Sri Eshwar College of Engineering

Autonomous Institution

BE CSE (AIML) Curriculum - Regulation 2023

SEMESTER I

G)			Cate-	Per	riods	s / W	eek	Total	Cre-
Sl. No.	Course Code	Course Name	gory	L	Т	P	J	Contact Periods	dits
		Theory Co	urses			Tier			
-	_	Induction Program	-	-	-	- 1	-	-	-
1	U23MA201	Calculus for Engineers	BS	3	1	0	0	4	4
2	U23CS301	Problem solving using C	ES	3	0	0	0	3	3
		Theory cum Pract	ical Cour	rses					
3	U23HS181	Technical English	HS	2	0	2	0	4	3
4	U23CS381	Application Design and Development	ES	2	0	2	0	4	3
5	U23EC381	Electronics and Microprocessors	ES	3	0	2	0	5	4
		Practical Co	ourses						
6	U23GE351	Engineering Practices Laboratory	ES	0	0	2	0	2	1
7	U23CS351	Problem-solving using C Laboratory	ES	0	0	4	0	4	2
		Professional Develop	oment Co	urse	S				
8	U23EM751	Soft Skills	EM	0	0	2	0	2	1
		Mandatory (Courses						
9	U23MC901	தமிழர்மரபு/ Heritage of Tamils	HSMC	1	0	0	0	1	1
		Total		14	1	14	0	29	22

SEMESTER II

GI.			Cate-	Pe	riod	s/W	eek	Total	Cre-
SI. No.	Course Code	Course Name	gory	L	Т	P	J	Contact Periods	dits
		Theory Co	urses						
1	U23MA203	Linear Algebra	BS	3	1	0	0	4	4
2	U23CS401	Data Structures	PC	3	0	0	0	3	3
3	U23PH201	Computational Physics	BS	3	0	0	0	3	3
4	U23CS402	Object Oriented Programming using C++	PC	3	0	0	0	3	3
5	U23NCC01	NCC Credit Course Level 1#	-	2	0	0	0	2	2#
		Theory cum Pract	ical Cours	ses					
6	U23HS1XX	Language Elective	HS	2	0	2	0	4	3
		Theory cum Practical cu	m Project	Cou	rses				
7	U23AD491	Python for AI	ES	2	0	2	2	6	4
		Practical Co	ourses						
8	U23CS451	Data Structures Laboratory	PC	0	0	4	0	4	2
9	U23CS452	Object Oriented Programming using C++ Laboratory	PC	0	0	2	0	2	1
	* J. A. S.	Professional Develop	ment Cou	irses					
10	U23EM752	Logical Thinking	EM	0	0	2	0	2	1
		Mandatory C	Courses		CA				

Chalman - Board of Studies

Sl. No.	Course Code	Course Name	Cate-	Periods / Week				Total	Cre-
			gory	L	Т	P	J	Contact Periods	dits
11	U23MC902	தமிழரும் தொழில்நுட்பமும்/ Tamils and Technology	HSMC	1	0	0	0	1	1
		Total		19	01	12	2	34	25

#-Offered only for NCC students

SEMESTER III

G.	a		Cate-	Pe	eriod	ls / W	eek	Total	Cre- dits
Sl. No.	Course Code	Course Name	gory	L	Т	P	J	Contact Periods	
		Theory Cou	rses						
1	U23MA204	Discrete Mathematics	BS	3	1	0	0	4	4
2	U23CS403	Design and Analysis of Algorithms	PC	3	0	0	0	3	3
3	U23CS404	Database Management Systems	PC	3	0	0	0	3	3
	L	Theory cum Practical cur	n Proje	ct Co	urse	es			
4	U23CS491	Java Programming	PC	2	0	2	2	6	4
		Theory cum Proje	ect Cou	rse					
5	U23AD493	Artificial Intelligence	PC	3	0	0	2	5	4
		Practical Co	urses	911	(40)				
6	U23CS453	Design and Analysis of Algorithms Laboratory	PC	0	0	4	0	4	2
7	U23CS454	Database Management Systems Laboratory	PC	0	0	2	0	2	1
		Professional Develop	ment C	ourse	es				
8	U23EM753	Advanced Logical Thinking	EM	0	0	2	0	2	1
		Mandatory C	ourses	1					
9	U23MC903	Environmental Science	MC	2	0	0	0	1	NC
		Total		15	1	10	4	30	22

SEMESTER IV

			Cate-	Pe	riod	s/W	'eek	Total	Cre-
Sl. No.	Course Code	Course Name	gory	L	Т	P	J	Contact Periods	dits
		Theory Cours	es						
1	U23MA209	Probability and Statistics	BS	3	1	0	0	4	4
2	U23NCC02	NCC Credit Course Level 2#	MC	3	0	0	0	3	NC
		Theory cum Practica	l Cours	es					
3	U23EC384	Computer Networks	ES	2	0	2	0	5	3
4	Digital Principles and Computer		ES	2	0	2	0	5	3
		Theory cum Practical Cum	Project	Cou	rses				
5	U23AM491	Machine Learning	PC	2	0	2	2	6	4
6	U23AD492	Data Science	PC	2	0	2	2	6	4
		Mandatory Cou	irses						
7	U23MC904	Universal Human Values	MC	1	0	0	0	1	NC
-	salpritti in kun	Total		15	1	8	4	.30	18

Chairman – Board of Studies

Chairman - Board of Studies
Department of CSE - Al & ML Page | 6

Sri Eshwar College of Engineering (Autonomous) Kinathukadavu, Colmbatore – 641 202

SEMESTER V

Sl.	Course		Cate-	P	eriod	ds / V	Veek	Total	Cre-
No.	Code	Course Name	gory	L	T P		J	Contact Periods	dits
		Theory Cou	rses						
1	U23CB401	Operating Systems	PC	3	0	0	0	3	3
2	U23XXXX	Professional Elective I	PE	3	0	0	0	3	3
		Theory cum Praction	cal Cou	rses				,	
3	U23AD482	Data Visualization & Exploration	PC	2	0	2	0	4	3
4	U23EC383	Embedded Systems and IoT	PC	3	0	2	0	5	4
		Theory cum Practical wit	h Proje	ect C	ours	e			
5	U23CS492	Full Stack Development	PC	2	0	2	2	6	4
6	U23AM492	Deep Learning for Computer Vision	PC	2	0	2	2	6	4
		Practical Co	urses	10					
7	U23CB451	Operating Systems Laboratory	PC	0	0	2	0	2	1
		Professional Develop	ment C	ours	e				
8	U23IAMXX	Industry Oriented Course	PC	0	0	2	0	2	1
		Total		15	0	12	4	31	23

SEMESTER VI

SI.	Course		Cate-	Pe	eriod	ls / V	Veek	Total	Cre-
No.	Code	Course Name	gory	L	Т	P	J	Contact Periods	dits
		Theory Cou	rses		-				
1	U23XXXX	Professional Elective II	PE	3	0	0	0	3	3
2	U23XXXX	Professional Elective III	PE	3	0	0	0	3	3
3	U23XXXX	Open Elective I*	OE	3	0	0	0	3	3
4	U23NCC03	NCC Credit Course Level 3#	lit Course Level 3# 3 0 0 0					3	NC
		Theory Cum Practi	cal Cou	rses					
5	U23IT481	Software Engineering	PC	2	0	2	0	4	3
		Theory cum Practical with	h Proje	et Co	urse	S			
6	U23AM493	Generative AI	PC	2	0	2	2	6	4
7	U23AM494	Natural Language Processing	PC	2	0	2	2	6	4
		Project Wo	rk						
8	U23AM604	Innovative / Multi-Disciplinary Project	PW	2	0	0	2	4	3
		Total		20	0	6	6	29	23

^{*}LTPC either 3 0 0 3 or 2 0 2 3, #-Offered only for NCC students

SEMESTER VII

SI.	Course		Cate-	P	erioc	ls / V	Total	Cre-	
No.	Code	Course Name	gory	L	Т	P	J	Contact Periods	dits
		Theory (Courses						
1_	U23CB103	Principles of Management	HS	3	0	0	0	3	3
2	U23XXXX	Professional Elective IV	PE	3	0	0	0	3	3_(

SI.	Course		Cate-	P	eriod	ls / V	Total	Cre-	
No.	Code	Course Name	gory	L	Т	P	J	Contact Periods	dits
3	U23XXXX	Open Elective II*	OE	3	0	0	0	3	3
4	U23CB104	Project Management and Finance	MC	1	0	0	0	1	1
		Theory cum Pract	ical Cou	ırse					
5	U23IT483	Blockchain Technologies	PC	3	0	2	0	5	4
		Project We	ork						
6	U23AM607	Project Work – Phase I	PW	0	0	0	12	12	6
		Total		10	0	0	12	22	20

SEMESTER VIII

Sl.	Course Code		Cate-	P	erioc	ls / V	Total	Cre-	
No.		Course Name	gory	L	Т	P	J	Contact Periods	dits
		Project Wo	ork						
1	U23AM605	Industry Internship/Project Work -Phase II	PW	0	0	0	20	20	10
		Total		0	0	0	20	20	10

Total Number of Credits: 163

CREDIT SUMMARY

Sl.	Course			Cre	edits pe	r Seme	ster				Credit
No.	Category	I	II	III	IV	V	VI	VII	VIII	Credits	%
1	HS	3	3	-	_	-	-	3	2	9	5.5
2	BS	4	7	4	4	-	-		-	19	11.6
3	ES	13	4	25	6	-	-	2	-	23	14.0
4	PC	-	9	18	7	20	11	4		69	42.1
5	PE	-	075	-		3	6	3	Ē	12	7.3
6	OE	-		-	-	-	3	3	(4	6	3.7
7	PW	-	-	-	-	-	3	6	10	19	11.6
8	EM	1	1	1		-	-	-		3	1.8
9	NC	_	V	1	1	:=:		-	: e	0	0.0
10	MC			1	1	-	-	1	- 1/2	1	0.6
11	HSMC	1	1	-	-	700	-	-	-	2	1.2
	Total	22	25	23	17	23	23	20	10	163	100

Chairman – Board of Studies

Department of CSE – Al & ML

Sri Eshwar College of Engineering (Autonomous)

Kinathukadavu, Colmbatore – 641 202