## FACULTY OF ENGINEERING Scheme of Instructions for

Four Year Degree Programme of Bachelor of Engineering (B.E)

Computer Science and Engineering Artificial Intelligence and Machine Learning

(With effect from the academic year 2023-24) (Approved by College Academic Council on -- ---)

Empower Women; Impact the World



Stanley College of Engineering and Technology for Women (Autonomous) Abids, Hyderabad – 500 001, Telangana. (Accredited by NAAC with "A" Grade) (Affiliated to Osmania University)

#### Artificial Intelligence and Machine Learning B. E. 4 Year (8 semesters) Regular Programme in Course Structure

(Applicable for the Batch admitted from the Academic Year 2023-24)

				Semester I	ter I				,	
			So	heme	Scheme of Instruction	uction	Sc	heme of F	Scheme of Examination	Cradita
S. NO C	Code	Course Title	T	3	3	CONTA			DURATION	Create
Theory Courses	Se		1	۲	2/1	HOURS	CIE	SEE	IN HOURS	Credits
1 SBS101MT	01MT	Mathematics-I	4			_	40	3	)	
						1	40	00	C	4
		Foundation of Electrical								
+	JJEE	Electronics Engineering	4			4	40	60	JJ.	_
3 SBS902PH	)2PH	Applied Physics	4			Δ	40	60	ی ر	. 4
		Programming for Problem				1	10	00	u	4
4 SES101AM		Solving	ω			w	40	60	J	o
Practical/Laboratory Courses	atory Co	urses						00	C	C
5 SHS911EG	LIEG	English Lab			2	)	40	60	J	
		Foundation of Electrical				1	10	00	U	_
6 SES113EE	3EE	Electronics Engineering Lab			2	2	40	60	J	4
7 SBS912PH	2PH	Applied Physics Lab			2	ا د	40	60	ی د	-
		Programming for Problem			1	1	5	00	C	1
8 SES111AM		Solving Lab			4	Α	40	60	J	)
9 SES914ME		Engineering Workshop			4 .	4	40 4	60	J (4	2
10 SHS916AM		Design Thinking			) 1	1	040	00	u	2
-	-	Design Hillikillg			2	2	40	60	ω	1
			15		16	31	400	600	30	23
1. Prof K Svamala		- Company			0	C. Cerestons	by the state of th		3	0
(University nominee)	minee)		(HO		3. C	3. Chaitanya C		>	4. Dr. Srlnivasu B	B I

(University nominee)

(subject Expert from UOH)

(Expert from Industry)

(chairperson - BOS)

## B. E. 4 Year (8 semesters) Regular Programme in Artificial Intelligence and Machine Learning Course Structure

(Applicable for the Batch admitted from the Academic Year 2023-24)

				Semester II	ter II					
			S	cheme	Scheme of Instruction	uction	Sc	heme of E	Scheme of Examination	Credits
	)					CONTA			DURATION	
S. NO	Code	Course Title	L	H	D/P	HOURS	CIE	SEE	IN HOURS	Credits
Theory	Theory Courses									
1	SBS202 MT	Mathematics-II	4			4	40	60	ω	4
2	SES201AM	Data Structure	4			4	40	60	ω	4
3	SBS904CH	Applied chemistry	4			4	40	60	ω	4
4	SHS901EG	English	2	,		2	40	60	ω	2
5	SHS902EG	Universal Human Values	2			2	40	60	3	2
Practical	Practical/Laboratory Courses	urses								
6	SES211AM	Data Structures Lab			2	2	40	60	З	n l
7	SBS914CH	Chemistry Lab			2	2	40	60	3	1
8	SES915ME	Engineering Graphics			4	4	40	60	ω	2
9	SPW211AM	IDEA Lab			2	2	40	60	3	1
			16		10	26	360	540	27	21

1. Prof K Syamala (University nominee)

2. Dr N Naveen (subject Expert from UOH)

3. Chaitanya C (Expert from Industry)

## B. E. 4 Year (8 semesters) Regular Programme in Artificial Intelligence and Machine Learning Course Structure

(Applicable for the Batch admitted from the Academic Year 2023-24)

			Semester III	ester	I	8				
			Sch	ете	of Inst	Scheme of Instruction	Scl	neme of E	heme of Examination	Credits
S. NO	Code	Course Title	Т	T	D/P	CONTA CT HOURS	CIE	SEE	DURATION IN HOURS	Credits
Theory	Theory Courses									
		Discrete Mathematics & Graph								
1	SPC301AM	Theory	ω			ω	40	60	ω	ω
2	SPC302AM	OOPS using Java	ω			ω	40	60	ω	ω
ω	SPC303AM	Database Management Systems	w			ω	40	60	ω	ω
4	SP304AM	Data Visualization	ω	.1		3	40	60	ω	ω
		Probability and Statistic for Machine								
5	SBS301MT	Learning	ω	1		4	40	60	ω	4
6	SAU903CH	Environmental Science	2			2	40	60	ω	0
Practical	Practical/Laboratory Courses	ourses								
7	SPC311AM	SPC311AM OOPS using Java Lab			3	З	40	60	ω	1.5
8	SPC312AM	Database Management Systems Lab			3	3	40	60	З	1.5
9	SPC313AM	Data Visualization Lab			2	2	40	60	3	ш
			17	↦	$\infty$	26	360	540	27	20

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#### B. E. 4 Year (8 semesters) Regular Programme in Artificial Intelligence and Machine Learning Course Structure

(Applicable for the Batch admitted from the Academic Year 2023-24)

SPC411AM SPC413AM SHS912EG	Practical/Laboratory Courses  7 SPC411AM OS & CD  8 SPC413AM Data Anal- Advanced  9 SHS912EG Skills lab	Practical/Laboratory Courses 7 SPC411AM OS & CD 8 SPC413AM Data Anal	Practical/Laboratory Courses  7 SPC411AM OS & CD	Practical/Laboratory Courses	O DIATOSOTITO THORBIT CO	6 SMC901HS Indian Co.	-	4 SPC404AM Compiler Design	Automata	3 SPC403AM Artificial	2 SPC402AM Operating System	1 SPC401AM Computer	Theory Courses	S. NO Code			
1		Advanced Communication Skills lab	ytics Lab	Lab		Indian Constitution	ytics	Design	Automata Theory and	Artificial Intelligence	System	Computer System Design		Course Title			
	(to t					2	ω	ω		ω	ω	3		Г	S		
	e evalı out ir									=				Н	cheme	Semester IV	
	(to be evaluated in 5 <sup>th</sup>	2	ω	3										D/P	Scheme of Instruction	ter IV	
		2	3	3		2	З	ω		ω	ω	ω		CT HOURS	uction		
CHICORC	er. To bo semester	40	40	40		40	40	40	-	40	40	40		CIE	Sc		Trut -
	semester. To be carried fter 4th semester)	60	60	60		60	60	60	000	60	60	60		SEE	heme of E		(17 070
		ω	ω	3		ω	ω	ω	C	ى ىد	ا بد	w	2	DURATION IN HOURS	Scheme of Examination		
		₩	1.5	1.5		0	ω	w	U	J (	c	u		Credits	Credits		

1. Prof K Syamala (University nominee)

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#### B. E. 4 Year (8 semesters) Regular Programme in Artificial Intelligence and Machine Learning Course Structure

(Applicable for the Batch admitted from the Academic Year 2023-24)

		Semes	50	Semester V	ter V					
			So	heme	Scheme of Instruction	uction	Sch	neme of E	eme of Examination	Credits
						CONTA			DURATION	Carlit
S.NO	Code	Course Title	L	Н	D/P	HOURS	CIE	SEE	IN HOURS	Credits
Theory Courses	Courses									
1	SPC501IAM	Machine Learning	ω			ω	40	60	ω	ω
		Design and Analysis of	)			J	à	60	υ.	J.
2	SPC502AM	Algorithms	ω			ω	40	60	u	C
3	SPC503AM	Computer Networks	ω			ω	40	60	ω	CU
Δ	SPC504AM	Software Engineering	ω	r.		ω	40	60	ω	ω
л .	SPE19XAM	Professional Elective -1	4			4	40	60	3	4
Practica	Practical/Laboratory Courses	urses								
6	SPC511AM	Machine Learning Lab			2	2	40	60	ω	1
		CN & Software Engineering			)	J.	à	60	υ.	
7	SPC 512AM	Lab			2	7	40	00		F
,		Web and Internet Technologies		_	J	ىد	40	60	ω	2
Ö	INIMCICARC	Lau	;	,						
0	SDW/S11AM	Internship -1 (to be evaluated in 5 <sup>th</sup> semester)	5 <sup>m</sup>	after 4	t <sup>th</sup> seme	ster)	50		ω	2
			16	Ь	6	23	370	480	27	22

1. Prof K Syamala (University nominee)

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#### B. E. 4 Year (8 semesters) Regular Programme in Artificial Intelligence and Machine Learning Course Structure

(Applicable for the Batch admitted from the Academic Year 2023-24)

	10	9 0		-	7 0	S 9	Practical/L	5 8		-	-	2 S	1 S	Theory Courses	S. NO			
		SPWOLIAM	SPINIC11 AM	DC613 AM	SPC612AM	6 SPC611AM	Practical/Laboratory Courses	SPE29XAM	SPC603AM	I COOZUIA	SDCGOOAM	SPC601AM	SHS901BM	ourses	Code			
	Internship - 2	Mini Project	Cloud computing Lab	Clarida video Analytic Lab	Image 8 17: de A - 1 : 1 1	Natural Language Processing Lab	ourses	Professional Elective – 2	Image & Video Analytic	INdituidi Länguage Processing	Notar Companie	Cloud Computing	Managerial Economics and Financial Accounting		Course Title			
17	6 v	3						4	ω	w	U	٥	4		L		Scl	Sen
	uden veek	-							1						T		ieme	1est
10	ts have duratio	4	2	2	2	)									D/P		of Ins	Semester VI
26	6 week duration after VI-Semester SEE	4	2	2	2	6		4	ω	ω	u	) (	ω		CT HOURS	CONTA	Scheme of Instruction	
360	a Interr Semeste	40	40	40	40			40	40	40	40	5	40		CIE		Sch	
540	nship-2 of r SEE	60	60	60	60			60	60	60	60	00	60		SEE		heme of F	
27		3	ω	ω	ω		C	u	ω	ы	ω	C	υ		DURATION IN HOURS	Yanning Toll	eme of Examination	
22		2	1	1	1		t	۱ کـ	ω	ω	ω	4			Credits	Crearis	Cradita	

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(Expert from Industry)

## B. E. 4 Year (8 semesters) Regular Programme in Artificial Intelligence and Machine Learning Course Structure

(Applicable for the Batch admitted from the Academic Year 2023-24)

		Semester VII	Sem	Semester VII	VII			)		
			Sch	Scheme of Instruction	f Insti	Ju,	tion	Sc	Sc	
2					D/	C	CONTA	ONTA	ONTA	NTA
S.NO	Code	Course Title	L	H	P	T C	HOURS	IOURS CIE		CIE
Theory	Theory Courses									, Sa
1	SPC701AM	Deep Learning	ω				ω	3 40		40
2	SPC702AM	Optimization Techniques	ω				ω	3 40		40
ω	SPE39XAM	Professional Elective – 3	ω				ω	3 40		40
4	SPE49XAM	Professional Elective – 4	4	1			4	4 40		40
5	SOE19XXX	Open Elective-1	ω				ω	3 40		40
Practica	Practical/Laboratory Courses	urses								
6	SPC711AM	Deep Learning Lab			2		2	2 40		40
7	SPE712 AM	PE-3 Lab			2		2	2 40		40
8	SPW711AM	Project work -1			6		6	6 40		
9	SPW712AM	Internship -2 (to be evaluated in 7th semester. To be carried out in summer after 6th semester)	n 7th sem er)	ester.	To be of	Carr	ied	ied 50		
			16		10		26	26 370		370

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#### **Artificial Intelligence and Machine Learning** B. E. 4 Year (8 semesters) Regular Programme in Course Structure

(Applicable for the Batch admitted from the Academic Year 2023-24)

S.NO   Code   Course Title   L   T   D/P   CONTAC   THOURS   CTE   SEE   DURATION IN   Credits					Semester VIII	er VIII					
Course Title         L         T         D/P         THOURS         CIE         SEE         DURATION IN HOURS         Credit           pen Elective-2         3         3         40         60         3         Credit           roject work -2         20         20         40         120         3         60         3           3         20         23         80         180         6         6         6					Schem	e of Instr	uction	Sc	heme of E	camination	Credits
pen Elective-2     3     40     60     3       oject work -2     20     20     40     120     3       3     20     23     80     180     6	SNO	Code	Course Title	Г	H	D/P	CONTAC T HOURS	CIE	SEE	DURATION IN HOURS	Credits
pen Elective-2         3         40         60         3           oject work -2         20         20         40         120         3           3         20         23         80         180         6	Theory C	Courses									
oject work -2 20 20 40 120 3 3 20 23 80 180 6	1	SOE29XXX	Open Elective-2	ω			3	40	60	3	3
3     20     20     40     120     3       3     20     23     80     180     6	Practical/	Laboratory Cou	rses								
20 23 80 180 6	8	SPW811AM	Project work -2			20	20	40	120	3	10
				3		20	23	80	180	6	13
PC: Professional Course PE: Professional Elective MC: Mandatory Course	BC. Profes	SPW811AM	Project work -2	ω		20	20	40	120 180	6	10

**PW:** Project Work L: Lecture

T: Tutorial

P: Practical

D: Drawing

AU: Audit Course CIE: Continuous Internal Evaluation, **SEE:** Semester End Examination

Each contact hour is a Clock Hour

experiment. The duration of the practical class is two clock hours, however it can be extended wherever necessary, to enable the student to complete the

(University nominee) 1. Prof K Syamala

(subject Expert from UOH) 2. Dr N Naveen

(Expert from Industry) 3. Chaitanya C C.CL. tons

4. Br Srinivasu B (chairperson - BOS) Similar

### Micro/Minor Specialization

	TAT	TATICTO, TATITION O DECIGITZATION	шидии	
Thread Name	PE-1	PE-2	PE-3	PE-4
Data Science	Big Data Analytics	Business Analytics	Recommendation System	Text & speech Analysis
Emerging Technologies	Computer graphics & Game Theory	Robotic Process Automation	Augmented Reality & Virtual Reality	3D-Printing & Designing
Advanced AI and ML	Computer graphics & Game Theory	Knowledge Engineering	Reinforcement Learning	Cognitive Computing/Conversational AI
Advanced Web Development	Agile software Fundamentals	Web Application-2 (React, Node.js, Jquery)	Web Frame Work Tools (django , express js, Ruby	Agile Methodology with Frame work(AWS)
Advanced AI and ML	Computer graphics & Game Theory	Knowledge Engineering	Reinforcement Learning	Cognitive Computing/Conversational AI
Cyber Security and Data Privacy	Information Security	Cyber Security	Digital & Mobile forensic	Crypto Currency & Block chain Technology

	Profession	Professional Elective-1
S. No	Subject Code	Subject Name
1.	SPE1901AM	Agile software Fundamentals
2.	SPE1902AM	Big Data Analytics
ω.	SPE1903AM	Computer graphics & Game Theory
4.	SPE1904AM	Mobile Application Development
5.	SPE1905AM	Information Security

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Cyber Security	SPE2905AM	5.
Web Application( (React, Node.js, Jquery)	SPE2904AM	4.
Knowledge Engineering	SPE2903AM	ω
Robotic Process Automation	SPE2902AM	2.
Business Analytics	SPE2901AM	1:
Subject Name	Subject Code	S. No
Professional Elective-2	Profe	

AM Digital & Mobile forensic	SPE3905AM	5.
(django, express js, Ruby		
AM Web Frame Work Tools	SPE3904AM	4.
AM Reinforcement Learning	SPE3903AM	ω
Augmented Reality & Virtual Reality	SPE3902AM	2.
AM Recommendation System	SPE3901AM	1.
Code Subject Name	Subject Code	S. No
Professional Elective-3		

002AM 3D-Printing & Designing	SPE4902AM
001AM Text & speech Analysis	SPE4901AN
ct Code Subject Name	S. No Subject Code
FIOTESSIONAL ETECHAE-4	

2. Or N Naveen (Subject Expert from UOH)

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(Expert from Industry)

Crypto Currency & Block chain Technology	SPE4905AM	ù
Agile Methodology with Frame work(AWS)	SPE4904AM	4.
Cognitive Computing/Conversational AI	SPE4903AM	3.

# Comparison between AICTE Model curriculum CSE-AI&ML and Stanley CSE-AI&ML Proposed

S. No	Category	Credits breakup for	
		AICTE -AI&ML	Stanley-AI& ML (present)
÷	Humanities and Social Sciences including Management courses	10*	11
2.	Basic Science courses	16*	22
ω	Engineering Science courses	8*	19
4.	Professional core courses(Branch Specific)	71*	69
5	Professional Elective courses (Branch Specific)	16*	16
6.	Open Elective Courses (from Humanities, Technical Emerging or other Subjects)	6*	6
7.	Project work, seminar and internship in industry or elsewhere	38*	20
.00	audit courses [Environmental Sciences, Indian Constitution]	(non-credit)	(non-credit)
	Total	165*	163

\*Minor variation is allowed as per need of the respective disciplines.

1. Prof K Syamala
(University nominee) (Subject Expert from UOH)

(Expert from Industry) 3. Chaitanya C

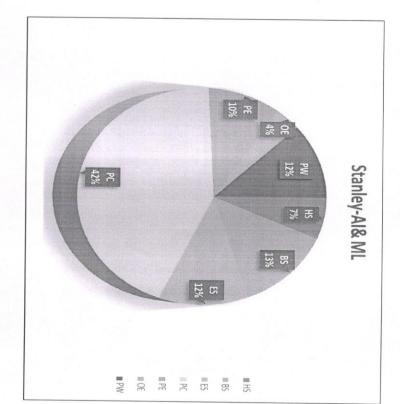
AICTE - AI&MIL

HS
BS
23%
BS
10%
BS

#BS
#BS
#BS
#BS
#BC
#PC
#PC
#PC
#PC
#PW

1. Prof K Syamala (University nominee)

(subject Expert from UOH)



3. Chaitanya C (Expert from Industry)

contary

TOTAL = 11	TOTAL = 10
i,	
Finance & Accounting (4)	
Advanced Communication Skills (1)	
Universal Human Values (2)	HSMC – H-102 Universal Human Values (3)
	HS 401 Theory of Computation Ecosystems(3)
Design Thinking (1)	HS- 102 Design Thinking (1)
English (2+1)	HS101 - Communication Skills (2+1)
Stanley-R23 AI&ML Proposed	AICTE Model Curriculum (CSE)-AI&ML

BS401 Mathematics-III (4)	
BS202 Chemistry (5)	BSC-202 Chemistry-I (3+1)
BS201 Mathematics-II (4)	BSC-201 Mathematics-II (4)
BS102 Mathematics-I (4)	BSC-102 Mathematics-I (4)
BS101 Physics (5)	BSC-101 Physics-I (3+1)
L) Stanley-R23 (CSE-Al&ML) Proposed	AICTE Model Curriculum (CSE-AI&ML) (2022)

(subject Expert from UOH)

3. Chaitanya C (Expert from Industry)

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TOTAL= 19	TOTAL= 8
ESC 201 Data Structures(4+1)	
SES915ME Engineering Workshop(2)	ESC-102 Mathematical Concepts for AI(4)
ES101 Problem Solving and Programming (3+2)	(4) (4)
ESC-102 Engineering Graphics & Design (2)	
Engineering(4+1)	
ESC-103 Foundation of Electrical Electronics	
Stanley-R23 (AI&ML)Proposed	AICTE Model Curriculum (CSE-AI&ML) (2022)
ENGINEERING SCIENCE COURSES [ES]	ENGINEERING SCI

PROFESSIONAL C	PROFESSIONAL CORE COURSES [PCC]
AICTE Model Curriculum (CSE-AI&ML) (2022)	Stanley-R23 (CSE -AI&ML)Proposed
PC-202 Object Oriented Programming(4)	PCC AI- 302 OOPS using Java
	Programming (3+1.5)
PC-203 Data Structure (4)	
PC-204 Discrete Mathematics Structures(4)	PCC AI-301 Discrete Mathematics & Graph
	Theory (3)
	PCC AI 304 Data Visualization(3+1)
PC-205 Modern Computer Architecture(3)	PCC AI- 401 Computer System Design(3)
PC-301 Algorithm Analysis and Design(4)	PCC AI-502 Design Analysis and Algorithms
PC-302 Database Systems(4)	PCC AI-303 Database Management System (3+1.5)
PC-303 Computer Networks(4)	PCC AI-503 Computer Networks (3)
PC-304 Introduction to Machine Learning(4)	PCC-AI -601 Machine Learning(3+1)
PC-305 Artificial Intelligence(4)	PCC AI-501 Artificial Intelligence (3)
PC-401 Theory of Computation(4)	PCC AI-404 Automata Theory and CD(3)
PC-402 Software Engineering(4)	PCC AI-504 Software Engineering (3+1)
	000

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3. Chaitanya C

, (Expert from Industry)

TOTAL=69	TOTAL= 71
PCC IT-601 Cloud Computing (4)	
PCC AI- Web and Internet Technologies Lab(2)	PC 701 Soft Computing(4)
PCC AI-603 Image and Video analytics(4)	PC-502 Advanced Machine Learning(4)
PCC AI-602 Natural Language Processing(4)	PC-503 Natural Language Processing
	Leaning(4)
PCC AI-702 Optimization Techniques(3)	PC-502 Optimization Techniques in Machine
	Data and Visual analytics in AI(4)
PCC AI-403 Data Analytics(3+1.5)	PC-501
PCC AI-402 Operating Systems(3+1.5)	PC-404 Operating System(4)
PCC AI-701 Deep Learning(3+1)	PC-403 Deep Learning(4)

Stanley-RZ3 (CSE-Al&ML)Proposed (2022)   PE001 (4)   PE001 (4)   PE002 (4)   PE003 (4)   PE003 (4)   PE004 (4)
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TOTAL= 06	TOTAL= 06
OEC Open Elective – II (3)	OEC Open Elective – II (3)
OEC Open Elective – I (3)	OEC Open Elective – I (3)
Stanley-R23 (CSE-AI &ML)Proposed	AICTE Model Curriculum (CSE-V) (2022)
OPEN ELECTIVE COURSES[OEC]	OPEN ELECTI

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TOTAL = 20	TOTAL= 38
SPW AM-811 Project-II (10)	
SPW AM-712 Project-I (3)	EEC 701,801 Capstone project I &II(6+10)
SPW AM-711 Summer Internship – 2 (2)	
SPW AM-511 Summer Internship – I (2)	EEC-601 Internship(16)
SPW AM-611 mini Project (2)	EEC 401,501 Minor Project (3+3)
Idea Lab / Field Work(1)	
	(2022)
Stanley-R23 (CS-AI&ML )Proposed	AICTE Model Curriculum (CSE-AI&ML)
PROJECT WORK, SEMINAR AND INTERNSHIP IN INDUSTRY	PROJECT WORK, SEMINAR

2. Dr N Naveen (subject Expert from UOH)

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3. Chaitanya C (Expert from Industry)

(Subject Expert from UOH)

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										2	MC-			-	- 3	3										25)	(OC,	MC
				(4)	MEHA		Lab(1	SKIII	a	Com	Adv.					(2)+	VHU+	(2)	ENG	T(1)	(1)+D	Lab	ENG	iii		-	(11C,	
												M3(4)				LAB(1)	(4),CHE	SE	M2 (4),	(1)	+LAB	PHY(4)	M1 (4),			_	(22C,5S	BS
						1										Lab (2)	Graphics	Lab (1),	DS (4) +	ab(1)	FEEE(4)+L	(2) +	WS LAB	+Lab (2),	PPS (3)	(28C,8S)	ES	
SE(3)+lab(1) + WIT (2)	CN(3) +	DAA(3)+	ML (3+1)+	Lab(1.5)	DVA(3)+	+ Lab (1.5)	OS(3),	AT&CD(3) +	+	CSD(3)+AI(3		(3) + DV(4)	(4.5)+DMGT	(4.5)+DBMS	Java											(56C,14S)	PC	
		(4)	PEI																							,55)	(160	PE
																									1	35)	76)	Q Q
(Done	(2)	Z-1	INTER													Lab(1)	DEA	mork/I	<u></u>	П					(cr)	(15)	+ 10/60	Droin
			-	21							17	2				21			23	2					-	CKED	Cordi	1010
	0 100	3 3	Z TP					IAIC-T	MC 1	5 Th	!	MC-1	H LdD	4	5 Th		4 Lab	5 Th	1				5 Lab	4 lh	crs			4

4. Dr Srinivasu B (chairperson - BOS)

(Expert from Industry)

3. Chaitanya C

(University nominee) 1. Prof K Syamala

(subject Expert from UOH) 2. Dr N Naveen

(Expert from Industry) 3. Chaitanya C 11 22 19 DL(3+1) OPTIMIZA CC(3+1)+NL &VIDE(3+1) P(3+1)+IMG TION(3) 69 PE-III(3) + PE-IV(4) +lab (1) (4) 16 OE1 (3) OE 2 6 INTER
N-2
(2)
+Proje
ct -1
(3) Proj(2) t-2 Mini-Projec Sem4) (10)20 163 24 13 5 Th 3 Lab 5 Th 2 Lab 1 proj 1 proj 1 Th

Tot

SE SE

SE M 7

M 6

(chairperson -, BOS) 4. Dr Srinivasu B