SYLLABUS STRUCTURE

B. Tech. (Artificial Intelligence & Machine Learning)

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SYLLABUS STRUCTURE

B. Tech. (Artificial Intelligence & Machine Learning)

DISTRIBUTION OF SUBJECT GROUPS

- 1 Basic Science Courses (BSC)
- 2 Engineering Science Courses (ESC)
- 3 Humanities & Social Science Including Management Courses (HSSMC)
- 4 Professional Core Courses (PCC)
- 5 Professional Elective Courses (PEC)
- 6 Open Elective Courses (OEC)
- 7 Seminar/Project/Internship/Industrial Training (PROJ)
- 8 Mandatory Courses (MC)

SYLLABUS STRUCTURE

B. Tech. (Artificial Intelligence & Machine Learning)

DISTRIBUTION OF COURSES IN SUBJECT GROUPS

1) BASIC SCIENCE COURSES (BSC)

Sr.	Course	e Corse		Teaching Scheme per week				
No.	Code	Type	Name of Course	L	Т	P	Credits	
1.			Applied Mathematics – I	3	1	0	4	
2.			Applied Physics	3	0	0	3	
3.			Applied Physics Lab	0	0	2	1	
4.			Applied Mathematics - II	3	1	0	4	
5.			Applied Chemistry	3	0	0	3	
6.			Applied Chemistry Lab	0	0	2	1	
7.			Statistics, Probability& Operation Research	3	0	2	4	
			Total Credits					

2) ENGINEERING SCIENCE COURSES (ESC)

Sr. Course Corse		Corse	Name of Course	Teaching Scheme per week				
No.	Code	Type	Name of Course	L	Т	P	Credits	
1.			Computer Programming in C	3	0	0	3	
2.			Engineering Drawing	2	0	0	2	
3.			Engineering Drawing Lab	0	0	4	2	
4.			Computer Programming in C	0	0	2	1	
5.			Workshop Practice I	0	0	2	1	
6.			Object Oriented Programming	3	0	0	3	
7.			Engineering Mechanics	3	0	0	3	
8.			Fundamentals of Electronics and Electrical	3	0	0	3	
9.			Object Oriented Programming lab	ab 0 0 2		1		
10.			Engineering Mechanics Lab.	0 0 2		1		
11.			Fundamentals of electronics and Electrical lab		0	2	1	
12.			Workshop Practice II	0	0	2	1	
13.	_		Discrete Mathematics 4 0 0		4			
14.			The Lab Discrete Mathematics	0	0 0 2 1		1	
		_		Tot	tal Cr	edits	27	

3) Humanities & Social Science Including Management Courses (HSSMC)

Sr.	Course	Corse	Corse Type Name of Course		Teaching Scheme per week			
No.	Code	Type			Т	P	Credits	
1.			Social Innovation		1	2	2	
2.			Professional Communication		0	0	2	
3.			Professional Communication –Lab		0	2	1	
4.			Foreign language (German / Japanese/ Russian) (Noncredit)	1	0	0	0	
5.			Engineering Exploration	0	0	4	2	
6.			Development of Life Skill 1 0		0	2	1	
7.			Human Values & Ethics 3 0 0		0	0		
8.			Community Services 0 0 2		1			
							9	

4) PROFESSIONAL CORE COURSES (PCC)

Sr. Course Corse		Name of Course	Teaching Scher				
No.	Code	Type	Name of Course		T	P	Credits
1.			Introduction to Machine Learning	3	0	0	3
2.			Data Structure			0	3
3.			Advanced Programming with Machine Learning			0	3
4.			Data Structure - Lab	0	0	4	2
5.			Advanced Programming with Machine Learning - Lab	0	0	4	2
6.			Data and Information Management with AI	3	0	0	3
7.			Theory of Computation	3	1	0	4
8.			Operating System		0	2	4
9.			Computer Networks for AI and ML		0	0	3
10.			Application Based Programming using Python	3	0	2	4
11.			Data and Information Management with AI - Lab	Data and Information Management 0		2	1
12.			Computer Networks for AI and ML	r AI and ML 0 0 2 1		1	
13.			Computer Algorithms	3	1	0	4
14.			Computer Vision & Image Processing	3	0	0	3
15.			Ad HOC- Wireless Networks		0	0	3
16.					0	0	3
17.			R Programming for AI and ML 2 0		4	4	
18.			Computer Vision & Image Processing-Lab 0 0		2	1	
19.			AI and Computing Intelligence-Lab	0 0 2 1			
20.	_		Database Engineering	3	0	0	3

21.	Information Security in AI	3	0	0	3	
22.	Programming for Problem Solving	2	0	4	4	
23.	Database Engineering Lab	Database Engineering Lab 0 0 2				
24.	Information Security in AI-Lab	0	0	2	1	
25.	Pattern Recognition in ML	3	0	0	3	
26.	AI in Web Designing	3	0	0	3	
27.	Pattern Recognition in ML-lab	0	0	4	2	
28.	AI in Web Designing-Lab	0	0	4	2	
29.	Deep Learning	3	0	0	3	
30.	Natural Language Processing	3	1	0	4	
31.	Deep Learning Lab	0	0	2	1	
32.	Robotics & Intelligence System-Lab	Robotics & Intelligence System-Lab 0 0 2		1		
33.	Robotics & Intelligence System	Robotics & Intelligence System 3 0 0				
		•	•	·	86	

5) PROFESSIONAL ELECTIVE COURSES (PEC)

Sr.	Course	Corse	Name of Course			ing S r we	cheme ek
No.	Code	Type			T	P	Credits
1			Professional Elective-I	3	1	0	4
2			Professional Elective-II	3	1	0	4
3			Professional Elective-II	3	1	0	4
							12

6) OPEN ELECTIVE COURSES (OEC)

Sr.	Course	Corse	Name of Course			ing S r we	cheme ek
No.	Code	Type			Т	P	Credits
1			Open Elective-I	3	1	0	4
2			Open Elective-II		1	0	4
				Total	Cre	dits	08

7) SEMINAR/PROJECT/INTERNSHIP/INDUSTRIAL TRAINING

Sr. Course	Corse	Name of Course	Teaching Scheme per week				
No.	Code	Type	Name of Course	L	Т	P	Credits
1.			Project-I	0	0	4	1
2.			Project-II	0	0	4	1
3.			Project-III	0	0	0	2
4.			Project-IV	0	0	4	2
5.			Internship	0	0	4	4
6.			Project-V	2	0	0	2

Total Credits 12

8) MANDATORY COURSES

Sr.	Course	Corse		Teaching Scheme per week			
No.	Code	Type	Name of Course		Т	P	Credits
1			Democracy, Election & Good Governance (Non-Credit)	0	0	0	NC
2			*Environmental Studies	2	0	0	NC
				Total	Cre	dits	00

SYLLABUS STRUCTURE

B. Tech. (Artificial Intelligence & Machine Learning)

SUMMARY OF DISTRIBUTION OF COURSES IN ALL SEMESTER

Sr.	Category	No. of Subjects in Each	Suggested Breakup of Credits	Total
No.	,	Category	by AICTE	
1	BASIC SCIENCE COURSES (BSC)	5	25	20
2	ENGINEERING SCIENCE COURSES (ESC)	8	24	27
3	Humanities & Social Science Including Management Courses (HSSMC)	7	12	9
4	PROFESSIONAL CORE COURSES (PCC)	21	48	86
5	PROFESSIONAL ELECTIVE COURSES (PEC)	3	18	12
6	OPEN ELECTIVE COURSES (PEC)	2	18	8
7	SEMINAR/PROJECT/INTERNS HIP/INDUSTRIAL TRAINING	6	15	12
8	MANDATORY COURSES	2	Non-Credit	(Non- Credit)
		54	160	174

SYLLABUS STRUCTURE

B. Tech. (Artificial Intelligence & Machine Learning)

Semester wise Distribution of Courses

No. of				SEMESTE	ER			
Courses	I	II	III	IV	V	VI	VII	VIII
1	Applied Mathematics – I	Applied Mathematics – II	Stastistictics, Probability & Operations Research	Data and Information Management with AI	Computer Algorithms	Database Engineering	Pattern Recognition in ML	Deep Learning
2	Applied Physics	Applied Chemistry	Stastistictics, Probability & Operations Research	Theory of Computation	Computer Vision & Image Processing	Information Security in AI	AI in Web Designing	Natural Language Processing
3	Computer Programming in C	Object Oriented Programming	Introduction to Machine Learning	Operating System	Ad HOC- Wireless Networks	Open Elective-I	Professional Elective-II	Robotics & Intelligence System
4	Engineering Drawing	Engineeing Mechanics	Data Structures	Computer Networks for AI and ML	AI and Computing Intelligence	Professional Elective I	Open Elective-II	Professinal Elective- III
5	Social Innovation	Fundamentals of Electronics and Electrical	Advanced Programming with Machine Learning	Application Based Programming using Python	R Programming for AI and ML	Programming for Problem Solving	Professional Elective-II	Natural Language Processing
6	Professional Communication	Engineering Exploration	Stastistictics, Probability & Operations Research	Theory of Computation	Computer Algorithms	Open Elective-I	Open Elective-II	Professinal Elective- III

7	Applied Mathematics – I	Applied Mathematics – II	The Lab Discrete Mathematics	Operating System	Computer Vision & Image Processing-Lab	Professional Elective I	Pattern Recognition in ML-lab	Deep Learning Lab
8	Applied Physics Lab.	Applied Chemistry Lab.	Data Structures - Lab	Data and Information Management with AI - Lab	AI and Computing Intelligence-Lab	Database Engineering Lab	AI in Web Designing-Lab	Robotics & Intelligence System- Lab
9	Engineering Drawing Lab.	Object Osriented Programming lab	Advanced Programming with Machine Learning - Lab	Computer Networks for AI and ML	Project-II	Information Security in AI-Lab	Project-IV	Community Services
10	Computer Programming in C	Engineeing Mechanics Lab.	Environmental Studies	Application Based Programming using Python	Human Values and Ethics	Project-III	Internship	Project-V
11	Professional Communication Lab I	Fundamentals of electronics and Electrical lab		Project-I				
12	Workshop Practice I	Workshop Practice II		Development of Life Skills				
13	Foreign language (German / Japanese/ Russian) (Non credit)							
14	Democracy, Election & Good Governance (Non Credit Mandatory Course)*							
Credits	22	23	22	22	20	22	24	19

SYLLABUS STRUCTURE

B. Tech. (Artificial Intelligence & Machine Learning)

SEMESTERWISE CREDITS & MARKS

SEM	CREDITS	NO. OF SUBJECT	TOTAL MARKS
I	22	9	825
II	23	7	775
III	22	6	700
IV	22	7	800
V	20	7	700
VI	22	6	700
VII	24	6	700
VIII	19	6	800
TOTAL	174	54	6000

Note:* Democracy, Election & Good Governance subject counted in II SEM.

SCHEME OF TEACHING AND EXAMINATION

FIRST YEAR B. TECH. (Artificial Intelligence & Machine Learning)

SEMESTER- I (Chemistry Group)

		C		7		ing Se	cheme ek	T. 4.1		E	Evaluation S	Scheme (Ma	arks)	
Sr. No.	Course Code	Corse	Name of Course					Total Marks		Theory			Practica	ı
NO.	Coue	Type		L	T	P	Credits	Marks	Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Applied Mathematics-I	3	-	-	03	100						
2			Applied Chemistry	3	-	-	03	100						
3			Computer Programming in C	3	-	-	03	100						
4			Engineering Mechanics	3	-	-	03	100						
5			Fundamental of electronics and Electrical	3	-	-	03	100						
6			Social Innovation	-	1	2	02	50						
7			Applied Mathematics-I	-	1	-	01	25						
8			Applied Chemistry Lab	ı	-	2	01	25						
9			Computer Programming in C Lab	ı	-	2	01	25						
10			Engineering Mechanics Lab	-	-	2	01	25						
11			Fundamental of electronics and Electrical Lab	-	-	2	01	25						
12			Workshop Practice Lab-I	-	-	2	01	50						
13			Foreign language (German/Japanese/ Russian) (Non-Credit)	1	-	-	-	100						
14			Democracy, Election & Good Governar	nce (l	Non (
			Total	16	2	12	23	825						

Note: 1) Tutorials & practical shall be conducted in batches with batch strength not exceeding 20 students.

2) SEE will be conducted for 100 marks and converted to 50 marks.

CSE: Continuous Semester Evaluation

SEE: Semester End Evaluation

IPE: Internal Practical Evaluation

SCHEME OF TEACHING AND EXAMINATION

FIRST YEAR B. TECH. (Artificial Intelligence & Machine Learning) SEMESTER- II

C	C	C		Т		ing S	cheme ek	Takal		Eva	luation Sc	heme (Ma	rks)	
Sr.	Course	Corse	Name of Course					Total		Theory			Practical	
No.	Code	Туре		L	T	P	Credits	Marks	Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Applied Mathematics-II	3	-	-	03	100						
2			Applied Physics	3	-	-	03	100						
3			Object oriented Programming	3	-	-	03	100						
4			Engineering Drawing	2	-	-	02	100						
5			Engineering Exploration	-	-	4	02	100						
6			Professional Communication	2	-	-	02	100						
7			Applied Mathematics-II	-	1	-	01	25						
8			Applied Physics Lab	-	-	2	01	25						
9	_		Object oriented Programming Lab	ı	-	2	01	25						
10			Engineering Drawing Lab	ı	-	4	02	25						
11			Professional; Communications Lab	-	-	2	01	25		·			-	
12			Workshop Practice Lab-II	-	-	2	01	50		·			-	
			Total	13	1	16	22	775						

Note: 1) Tutorials & practical shall be conducted in batches with batch strength not exceeding 20 students.

2) SEE will be conducted for 100 marks and converted to 50 marks.

CSE: Continuous Semester Evaluation SEE: Semester End Evaluation IPE: Internal Practical Evaluation

D. Y. PATIL AGRICULTURE AND TECHNICAL UNIVERSITY, TALSANDE, KOLHAPUR SCHOOL OF ENGINEERING AND TECHNOLOGY SCHEME OF TEACHING AND EXAMINATION

FIRST YEAR B. TECH. (Artificial Intelligence & Machine Learning)

SEMESTER- I (Physics Group)

Sr.	Carres	Cama			achii	ig Sch week				Eva	luation Sch	eme (Mark	(s)	
No	Course Code	Corse Type	Name of Course					Total Marks		Theory			Practical	
•	Coue	Туре		L	Т	P	Credits	WIAIKS	Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Applied Mathematics-I	3	-	-	03	100						
2			Applied Physics	3	-	-	03	100						
3			Computer Programming in C	3	-	-	03	100						
4			Engineering Drawing	2	-	-	02	100						
5			Social Innovation	-	1	2	02	50						
6			Professional Communication	2	-	-	02	100						
7			Applied Mathematics-I	-	1	-	01	25						
8			Applied Physics Lab	-	-	2	01	25						
9			Computer Programming in C Lab	-	-	2	01	25						
10			Engineering Drawing Lab	-	-	4	02	25						
11			Professional; Communications Lab	-	-	2	01	25						
12			Workshop Practice Lab-I	-	-	2	01	50						
13			Foreign language (German/Japanese/ Russian) (Non-Credit)	1	-	-	-	100						
14			Democracy, Election & Good Gov		(Non				se) *					
			Total	14	2	14	22	825						

Note: 1) Tutorials & practical shall be conducted in batches with batch strength not exceeding 20 students.

2) SEE will be conducted for 100 marks and converted to 50 marks.

CSE: Continuous Semester Evaluation SEE: Semester End Evaluation IPE: Internal Practical Evaluation

D. Y. PATIL AGRICULTURE AND TECHNICAL UNIVERSITY, TALSANDE, KOLHAPUR SCHOOL OF ENGINEERING AND TECHNOLOGY SCHEME OF TEACHING AND EXAMINATION

FIRST YEAR B. TECH. (Artificial Intelligence & Machine Learning)

SEMESTER-II

				Т	eachi pei	ng Scl weel				Eva	luation Scl	heme (Mai	·ks)	
Sr.	Course	Corse	Name of Course					Total		Theory			Practical	
No.	Code	Type	Traine of Course	L	Т	P	Credits	Marks	Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Applied Mathematics-II	3	-	-	03	100						
2			Applied Chemistry	3	-	-	03	100						
3			Object oriented Programming	3	-	-	03	100						
4			Engineering Mechanics	3	-	-	03	100						
5			Engineering Exploration	-	-	4	02	100						
6			Fundamental of electronics and Electrical	3	-	-	03	100						
7			Applied Mathematics-II	-	1	-	01	25						
8			Applied Chemistry Lab	-	-	2	01	25						
9			Object oriented Programming Lab	ı	-	2	01	25						
10			Engineering Mechanics Lab	-	-	2	01	25						
11			Fundamental of electronics and Electrical Lab	-	-	2	01	25						
12			Workshop Practice Lab-II	1	-	2	01	50						
			Total	15	1	14	23	775						

Note: 1) Tutorials & practical shall be conducted in batches with batch strength not exceeding 20 students.

2) SEE will be conducted for 100 marks and converted to 50 marks.

CSE: Continuous Semester Evaluation

SEE: Semester End Evaluation

IPE: Internal Practical Evaluation

SCHOOL OF ENGINEERING AND TECHNOLOGY

SCHEME OF TEACHING AND EXAMINATION

SECOND YEAR B. TECH. (Artificial Intelligence & Machine Learning)

SEMESTER-III

G		C				ning Se	cheme ek	T ()		Ev	aluation Sc	heme (Mar	rks)	
Sr. No.	Course Code	Corse	Name of Course					Total Marks		Theory			Practical	
No.	Code	Туре		L	T	P	Credits	Marks	Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Statistics, Probability & Operations Research	3	-	-	3	100						
2			Discrete Mathematics	4	-	-	4	100						
3			Introduction to Machine Learning	3	-	-	3	100						
4			Data Structures	3	-	-	3	100						
5			Advanced Programming with Machine Learning	3	-	-	3	100						
6			Statistics, Probability & Operations Research	-	1	-	1	25						
7			The Lab Discrete Mathematics	-	-	2	1	50						
8			Data Structures - Lab			4	2	75						
9			Advanced Programming with Machine Learning - Lab	-	-	4	2	50						
10			Environmental Studies	2	-	-	-	-						
			Total	18	1	10	22	700						

Note: 1) Tutorials & practical shall be conducted in batches with batch strength not exceeding 20 students.

2) SEE will be conducted for 100 marks and converted to 50 marks.

3) *Environmental Studies project evaluation and theory examination will be conducted at the end of the year (along with Sem IV end examination)

CSE: Continuous Semester Evaluation
EPE: External Practical Examination
SEE: Semester End Evaluation
IOE: Internal Oral Evaluation
EOE: External Oral Examination

SCHOOL OF ENGINEERING AND TECHNOLOGY

SCHEME OF TEACHING AND EXAMINATION

SECOND YEAR B. TECH. (Artificial Intelligence & Machine Learning) SEMESTER- IV

C	C	C		7		ing So	cheme ek	T-4-1		Ev	aluation Sc	heme (Mar	rks)	
Sr.	Course	Corse	Name of Course					Total		Theory			Practical	
No.	Code	Туре		L	Т	P	Credits	Marks	Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Data and Information Management with AI	3	-	-	3	100						
2			Theory of Computation	3	-	-	3	100						
3			Operating System	3	-	-	3	100						
4			Computer Networks for AI and ML	3	-	-	3	100						
5			Application Based Programming using Python	3	-	-	3	75						
6			Theory of Computation	-	1	-	1	25						
7			Operating System	-	-	2	1	25						
8			Data and Information Management with AI - Lab	-	-	2	1	25						
9			Computer Networks for AI and ML	-	-	2	1	75						
10			Application Based Programming using Python Lab	-	-	2	1	50						
11			Project-I	-	-	2	1	75						
12			Development of Life Skills	1		2	1	50						
			Total	16	1	12	22	800		•				

Note: 1) Tutorials & practical shall be conducted in batches with batch strength not exceeding 20 students.

2) SEE will be conducted for 100 marks and converted to 50 marks.

3) * Environmental Studies project evaluation & theory examination will be conducted at the end of the year (along with Sem IV end examination)

CSE: Continuous Semester Evaluation EPE: External Practical Examination

SEE: Semester End Evaluation IOE: Internal Oral Evaluation

IPE: Internal Practical Evaluation EOE: External Oral Examination

SCHOOL OF ENGINEERING AND EXAMINATION

SCHEME OF TEACHING AND EXAMINATION

THIRD YEAR B. TECH. (Artificial Intelligence & Machine Learning) SEMESTER- V

				7		ing So	cheme ek			Ev	aluation Sc	heme (Mar	ks)	
Sr.	Course	Corse	Name of Course					Total		Theory			Practical	
No.	Code	Туре		L	Т	P	Credits	Marks	Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Computer Algorithms	3	-	-	3	100						
2			Computer Vision & Image Processing	3	-	-	3	100						
3			Ad HOC- Wireless Networks	3	-	-	3	100						
4			AI and Computing Intelligence	3	-	-	3	100						
5			R Programming for AI and ML	2	-	4	4	75						
6			Computer Algorithms	-	1	-	1	25						
7			Computer Vision & Image Processing-Lab	-	-	2	1	50						
8			AI and Computing Intelligence-Lab	-	-	2	1	75						
9			Project-II	-	-	2	1	75						
10			Human Values and Ethics	3	-	-	-	-						
			Total	17	1	10	20	700						

Note: 1) Tutorials & practical shall be conducted in batches with batch strength not exceeding 20 students.

2) SEE will be conducted for 100 marks and converted to 50 marks.

CSE: Continuous Semester Evaluation **EPE:** External Practical Examination

SEE: Semester End Evaluation IOE: Internal Oral Evaluation

IPE: Internal Practical Evaluation EOE: External Oral Examination

SCHOOL OF ENGINEERING AND TECHNOLOGY

SCHEME OF TEACHING AND EXAMINATION

THIRD YEAR B. TECH. (Artificial Intelligence & Machine Learning) **SEMESTER-VI**

Teaching Scheme **Evaluation Scheme (Marks)** per week Corse Sr. Course **Total** Name of Course Theory **Practical** No. Code **Type** Marks **Credits** T P Max Min. Max Min. L Scheme Scheme marks **Passing** marks **Passing Database Engineering** 3 3 100 1 2 Information Security in AI 3 3 100 Open Elective-I 3 3 3 100 Professional Elective I 3 4 3 100 5 Programming for Problem Solving 4 75 Open Elective-I 6 1 25 Professional Elective I 25 8 Database Engineering Lab 1 75 9 Information Security in AI-Lab 25 75 2 10 Project-III 4

Total **Note:** 1) Tutorials & practical shall be conducted in batches with batch strength not exceeding 20 students.

14

2) SEE will be conducted for 100 marks and converted to 50 marks.

CSE: Continuous Semester Evaluation

EPE: External Practical Examination

Open Elective I:-1) Legal Aspects of Business

1) Optimization in ML **Professional Elective I:**

SEE: Semester End Evaluation IOE: Internal Oral Evaluation

22

2) Strategic Management

12

2

2) Software Engineering and Testing Methodologies

700

IPE: Internal Practical Evaluation EOE: External Oral Examination

3) Enterprise Solutions

3) Virtual & Augmented Reality

SUMMER INTERSHIP

The students are expected to undergo 4 to 6 weeks internship in the industry and work on the relevant area as assigned by the Industry. The work done should be monitored and evaluated by the concerned industry expert based on the report prepared by the student. The department has to assign faculty mentors to a student who has to communicate with the industry and monitor the entire internship related work periodically. The scheme of evaluation will be as under: -

- a) Industry expert/ supervisor: 70%
- b) Department & Faculty mentor: 30%

Faculty mentor includes presentation and submission of report to the department at the beginning of the subsequent semester.

- 1) The internship can be availed by the students during the summer vacations after completion of semester IV or VI.
- 2) The credits of the internships will be considered in semester VII.
- 3) The industry experts/ supervisor is expected to assign the work worth minimum 100 to 120 hours for 4 weeks duration and should monitor and evaluate periodically.
- 4) At the completion of internship work the student is expected to prepare a report on the work done and get a certificate from the industry expert.

SCHOOL OF ENGINEERING AND TECHNOLOGY

SCHEME OF TEACHING AND EXAMINATION

FINAL YEAR B. TECH. (Artificial Intelligence & Machine Learning)

SEMESTER-VII

C	C	C]		ing Se	cheme ek	T-4-1		Ev	aluation Sc	heme (Mar	rks)	
Sr. No.	Course Code	Corse Type	Name of Course					Total Marks		Theory			Practical	
110.	Coue	Турс		L T	P	Credits	Marks	Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing	
1			Pattern Recognition in ML	3	-	-	3	100						
2			AI in Web Designing	3	-	-	3	100						
3			Professional Elective-II	3	-	-	3	100						
4			Open Elective-II	3	-	-	3	100						
5			Professional Elective-II	-	1	-	1	25						
6			Open Elective-II	-	1	-	1	25						
7			Pattern Recognition in ML-lab	-	-	4	2	50						
8			AI in Web Designing-Lab	-	-	4	2	75						
9			Project-IV	-	-	4	2	125						
10			Internship	-	-		4	-						
			Total	12	2	12	24	700						

Note: 1) Tutorials & practical shall be conducted in batches with batch strength not exceeding 20 students.

2) SEE will be conducted for 100 marks and converted to 50 marks.

CSE: Continuous Semester Evaluation
EPE: External Practical Examination

SEE: Semester End Evaluation
IOE: Internal Oral Evaluation

Professional Elective II: 1) Search Engine Design and Optimization

Open Elective-II: 1) Innovation Management

2) Neural Networks

2) Business Analysis

EOE: External Oral Examination3) Cloud Computing for AI

IPE: Internal Practical Evaluation

3) Enterprise Solutions

SCHEME OF TEACHING AND EXAMINATION

FINALYEAR B. TECH. (Artificial Intelligence & Machine Learning)SEMESTER- VIII

C	C	C		7		ning So er wee	cheme ek	T-4-1		Ev	aluation Sc	heme (Mar	ks)	
Sr. No.	Course Code	Corse	Name of Course					Total Marks		Theory			Practical	
110.	Code	Туре		L	T	P	Credits	IVIAIKS	Scheme	Max marks	Min. Passing	Scheme	Max marks	Min. Passing
1			Deep Learning	3	-	-	3	100						
2			Natural Language Processing	3	-	-	3	100						
3			Robotics & Intelligence System	3	-	-	3	100						
4			Professional Elective-III	3	-	-	4	100						
5			Natural Language Processing	-	1	-	1	25						
6			Professional Elective-III	-	1	-	1	25						
7			Deep Learning Lab	-	-	2	1	75						
8			Robotics & Intelligence System-Lab	-	-	2	1	100						
9			Community Services	-	-	2	1	25						
10			Project-V	-	-	4	2	150						
			Total	12	2	10	20	800			·			

CSE: Continuous Semester Evaluation EPE: External Practical Examination

SEE: Semester End Evaluation IOE: Internal Oral Evaluation

Professional Elective III: 1) Bit coins and Crypto currencies 2) Big data and distributed processing

IPE: Internal Practical Evaluation

EOE: External Oral Examination