



K. S. R COLLEGE OF ENGINEERING
An Autonomous Institution
Approved by AICTE and Affiliated to Anna University, Chennai
Accredited by NAAC ('A++' Grade)

**Curriculum
UG
R - 2024**

Department Department of Computer Science and Engineering

Programme B.E. Computer Science and Engineering (IOT)

SEMESTER I

S. No.	Course Code	Course Title	Category	Periods / Week				Credit	Max. Marks		
				L	T	P	Tot		CA	ES	Tot
Induction Programme			-	-	-	-	-	-	-	-	

THEORY COURSES

1	24ENT19	Professional Communication	HSMC	3	0	0	3	3	40	60	100
2	24EET06	Basics of Electrical and Electronics Engineering	ESC	3	0	0	3	3	40	60	100
3	24ITT16	Programming for Problem Solving	ESC	3	0	0	3	3	40	60	100
4	24GET19	தமிழ்மரபு / Heritage of Tamils	HSMC	1	0	0	1	1	40	60	100

THEORY COURSES WITH LABORATORY COMPONENT

5	24MAI19	Matrices and Calculus	BSC	2	1	2	5	4	50	50	100
6	24CHIO6	Chemistry for Engineers	BSC	3	0	2	5	4	50	50	100

LABORATORY COURSES

7	24ITP16	Programming for Problem Solving Laboratory	ESC	0	0	2	2	1	60	40	100
8	24AUP16	Engineering Graphics Laboratory	ESC	1	0	2	3	2	60	40	100
9	24GEP16	Engineering Experience Laboratory	ESC	0	0	2	2	1	60	40	100

EMPLOYABILITY ENHANCEMENT COURSE

10	24SSP19	Aptitude and Coding Skills-I	EEC	0	0	2	2	1	100	-	100
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TOTAL 16 1 12 29 23 1000

SEMESTER II

S. No.	Course Code	Course Title	Category	Periods / Week				Credit	Max. Marks		
				L	T	P	Tot		CA	ES	Tot

THEORY COURSES

1	24CST26	Python Programming	ESC	3	0	0	3	3	40	60	100
2	24ITT21	Design Thinking	PCC	2	0	0	2	2	40	60	100
3	24GET29	தமிழ்மரபும் தொழில்நுட்பமும்/ Tamils and Technology	HSMC	1	0	0	1	1	40	60	100

THEORY COURSES WITH LABORATORY COMPONENT

4	24MAI29	Probability and Statistics	BSC	2	1	2	5	4	50	50	100
5	24PHI07	Engineering Physics	BSC	3	0	2	5	4	50	50	100
6	24ECI26	Digital Principles and System Design	ESC	3	0	2	5	4	40	60	100

LABORATORY COURSES

7	24ENP29	Professional Communication Laboratory	HSMC	0	0	2	2	1	60	40	100
8	24CSP29	Python Programming Laboratory	ESC	0	0	2	2	1	60	40	100

EMPLOYABILITY ENHANCEMENT COURSE

9	24SSP29	Aptitude and Coding Skills-II	EEC	0	0	2	2	1	100	-	100
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MANDATORY COURSE											
10	24MCP09	Mandatory Course – I	MC	0	0	1	1	0	--	---	---
TOTAL				14	1	13	28	21	900		

SEMESTER III											
S. No.	Course Code	Course Title	Category	Periods / Week				Credit	Max. Marks		
				L	T	P	Tot		CA	ES	Tot
THEORY COURSES											
1	24MAT37	Discrete Mathematics	BSC	3	1	0	4	4	40	60	100
2	24CST36	Data Structures and Algorithms	ESC	3	0	0	3	3	40	60	100
3	24CST37	Java Programming	PCC	3	0	0	3	3	40	60	100
4	24IOT31	Operating Systems for IoT	PCC	3	0	0	3	3	40	60	100
5	24IOT32	IoT Architecture and its Applications	PCC	3	0	0	3	3	40	60	100
LABORATORY COURSES											
6	24CSP36	Data structures and Algorithms Laboratory	ESC	0	0	2	2	1	60	40	100
7	24CSP37	Java Programming Laboratory	PCC	0	0	2	2	1	60	40	100
8	24IOP31	Operating Systems for IoT Lab	PCC	0	0	2	2	1	60	40	100
9	24XXP3n	Design Studio – I	PCC	0	0	2	2	1	100	--	100
EMPLOYABILITY ENHANCEMENT COURSE											
10	24SSP39	Aptitude and Coding Skills-III	EEC	0	0	2	2	1	100	-	100
TOTAL				15	1	10	26	21	1000		

SEMESTER IV											
S. No.	Course Code	Course Title	Category	Periods / Week				Credit	Max. Marks		
				L	T	P	Tot		CA	ES	Tot
THEORY COURSES											
1	24MAT46	Linear Algebra and Numerical Methods	BSC	3	1	0	4	4	40	60	100
2	24ITT46	Database Management Systems	PCC	3	0	0	3	3	40	60	100
3	24ECT46	Microprocessors and Microcontrollers	ESC	3	0	0	3	3	40	60	100
4	24IOT46	Foundation of Data Science	PCC	3	0	0	3	3	40	60	100
5	24GET49	Universal Human Values	HSMC	3	0	0	3	3	40	60	100
THEORY COURSES WITH LABORATORY COMPONENT											
6	24IOI41	Sensors and Actuator Devices	PCC	3	0	2	5	4	50	50	100
LABORATORY COURSES											
7	24ITP46	Database Management Systems Laboratory	PCC	0	0	2	2	1	60	40	100
8	24ECP46	Microprocessors and Microcontrollers laboratory	ESC	0	0	2	2	1	60	40	100
9	24XXP4n	Design Studio-II	PCC	0	0	2	2	1	100	---	100
EMPLOYABILITY ENHANCEMENT COURSE											
10	24SSP49	Aptitude and Coding Skills-IV	EEC	0	0	2	2	1	100	-	100
TOTAL				18	1	10	29	24	1000		

SEMESTER V

S. No.	Course Code	Course Title	Category	Periods / Week				Credit	Max. Marks		
				L	T	P	Tot		CA	ES	Tot
THEORY COURSES											
1	24CST56	Computer Networks	PCC	3	0	0	3	3	40	60	100
2	24CDT06	Principles of Compiler Design	PCC	3	1	0	4	4	40	60	100
3	24IOT56	Artificial Intelligence	PCC	3	0	0	3	3	40	60	100
4		Professional Elective – I	PEC	3	0	0	3	3	40	60	100
5		Professional Elective – II	PEC	3	0	0	3	3	40	60	100
6		Open Elective – I	OEC	3	0	0	3	3	40	60	100
LABORATORY COURSES											
7	24CSP56	Networks Laboratory	PCC	0	0	2	2	1	60	40	100
8	24IOP51	Artificial Intelligence Laboratory	PCC	0	0	2	2	1	60	40	100
EMPLOYABILITY ENHANCEMENT COURSE											
9	24XXP5n	Internship – I	EEC	0	0	0	0	1	100	-	100
MANDATORY COURSE											
10	24MCT5n	Mandatory Course – II	MC	2	0	0	2	0	100	-	100
TOTAL				20	1	4	25	22	800		

SEMESTER VI

S. No.	Course Code	Course Title	Category	Periods / Week				Credit	Max. Marks		
				L	T	P	Tot		CA	ES	Tot
THEORY COURSES											
1	24IOT61	Essentials of Web Programming	PCC	3	0	0	3	3	40	60	100
2	24IOT62	Privacy and Security in IoT	PCC	3	0	0	3	3	40	60	100
3	24IOT67	IoT and Cloud Computing	PCC	3	0	0	3	3	40	60	100
4		Professional Elective – III	PEC	3	0	0	3	3	40	60	100
5		Professional Elective – IV	PEC	3	0	0	3	3	40	60	100
6		Open Elective – II	OEC	3	0	0	3	3	40	60	100
LABORATORY COURSE											
7	24IOP66	IoT and Cloud Computing Laboratory	PCC	0	0	2	2	1	60	40	100
EMPLOYABILITY ENHANCEMENT COURSE											
8	24XXP6n	Mini Project	EEC	0	0	4	4	2	60	40	100
MANDATORY COURSE											
9	24MCT6n	Mandatory Course – III	MC	2	0	0	2	0	100	--	100
TOTAL				20	0	6	26	21	900		

SEMESTER VII											
S. No.	Course Code	Course Title	Category	Periods / Week				Credit	Max. Marks		
				L	T	P	Tot		CA	ES	Tot
THEORY COURSES											
1	24GET79	Professional Ethics	HSMC	3	0	0	3	3	40	60	100
2	24MGT7n	Management Elective	HSMC	3	0	0	3	3	40	60	100
3	24IOT71	Programming with IoT Computing Boards	PCC	3	1	0	4	4	40	60	100
4		Professional Elective – V	PEC	3	0	0	3	3	40	60	100
5		Professional Elective – VI	PEC	3	0	0	3	3	40	60	100
6		Open Elective –III	OEC	3	0	0	3	3	40	60	100
LABORATORY COURSE											
7	24IOP71	Programming with IoT Computing Boards Laboratory	PCC	0	0	2	2	1	50	50	100
EMPLOYABILITY ENHANCEMENT COURSE											
8	24XXP7n	Project work Phase - I	EEC	0	0	4	4	2	100	-	100
9	24XXP7n	Internship – II	EEC	0	0	0	0	1	100	-	100
TOTAL				18	0	6	24	22	800		
SEMESTER VIII											
S. No.	Course Code	Course Title	Category	Periods / Week				Credit	Max. Marks		
				L	T	P	Tot		CA	ES	Tot
EMPLOYABILITY ENHANCEMENT COURSE											
1.	24XXP81	Project Work Phase – II	EEC	0	0	16	16	8	40	60	100
TOTAL				0	0	16	16	8	100		
TOTAL CREDITS								163			

**TOTAL NUMBER OF CREDITS TO BE EARNED FOR
AWARD OF THE DEGREE = 163**

Note:HSMC- Humanities and Social Sciences including Management courses, BSC - Basic Science Courses, ESC - Engineering Science Courses, PCC - Professional core courses, PEC- Professional Elective courses, OEC - Open Elective courses, EEC – Employability Enhancement Courses &MC- Mandatory courses.

HUMANITIES, SOCIAL SCIENCE AND MANAGEMENT COURSES (HSMC)											
S. No.	Course Code	Course Title	Semester	Periods / Week				Credit	Max. Marks		
				L	T	P	Tot		CA	ES	Tot
1	24ENT19	Professional Communication	I	3	0	0	3	3	40	60	100
2	24GET19	தமிழ்மரபு / Heritage of Tamils	I	1	0	0	1	1	40	60	100
3	24GET29	தமிழரும் தொழில்நுட்பமும்/ Tamils and Technology	II	1	0	0	1	1	40	60	100
4	24ENP29	Professional Communication Laboratory	II	0	0	2	2	1	60	40	100
5	24GET49	Universal Human Values	IV	3	0	0	3	3	40	60	100
6	24GET79	Professional Ethics	HSMC	3	0	0	3	3	40	60	100
7	24MGT7n	Management Elective	HSMC	3	0	0	3	3	40	60	100
TOTAL				14	0	2	16	15	300	400	700

BASIC SCIENCE COURSES (BSC)											
S. No.	Course Code	Course Title	Semester	Periods / Week				Credit	Max. Marks		
				L	T	P	Tot		CA	ES	Tot
1	24MAI19	Matrices and Calculus	I	2	1	2	5	4	50	50	100
2	24CHI06	Chemistry for Engineers	I	3	0	2	5	4	50	50	100
3	24MAI29	Probability and Statistics	II	2	1	2	5	4	50	50	100
4	24PHI07	Engineering Physics	II	3	0	2	5	4	50	50	100
5	24MAT37	Discrete Mathematics	III	3	1	0	4	4	40	60	100
6	24MAT46	Linear Algebra and Numerical Methods	IV	3	1	0	4	4	40	60	100
TOTAL				16	4	8	28	24	280	320	600

ENGINEERING SCIENCE COURSES (ESC)											
S. No.	Course Code	Course Title	Semester	Periods / Week				Credit	Max. Marks		
				L	T	P	Tot		CA	ES	Tot
1	24EET06	Basics of Electrical and Electronics Engineering	I	3	0	0	3	3	40	60	100
2	24ITT16	Programming for Problem Solving	I	3	0	0	3	3	40	60	100
3	24ITP16	Programming for Problem Solving Laboratory	I	0	0	2	2	1	60	40	100
4	24AUP16	Engineering Graphics Laboratory	I	1	0	2	3	2	60	40	100
5	24GEP16	Engineering Experience Laboratory	I	0	0	2	2	1	60	40	100
6	24CST26	Python Programming	II	3	0	0	3	3	40	60	100
7	24ECI26	Digital Principles and System Design	II	3	0	2	5	4	40	60	100
8	24CSP29	Python Programming Laboratory	II	0	0	2	2	1	60	40	100
9	24CST36	Data Structures and Algorithms	III	3	0	0	3	3	40	60	100
10	24CSP36	Data structures and Algorithms Laboratory	III	0	0	2	2	1	60	40	100
11	24ECT46	Microprocessors and Microcontrollers	IV	3	0	0	3	3	40	60	100

12	24ECP46	Microprocessors and Microcontrollers laboratory	IV	0	0	2	2	1	60	40	100
TOTAL				19	0	14	33	26	600	600	1200

EMPLOYABILITY ENHANCEMENT COURSES (EEC)											
S. No.	Course Code	Course Title	Semester	Periods / Week				Credit	Max. Marks		
				L	T	P	Tot		CA	ES	Tot
1	24SSP19	Aptitude and Coding Skills-I	I	0	0	2	2	1	100	-	100
2	24SSP29	Aptitude and Coding Skills-II	II	0	0	2	2	1	100	-	100
3	24SSP39	Aptitude and Coding Skills-III	III	0	0	2	2	1	100	-	100
4	24SSP49	Aptitude and Coding Skills-IV	IV	0	0	2	2	1	100	-	100
5	24XXP5n	Internship – I	V	0	0	0	0	1	100	-	100
6	24XXP6n	Mini Project	VI	0	0	4	4	2	60	40	100
7	24XXP7n	Project work Phase - I	VII	0	0	4	4	2	100	-	100
8	24XXP7n	Internship – II	VII	0	0	0	0	1	100	-	100
9	24XXP81	Project Work Phase – II	VIII	0	0	16	16	8	40	60	100
TOTAL				0	0	32	32	18	800	100	900

PROFESSIONAL CORE COURSES (PCC)											
S. No.	Course Code	Course Title	Semester	Periods / Week				Credit	Max. Marks		
				L	T	P	Tot		CA	ES	Tot
1	24ITT21	Design Thinking	II	2	0	0	2	2	40	60	100
2	24CST37	Java Programming	III	3	0	0	3	3	40	60	100
3	24IOT31	Operating systems for IoT	III	3	0	0	3	3	40	60	100
4	24IOT32	IoT Architecture and its Applications	III	3	0	0	3	3	40	60	100
5	24CSP37	Java Programming Laboratory	III	0	0	2	2	1	60	40	100
6	24IOP31	Operating Systems for IoT Lab	III	0	0	2	2	1	60	40	100
7	24XXP3n	Design Studio – I	III	0	0	2	2	1	100	--	100
8	24ITT46	Database Management Systems	IV	3	0	0	3	3	40	60	100
9	24IOT46	Foundation of Data Science	IV	3	0	0	3	3	40	60	100
10	24ITP46	Database Management Systems Laboratory	IV	0	0	2	2	1	60	40	100
11	24XXP4n	Design Studio-II	IV	0	0	2	2	1	100	---	100
12	24CST56	Computer Networks	V	3	0	0	3	3	40	60	100
13	24CDT06	Principles of Compiler Design	V	3	1	0	4	4	40	60	100
14	24IOT56	Artificial Intelligence	V	3	0	0	3	3	40	60	100
15	24CSP56	Networks Laboratory	V	0	0	2	2	1	60	40	100
16	24IOP51	Artificial Intelligence Laboratory	V	0	0	2	2	1	60	40	100
17	24IOT61	Essentials of Web Programming	VI	3	0	0	3	3	40	60	100
18	24IOT62	Privacy and Security in IoT	VI	3	0	0	3	3	40	60	100
19	24IOT67	IoT and Cloud Computing	VI	3	0	0	3	3	40	60	100
20	24IOP66	IoT and Cloud Computing Laboratory	VI	0	0	2	2	1	60	40	100
21	24IOT71	Programming with IoT Computing Boards	VII	3	1	0	4	4	40	60	100

22	24IOP71	Programming with IoT Computing Boards Laboratory	VII	0	0	2	2	1	50	50	100
TOTAL				42	2	20	64	53	1040	1160	2200

PROFESSIONAL ELECTIVE COURSES (PEC) : VERTICALS					
VERTICAL-1	VERTICAL-2	VERTICAL-3	VERTICAL-4	VERTICAL-5	VERTICAL-6
DATA SCIENCE (IOT)	FULL STACK DEVELOPMENT (CSD)	EMERGING TECHNOLOGIES	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	CYBER SECURITY AND DATA PRIVACY	INTERNET OF THINGS
Data Warehousing and Data Mining	DevOps	Cloud Computing	Neural Networks and Deep Learning	Ethical Hacking	Adhoc and Wireless Sensor Networks
Distributed Computing	Mobile Computing	Augmented Reality/Virtual Reality	Knowledge Engineering	Information Security and Access Control	Python Programming for IoT
Big Data Analytics	R Programming	Computer Graphics for Virtual Reality	Computer Vision	Steganography and Digital Watermarking	Open Source Programming for IoT
Business Intelligence	Software Testing and Automation	Introduction to Robotics	Game Theory	Crypto-Currency and Block chain Technologies	Introduction to Industry 4.0
Data Modelling	UI and UX Design	Mobile User Interface Development	AI in Health Care Analytics	Digital and Mobile Forensics	Industrial and Medical IoT
Exploratory Data Analysis	Android Application Development	Programming Mobile Devices	Text and Speech Analysis	Security and Privacy in Cloud	IoT and Multimedia Technology
Quantum Computing	Digital Image Processing Techniques	Modern Web Application Development	Machine Learning for Bioinformatics	Firewalls and Intrusion Detection System	Design of Smart Cities
Scientific and Engineering Data Visualization	Software Testing	Drone Technology	Genetic Algorithms	Secure Software Engineering	Applications of IoT in Robotics

S. No.	Course Code	Course Title	Category	Periods / Week				Credit	Max. Marks		
				L	T	P	Tot		CA	ES	Tot
VERTICAL 1: DATA SCIENCE											
1		Data Warehousing and Data Mining	PEC	3	0	0	3	3	40	60	100
2		Distributed Computing	PEC	3	0	0	3	3	40	60	100
3		Big Data Analytics	PEC	3	0	0	3	3	40	60	100
4		Business Intelligence	PEC	3	0	0	3	3	40	60	100
5		Data Modelling	PEC	3	0	0	3	3	40	60	100
6		Exploratory Data Analysis	PEC	3	0	0	3	3	40	60	100
7		Quantum Computing	PEC	3	0	0	3	3	40	60	100
8		Scientific and Engineering Data Visualization	PEC	3	0	0	3	3	40	60	100
VERTICAL 2: FULL STACK DEVELOPMENT											
1		DevOps	PEC	3	0	0	3	3	40	60	100
2		Mobile Computing	PEC	3	0	0	3	3	40	60	100
3		R Programming	PEC	3	0	0	3	3	40	60	100
4		Software Testing and Automation	PEC	3	0	0	3	3	40	60	100
5		UI and UX Design	PEC	3	0	0	3	3	40	60	100
6		Android Application Development	PEC	3	0	0	3	3	40	60	100
7		Digital Image Processing Techniques	PEC	3	0	0	3	3	40	60	100
8		Software Testing	PEC	3	0	0	3	3	40	60	100
VERTICAL 3: EMERGING TECHNOLOGIES											
1		Cloud Computing	PEC	3	0	0	3	3	40	60	100
2		Augmented Reality /Virtual Reality	PEC	3	0	0	3	3	40	60	100
3		Computer Graphics for Virtual Reality	PEC	3	0	0	3	3	40	60	100
4		Introduction to Robotics	PEC	3	0	0	3	3	40	60	100
5		Mobile User Interface Development	PEC	3	0	0	3	3	40	60	100
6		Programming Mobile Devices	PEC	3	0	0	3	3	40	60	100
7		Modern Web Application Development	PEC	3	0	0	3	3	40	60	100
8		Drone Technology	PEC	3	0	0	3	3	40	60	100
VERTICAL 4: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING											
1		Neural Networks and Deep Learning	PEC	3	0	0	3	3	40	60	100
2		Knowledge Engineering	PEC	3	0	0	3	3	40	60	100
3		Computer Vision	PEC	3	0	0	3	3	40	60	100

4		Game Theory	PEC	3	0	0	3	3	40	60	100
5		AI in Health Care Analytics	PEC	3	0	0	3	3	40	60	100
6		Text and Speech Analysis	PEC	3	0	0	3	3	40	60	100
7		Machine Learning for Bioinformatics	PEC	3	0	0	3	3	40	60	100
8		Genetic Algorithms	PEC	3	0	0	3	3	40	60	100
VERTICAL 5: CYBER SECURITY AND DATA PRIVACY											
1		Ethical Hacking	PEC	3	0	0	3	3	40	60	100
2		Information Security and Access Control	PEC	3	0	0	3	3	40	60	100
3		Steganography and Digital Watermarking	PEC	3	0	0	3	3	40	60	100
4		Crypto-Currency and Blockchain Technologies	PEC	3	0	0	3	3	40	60	100
5		Digital and Mobile Forensics	PEC	3	0	0	3	3	40	60	100
6		Security and Privacy in Cloud	PEC	3	0	0	3	3	40	60	100
7		Firewalls and Intrusion Detection System	PEC	3	0	0	3	3	40	60	100
8		Secure Software Engineering	PEC	3	0	0	3	3	40	60	100
VERTICAL 6: INTERNET OF THINGS											
S. No.	Course Code	Course Title	Category	Periods / Week				Credit	Max. Marks		
				L	T	P	Tot		CA	ES	Tot
1		Adhoc and Wireless Sensor Networks	PEC	3	0	0	3	3	40	60	100
2		Python Programming for IoT	PEC	3	0	0	3	3	40	60	100
3		Open Source Programming for IoT	PEC	3	0	0	3	3	40	60	100
4		Introduction to Industry 4.0	PEC	3	0	0	3	3	40	60	100
5		Industrial and Medical IoT	PEC	3	0	0	3	3	40	60	100
6		IoT and Multimedia Technology	PEC	3	0	0	3	3	40	60	100
7		Design of Smart Cities	PEC	3	0	0	3	3	40	60	100
8		Applications of IoT in Robotics	PEC	3	0	0	3	3	40	60	100
MANAGEMENT ELECTIVES											
1		Total Quality Management	HSMC	3	0	0	3	3	40	60	100
2		Principles of Management	HSMC	3	0	0	3	3	40	60	100
3		Engineering Economics and financial accounting	HSMC	3	0	0	3	3	40	60	100
4		Human Resource Management	HSMC	3	0	0	3	3	40	60	100
5		Industrial Management	HSMC	3	0	0	3	3	40	60	100

S. No.	Course Code	Course Title	Category	Periods / Week				Credit	Max. Marks		
				L	T	P	Tot		CA	ES	Tot
MANDATORY COURSE – I											
1		Indian Constitution	MC	2	0	0	2	0	100	-	100
2		Essence of Indian Traditional Knowledge	MC	2	0	0	2	0	100	-	100
3		Indian Constitution	MC	2	0	0	2	0	100	-	100
4		Introduction to Gender Studies	MC	2	0	0	2	0	100	-	100
5		Introduction to Women and Gender Studies	MC	2	0	0	2	0	100	-	100
6		Elements of Literature	MC	2	0	0	2	0	100	-	100
MANDATORY COURSE - II											
1		Life Science for Engineers	MC	2	0	0	2	0	100	-	100
2		Disaster Management	MC	2	0	0	2	0	100	-	100
3		Industrial Safety	MC	2	0	0	2	0	100	-	100
4		Well-being with traditional practices(yoga, Ayurveda and siddha	MC	2	0	0	2	0	100	-	100
OPEN ELECTIVE OFFERED FOR OTHERS DEPARTMENT											
1		Object oriented Programming Using Java	OEC	3	0	0	3	3	40	60	100
2		Data Structures and Algorithms	OEC	3	0	0	3	3	40	60	100
3		Internet of Thing and its Applications	OEC	3	0	0	3	3	40	60	100
4		Database Management Systems	OEC	3	0	0	3	3	40	60	100
5		Sensors and Actuator Devices	OEC	3	0	0	3	3	40	60	100
6		Web Technology	OEC	3	0	0	3	3	40	60	100
7		Mobile Application Development	OEC	3	0	0	3	3	40	60	100

Summary**Name of the Programme: B.E Computer science and Engineering (IoT)**

CATEGORY	I	II	III	IV	V	VI	VII	VIII	TOTAL CREDITS	%
HSMC	4	2		3	-	-	6	-	15	9.1
BSC	8	8	4	4	-	-	-	-	24	14.5
ESC	10	9	8	-	-	-	-	-	27	16.4
PCC	-	3	11	15	11	10	4	-	54	32.7
PEC	-	-	-	-	6	6	6	-	18	10.9
OEC	-	-	-	-	3	3	3	-	9	5.5
EEC	-	-	1	2	1	4	2	8	18	10.9
MC	✓	-	✓	-	✓	✓	-	-	-	-
Total	22	22	24	24	21	23	21	8	165	100