HSMC
2	24UEN171	Communicative English for Engineers and Professionals - I	LIT	2-0-2	4	3	HSMC
3	24UMA161	Calculus and Matrix Algebra	T	3-1-0	4	4	BSC
4	24UPY171	Physics for Engineering and Technology	LIT	2-0-2	4	3	BSC
5	24UCH171	Engineering Chemistry	LIT	2-0-2	4	3	BSC
6	24UCS161	Computational Thinking	T	2-1-0	3	3	ESC
7	24UCS171	Python Programming	LIT	3-0-2	5	4	ESC
8	24UME266	Engineering Practices Laboratory	L	0-0-4	4	2	ESC
9	24UPD191	Personality and Character Development	PCD	-	2	-	
10	24UIP181	Induction Programme	IP	-	-	-	MC
11	24UMC001	Mandatory Course I - Yoga and Meditation Fundamentals	MC	1-0-0	1	-	MC
				Total Credits		23	

Semester – II

S.NO.	COURSE CODE	COURSE NAME	COURSE TYPE	PERIODS/WEEK L-T-P	TCP	CREDITS	CATEGORY
1	24UTA261	தமிழரும் தொழில் நுட்பமும்/ Tamils and Technology	T	1-0-0	1	1	HSMC
2	24UEN271	Communicative English for Engineers and Professionals - II	LIT	2-0-2	4	3	HSMC
3	24UMA261	Statistics and Numerical Methods	T	3-1-0	4	4	BSC
4	24UPY261	Physics for Information Science	T	3-0-0	3	3	BSC
5	24UCH261	Environmental Sciences and Sustainability	T	2-0-0	2	2	BSC
6	24UCS271	Programming in C	LIT	3-0-2	5	4	ESC
7	24UEC272	Basic Electrical and Electronics Engineering	LIT	2-0-2	4	3	ESC
8	24UME166	Engineering Graphics	L	0-0-4	4	2	ESC
9	24USD296	Skill Development Course	LIT	2-0-2	4	3	EEC
10	24UPD291	Personality and Character Development	PCD	-	2	-	EEC
11	24UMC002	Mandatory Course II - Emotional Balance and Mental Wellness	MC	1-0-0	1	-	MC
12	24UNC201	NCC Credit Course Level 1	NCC	-	-	1	-
				Total Credits		25	

SEMESTER – III

S.NO.	COURSE CODE	COURSE NAME	COURSE TYPE	PERIODS/WEEK		CREDITS	CATEGORY
				L-T-P	TCP		
1	24UMA361	Algebra and Combinatorics	T	3-1-0	4	4	BSC
2	24UEC341	Digital Principles and Computer Organization	LIT	3-0-2	5	4	ESC
3	24UCB301	Fundamentals of Economics	T	3-0-0	3	3	PCC
4	24UCS311	Data Structures	LIT	2-0-4	6	4	PCC
5	24UCS312	Object Oriented Programming	LIT	3-0-2	5	4	PCC
6	24UCS414	Operating Systems	LIT	3-0-2	5	4	PCC
7		Skill Development Elective – I	L	0-0-4	4	2	EEC
8	24UPD391	Personality and Character Development	PCD	-	2	-	EEC
9	24UVC386	Value Added Course	VC	-	-	2	EEC
				TOTAL CREDITS		25	

SEMESTER – IV

S.NO.	COURSE CODE	COURSE NAME	COURSE TYPE	PERIODS /WEEK		CREDITS	CATEGORY
				L-T-P	TCP		
1	24UMA461	Probability and Number Theory	T	3-1-0	4	4	BSC
2	24UCS301	Design and Analysis of Algorithms	T	3-1-0	4	4	PCC
3	24UCB411	Exploratory Data Analysis in Business	LIT	2-0-2	4	3	PCC
4	24UCS412	Database Management Systems	LIT	3-0-2	5	4	PCC
5	24UCB412	Introduction to Web Technologies	LIT	2-0-2	4	3	PCC
6		Career Progression Elective	T	3-0-0	3	3	EEC
7		Skill Development Elective - II	L	0-0-4	4	2	EEC
8	24UCO492	Community Outreach And Intervention through Technical Activities	COT	-	1	1	EEC
9	24UPD491	Personality and Character Development	PCD	-	2	-	EEC
10	24UVC486	Value Added Course	VC	-	-	2	EEC
11	24UNC401	NCC Credit Course Level 2	NCC	-	-	2	-
				TOTAL CREDITS		24	

SEMESTER – V

S.NO.	COURSE CODE	COURSE NAME	COURSE TYPE	PERIODS/ WEEK L-T-P	PERIODS/ WEEK TCP	CREDITS	CATEGORY
1	24UHV501	Universal Human Values	T	2-0-0	2	2	HSMC
2	24UCB511	Data and Information Security	LIT	2-0-2	4	3	PCC
3	24UCB512	Fundamentals of Data Science and Analytics	LIT	3-0-2	5	4	PCC
4	24UCB513	Object oriented approach for Software Engineering	LIT	2-0-2	4	3	PCC
5		Professional Elective I (Marketing and Finance)	T/LIT	-	-	3	PEC
6		Professional Elective II	T/LIT	-	-	3	PEC
7		Skill Development Elective - III	L	0-0-4	4	2	EEC
8	24UCB593	Industrial Training/ Internship		-	-	1	EEC
9	24UPD591	Personality and Character Development		-	2	-	EEC
10	24UVC586	Value Added Course		-	-	2	EEC
11		Mandatory Course III		2-0-0	2	-	MC
					TOTAL CREDITS	21	

SEMESTER – VI

S.NO.	COURSE CODE	COURSE NAME	COURSE TYPE	PERIODS /WEEK L-T-P	PERIODS /WEEK TCP	CREDITS	CATEGORY
1	24UCS411	Artificial Intelligence and Machine Learning	LIT	3-0-2	5	4	PCC
2	24UIT512	Embedded Systems and IoT	LIT	2-0-2	4	3	PCC
3		Professional Elective III	T/LIT	-	-	3	PEC
4		Professional Elective IV	T/LIT	-	-	3	PEC
5		Professional Elective V	T/LIT	-	-	3	PEC
6		Open Elective – I	T/LIT	-	-	3	OEC
7		Skill Development Elective - IV	L	0-0-4	4	2	EEC
8	24UPD691	Personality and Character Development	PCD	-	2	-	EEC
9	24UCO692	Community Outreach and Intervention through Technical Activities	COT	-	-	2	EEC
10	24UVC686	Value Added Course	VC	-	-	2	EEC
11		Mandatory Course IV	MC	2-0-0	2	-	MC
12	24UNC601	NCC Credit Course Level 3	NCC	-	-	3	-
		TOTAL CREDITS				23	

SEMESTER – VII

S.NO.	COURSE CODE	COURSE NAME	COURSE TYPE	PERIODS/WEEK		CREDITS	CATEGORY
				L-T-P	TCP		
1		Elective (Management)	T/LIT	3-0-0	3	3	HSMC
2	24UCB711	Business Analytics	LIT	3-0-2	5	4	PCC
3		Open Elective - II	T/LIT	-	-	3	OEC
4	24UCB793	Industrial Training / Internship	IT	-	-	2	EEC
5	24UCB794	Comprehension Course	CC	2-0-0	2	2	EEC
6	24UCB795	Project Work - Phase 1	PW	0-0-4	4	3	EEC
7	24UVC786	Value Added Course	VC	-	-	2	EEC
TOTAL CREDITS						17	

SEMESTER – VIII

S.NO.	COURSE CODE	COURSE NAME	COURSE TYPE	PERIODS/WEEK		CREDITS	CATEGORY
				L-T-P	TCP		
1.	24UCB895	Project Work - Phase 2	PW	0-0-20	20	9	EEC
TOTAL CREDITS						9	

MANDATORY COURSES

S.NO.	COURSE CODE	COURSE TITLE	COURSE TYPE	PERIODS PER WEEK		CATEGORY
				L-T-P	TCP	
1.	24UMC001	Yoga and Meditation Fundamentals	T	1-0-0	1	MC
2.	24UMC002	Emotional Balance and Mental Wellness	T	1-0-0	1	MC
3.	24UMC003	Ethical behavior and code of conduct for Engineers	T	2-0-0	2	MC
4.	24UMC004	Disaster Management	T	2-0-0	2	MC
5.	24UMC005	Indian Constitution and Knowledge System	T	2-0-0	2	MC
6.	24UMC006	Ergonomics and Industrial Safety	T	2-0-0	2	MC
7.	24UMC007	Introduction to Women and Gender Studies	T	2-0-0	2	MC

CAREER PROGRESSION ELECTIVE

S.NO.	COURSE CODE	COURSE TITLE	COURSE TYPE	PERIODS PER WEEK		CREDITS	CATEGORY
				L-T-P	TCP		
1.	24UCPE11	Entrepreneurship Development	T	3-0-0	3	3	EEC
2.	24UCPE12	Research Methodology	T	3-0-0	3	3	EEC
3.	24UCPE13	Career Development Course	T	3-0-0	3	3	EEC

SKILL DEVELOPMENT ELECTIVES

Verticals / Semester	III	IV	V	VI
Artificial Intelligence And Data Analytics (AD)	24USDE11 Data Analytics for Data Science	24USDE12 Machine Learning With Python	24USDE13 Convolutional Neural Networks	24USDE14 MLOps
Blockchain and Web3.0 (BW)	24USDE21 Blockchain Fundamentals	24USDE22 Decentralized Applications	24USDE23 Full-Stack DAPP Development	24USDE24 Blockchain Scalability, Interoperability & Security
Cloud & Devops (CD)	24USDE31 Fundamentals of Devops	24USDE32 Devops Toolchain	24USDE33 Cloud-Native Devops Lab	24USDE34 Devsecops & Observability
Cyber Security (CS)	24USDE41 Cyber Security Practical	24USDE42 SECOPS & Ethical Hacking Practical	24USDE43 Intermediate Ethical Hacking Techniques – Practical	24USDE44 SOC & Incident Response
Embedded Systems (EI)	24USDE51 Fundamentals of Electronics	24USDE52 Comprehensive Embedded Systems	24USDE53 Real-Time Embedded Systems Lab	24USDE54 IoT Systems and Applications

	24USDE61			
		Engineering		
Design, Manufacturing and Automation (MA)	24USDE61 Design Thinking & SolidWorks Practice Lab	24USDE62 Digital Manufacturing & Design Practice	24USDE63 3D Printing	24USDE64 Advanced Robotics
Full Stack Web Development (FW)	24USDE71 Introduction To Full-Stack Development	24USDE72 JAVA Foundations	24USDE73 Interfaces With React & Express.JS	24USDE74 Mastering UI and Software Quality Engineering

PROFESSIONAL ELECTIVE COURSES (PEC)

VERTICAL I: CLOUD COMPUTING AND DATA CENTER TECHNOLOGIES							
S.NO.	COURSE CODE	COURSE NAME	COURSE TYPE	PERIODS/WEEK		CREDITS	CATEGORY
				L-T-P	TCP		
1	24UITP01	Cloud Computing and Virtualization	LIT	2-0-2	4	3	PEC
2	24UITP02	Cloud Services Management	LIT	2-0-2	4	3	PEC
3	24UITP03	Data Warehousing	LIT	2-0-2	4	3	PEC
4	24UITP04	Storage Technologies	LIT	2-0-2	4	3	PEC
5	24UITP05	Software Defined Networks	T	3-0-0	3	3	PEC
6	24UITP06	Security and Privacy in Cloud	LIT	2-0-2	4	3	PEC
7	24UITP07	Edge Computing and IoT	LIT	2-0-2	4	3	PEC
8	24UITP08	Serverless Computing	LIT	2-0-2	4	3	PEC
9	24UITP09	IoT Applications	LIT	2-0-2	4	3	PEC

VERTICAL II: MANAGEMENT							
S.NO.	COURSE CODE	COURSE NAME	COURSE TYPE	PERIODS/WEEK		CREDITS	CATEGORY
				L-T-P	TCP		
1	24UCBP01	Customer Relation Management	T	3-0-0	3	3	HSMC
2	24UCBP02	Human Resource Management for Entrepreneurs	T	3-0-0	3	3	HSMC
3	24UCBP03	Supply Chain Management	T	3-0-0	3	3	HSMC
4	24UCBP04	IT Project Management	LIT	2-0-2	3	3	HSMC
5	24UCBP05	Behavioral Economics	T	3-0-0	3	3	HSMC
6	24UCBP06	E-Commerce	T	3-0-0	3	3	HSMC
7	24UCBP07	Enterprise Resource Planning	T	3-0-0	3	3	HSMC
8	24UCBP08	Financial Technology Innovations	T	3-0-0	3	3	HSMC

VERTICAL III: MARKETING AND FINANCE

S.NO.	COURSE CODE	COURSE NAME	COURSE TYPE	PERIODS/ WEEK		CREDITS	CATE GOR Y
				L-T-P	TCP		
1	24UCBP09	Financial Analytics	T	3-0-0	3	3	PEC
2	24UCBP10	Digital Marketing Strategies	T	3-0-0	3	3	PEC
3	24UCBP11	Conversational Systems	T	3-0-0	3	3	PEC
4	24UCBP12	Social Text and Media Analytics	T	3-0-0	3	3	PEC
5	24UCBP13	Marketing Research and Marketing Management	T	3-0-0	3	3	PEC
6	24UCBP14	Risk Analytics	T	3-0-0	3	3	PEC
7	24UCBP15	Enterprise Security	T	3-0-0	3	3	PEC
8	24UCBP16	Computational Finance and Modeling	T	3-0-0	3	3	PEC
9	24UCBP17	Financial Management	T	3-0-0	3	3	PEC

VERTICAL IV: INTELLIGENCE SYSTEMS & MACHINE LEARNING

S.NO.	COURSE CODE	COURSE NAME	COURSE TYPE	PERIODS / WEEK		CREDITS	CATE GOR Y
				L-T-P	TCP		
1	24UAMP01	Knowledge Engineering	T	3-0-0	3	3	PEC
2	24UAMP02	Soft Computing	LIT	2-0-2	4	3	PEC
3	24UAMP03	Text and Speech Analysis	LIT	2-0-2	4	3	PEC
4	24UAMP04	Optimization Methods for ML Algorithms	T	3-0-0	3	3	PEC
5	24UAMP05	Game Theory	T	3-0-0	3	3	PEC
6	24UAMP06	Cognitive Science	T	3-0-0	3	3	PEC
7	24UAMP07	Reinforcement Learning	T	3-0-0	3	3	PEC
8	24UAMP08	Security in AI	T	3-0-0	3	3	PEC

S.NO.	COURSE CODE	COURSE NAME	COURSE TYPE	PERIODS/ WEEK L-T-P	TCP	CREDITS	CATE GOR Y
VERTICAL V: DATA SCIENCE & ANALYTICS
1	24UCBP18	Predictive Analytics	T	3-0-0	3	3	PEC
2	24UCBP19	Recommender Systems	LIT	2-0-2	4	3	PEC
3	24UCBP20	Neural Networks and Deep Learning	T	3-0-0	3	3	PEC
4	24UCBP21	Image and Video Analytics	LIT	2-0-2	4	3	PEC
5	24UCBP22	Computer Vision	T	3-0-0	3	3	PEC
6	24UCBP23	DevOps and Software Deployment	LIT	2-0-2	4	3	PEC
7	24UCBP24	Business Intelligence	LIT	2-0-2	4	3	PEC
8	24UCBP25	Parallel and Distributed Computing	LIT	2-0-2	4	3	PEC

S.NO.	COURSE CODE	COURSE NAME	COURSE TYPE	PERIODS / WEEK L-T-P	TCP	CREDITS	CATE GOR Y
VERTICAL VI: DIGITAL TECHNOLOGY
1	24UAD612	Augmented Reality and Virtual Reality	LIT	2-0-2	4	3	PEC
2	24UCBP26	Robotic Process Automation	LIT	2-0-2	4	3	PEC
3	24UCBP27	Modern Web Applications	LIT	2-0-2	4	3	PEC
4	24UCBP28	Cyber Security	LIT	2-0-2	4	3	PEC
5	24UCBP29	Quantum Computing	T	3-0-0	3	3	PEC
6	24UCBP30	Cryptocurrency and Blockchain Technologies	LIT	2-0-2	4	3	PEC
7	24UCBP31	Human Computer Interaction	T	3-0-0	3	3	PEC
8	24UCSP04	Mobile Application Development	LIT	2-0-2	4	3	PEC

OPEN ELECTIVES

B. TECH. ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

S.NO.	COURSE CODE	COURSE TITLE	COURSE TYPE	PERIODS/WEEK L-T-P	TCP	CREDITS
1	24UADO01	Introduction to Artificial Intelligence and Machine Learning	T	3-0-0	3	3
2	24UADO02	Introduction to Data Science	T	3-0-0	3	3
3	24UADO03	Introduction to Big Data Analytics	T	3-0-0	3	3
4	24UADO04	Data Visualization Techniques	T	3-0-0	3	3
5	24UADO05	Introduction to Devops Tools	T	3-0-0	3	3
6	24UADO06	Fundamentals of Storage Technologies	T	3-0-0	3	3
7	24UADO07	Basics of Cloud Services	T	3-0-0	3	3

B.E. CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)

S.NO.	COURSE CODE	COURSE TITLE	COURSE TYPE	PERIODS/WEEK L-T-P	TCP	CREDITS
1	24UAMO01	Fundamentals of Artificial Intelligence	T	3-0-0	3	3
2	24UAMO02	Principles of Machine Learning	T	3-0-0	3	3
3	24UAMO03	Fundamentals of Deep Learning	LIT	2-0-2	4	3
4	24UAMO04	Virtualization and Container Technologies	LIT	2-0-2	4	3
5	24UAMO05	Python Frameworks for Web Applications	LIT	2-0-2	4	3
6	24UAMO06	Fundamentals of Natural Language Processing	T	3-0-0	3	3
7	24UAMO07	AI for Mechanical Engineering	T	3-0-0	3	3
8	24UAMO08	AI for food processing	T	3-0-0	3	3
9	24UAMO09	AI for Game Development	T	3-0-0	3	3

B.E Computer Science and Engineering

S.NO.	COURSE CODE	COURSE TITLE	COURSE TYPE	PERIODS/WEEK	CREDITS
1	24UCSO01	Fundamentals of Data Structures	LIT	2-0-2	4	3
2	24UCSO02	Principles of Computer Networks	LIT	2-0-2	4	3
3	24UCSO03	Video Creation and Editing	LIT	2-0-2	4	3
4	24UCSO04	Fundamentals of Database Systems	LIT	2-0-2	4	3
5	24UCSO05	Basics of Web Development	LIT	2-0-2	4	3
6	24UCSO06	Introduction to Digital Currency	T	3-0-0	3	3

B.E. COMPUTER SCIENCE AND ENGINEERING (CYBER SECURITY)

S.NO.	COURSE CODE	COURSE TITLE	COURSE TYPE	PERIODS/WEEK L-T-P	TCP	CREDITS
1.	24UCYO01	Cybersecurity Fundamentals	T	3-0-0	3	3
2.	24UCYO02	Information Security Management	T	3-0-0	3	3
3.	24UCYO03	Incident Response and Forensics	T	3-0-0	3	3
4.	24UCYO04	Cyber Law and Ethics	T	3-0-0	3	3
5.	24UCYO05	Security Operations	T	3-0-0	3	3
6.	24UCYO06	Introduction to Open Source Intelligence.	T	3-0-0	3	3

B.E. ELECTRONICS AND COMMUNICATION ENGINEERING

S.NO.	COURSE CODE	COURSE TITLE	COURSE TYPE	PERIODS/WEEK L-T-P	TCP	CREDITS
1	24UECO01	Remote Sensing Concepts	T	3-0-0	3	3
2	24UECO02	Sensors and Actuators	T	3-0-0	3	3
3	24UECO03	Concepts in Mobile Robots	T	3-0-0	3	3
4	24UECO04	Drone Technologies	T	3-0-0	3	3
5	24UECO05	Geographical Information System	T	3-0-0	3	3
6	24UECO06	Introduction to Embedded C	LIT	2-0-2	4	3
7	24UECO07	Fundamentals of Microprocessors and Microcontrollers	LIT	2-0-2	4	3
8	24UECO08	Energy Storing Devices	T	3-0-0	3	3
9	24UECO09	Semiconductor and Devices	T	3-0-0	3	3

B.Tech. INFORMATION TECHNOLOGY

S.NO	COURSE CODE	COURSE TITLE	COURSE TYPE	PERIODS/WEEK L-T-P	TCP	CREDITS
1	24UITO01	Information Technology Essentials	LIT	2-0-2	4	3
2	24UITO02	Fundamentals of Cryptography	LIT	2-0-2	4	3
3	24UITO03	Software Engineering	T	3-0-0	3	3
4	24UITO04	Concepts of Object Oriented Programming	LIT	2-0-2	4	3
5	24UITO05	Information Retrieval and Web Mining	LIT	2-0-2	4	3
6	24UITO06	Foundations of Block chain	LIT	2-0-2	4	3
7	24UITO07	Cloud Computing Essentials	LIT	2-0-2	4	3

B.E. MECHANICAL ENGINEERING

S. NO	COURSE CODE	COURSE TITLE	COURSE TYPE	PERIODS/WEEK		CREDITS
				L-T-P	TCP	
1	24UMEO01	Fundamentals of Additive Manufacturing	T	3-0-0	3	3
2	24UMEO02	Renewable Energy Systems	T	3-0-0	3	3
3	24UMEO03	Principles of Safety Management	T	3-0-0	3	3
4	24UMEO04	Introduction to Mechatronics Systems	T	3-0-0	3	3
5	24UMEO05	Product Design and Development	T	3-0-0	3	3
6	24UMEO06	Fundamentals of Electrical Vehicle Technology	T	3-0-0	3	3

B.E. ROBOTICS AND AUTOMATION

S. NO	Course Code	Course Title	Course Type	Periods Per Week		Credits
				L-T-P	TCP	
1	24URAO01	Introduction to Robotics	T	3-0-0	3	3
2	24URAO02	Industrial Automation and Control Systems	T	3-0-0	3	3
3	24URAO03	Mechatronics Systems and Applications	T	3-0-0	3	3
4	24URAO04	Robotics Software Development and Simulation	T	3-0-0	3	3
5	24URAO05	Industrial IoT and Sensor Networks	T	3-0-0	3	3
6	24URAO06	Artificial Intelligence in Robotics	T	3-0-0	3	3
7	24URAO07	Blockchain and Secure Data Management in Robotics	T	3-0-0	3	3
8	24URAO08	Predictive Maintenance and Condition Monitoring	T	3-0-0	3	3

Department of Computer Science and Business Systems
Guidelines for choosing Courses under PEC

	PEC- I	PEC- II	PEC- III	PEC- IV	PEC- V	Elective (MGMT)
	M & F	CC & DCT	IS & ML	DS & A	DT	MGMT
Cluster A	24UCBP09 - Financial Analytics	24UITP01 - Cloud Computing and Virtualization	24UAMP01 - Knowledge Engineering	24UCBP22 - Computer Vision	24UAD612 - Augmented Reality and Virtual Reality	24UCBP01 - Customer Relation Management
	24UCBP16 - Computational Finance and Modeling	24UITP02 - Cloud Services Management	24UAMP06 - Cognitive Science	24UCBP21 - Image and Video Analytics	24UCBP26 - Robotic Process Automation	24UCBP03 - Supply Chain Management
	24UCBP17 - Financial Management	24UITP04 - Storage Technologies			24UCBP29 - Quantum Computing	24UCBP06 - E-Commerce
		24UITP06 - Security and Privacy in Cloud			24UCBP30 - Cryptocurrency and Blockchain Technologies	
		24UITP08 - Serverless Computing				
Cluster B	24UCBP10 - Digital Marketing Strategies	24UITP05 - Software Defined Networks	24UAMP02 - Soft Computing	24UCBP24 - Business Intelligence	24UCBP27 - Modern Web Applications	24UCBP07 - Enterprise Resource Planning
	24UCBP13 - Marketing Research and Marketing Management		24UAMP03 - Text and Speech Analysis	24UCBP18 - Predictive Analytics	24UCBP31 - Human Computer Interaction	24UCBP08 - Financial Technology Innovations
			24UAMP04 - Optimization	24UCBP19 - Recommender Systems	24UCSP04 - Mobile Application Development	

			Methods for ML Algorithms			
			24UAMP05 - Game Theory			
Cluster C	24UCBP11 - Conversational Systems	24UITP07 - Edge Computing and IoT	24UAMP08 - Security in AI	24UCBP23 - DevOps and Software Deployment	24UCBP28 - Cyber Security	24UCBP02 - Human Resource Management for Entrepreneurs
	24UCBP15 - Enterprise Security	24UITP09 - IoT Applications				24UCBP05 - Behavioral Economics
Cluster D	24UCBP12 - Social Text and Media Analytics	24UITP03 - Data Warehousing		24UCBP25 - Parallel and Distributed Computing		24UCBP04 - IT Project Management
	24UCBP14 - Risk Analytics					
Cluster E			24UAMP07 - Reinforcement Learning	24UCBP20 - Neural Networks and Deep Learning		
Pre-requisite Courses	24UCB301 - Fundamentals of Economics	24UEC341 - Digital Principles and Computer Organization	24UCB512 - Fundamentals of Data Science and Analytics	24UCS301 - Design and Analysis of Algorithms	24UCB412 - Introduction to Web Technologies	
	24UCB411 - Exploratory Data Analysis in Business	24UCS414 - Operating Systems		24UCS412 - Database Management Systems	24UCB511 – Data and Information Security	
				24UCB513 - Object Oriented Software Engineering		

Criteria for Choosing Courses for Professional Electives

PEC – I : Any course from any cluster is fine
PEC - II : Any course from any cluster is fine
PEC - III : Any course from any cluster is fine.
PEC - IV: Any course from any cluster is fine
PEC - V: Any course from any cluster is fine
Elective Management – Choose only from Management Vertical

* It is better to choose Courses from a Cluster in the prescribed order

Open elective - Course Preferences List

S.No	Departments	Course Preference
1	AI & DS	24UADO03, 24UADO04
2	AI & ML	24UAMO03, 24UAMO04, 24UAMO05, 24UAMO06, 24UAMO08. 24UAMO09
3	CSBS	24UCBO02, 24UCBO03, 24UCBO04, 24UCBO07
4	CYS	24UCYO03, 24UCYO04, 24UCYO05, 24UCYO06
5	ECE	24UECO01 to 24UECO08
6	IT	24UITO06
7	Mechanical	24UMEO02, 24UMEO06
8	R&A	24URAO04 - 24URAO07

(DEAN ACADEMICS)

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