TCET/FRM/IP-02/10
Revision: B

Semester Plan
(Practical / Tutorials / Assignment)

Semester: **VI** Course: **B.E IT** Batches: **A1,A3**

Subject: **Intelligent System** Class: B.E - **A** Batch size: **20** Students

Laboratory faculty in charge: Mr. Shridhar K. Lab. Assistant /Attendant: **Vinod Morya**

Note: **Experiment planned as per University Curriculum**

Basic Experiments:

Sr. No.	TITLES Experiments / Tutorials / Assignment (Planning with use of Technology)	Planned Date	Completion Date	Remarks
		A1 A3	**A1 A3**	
1.	To study WUMPUS world problem. With propositional logic and first order logic (Knowledge and Reasoning)	12/9/2017 30/8/2017		
2.	To Study and Compare Various Informed and Uninformed Search Techniques	12/9/2017 30/8/2017		
3.	To study basics of PROLOG	19/9/2017 6/9/2017		
4.	To solving Basic problems like Factorial, Fibonacci series, using PROLOG	19/9/2017 13/9/2017		

Design/ Development Experiments:

Issued By: MR	Approved By: Principal

5.	a) One case study presentation on NLP/Expert system based papers published in IEEE/ACM/Springer or any prominent journal. b)Implementing Water jug problem using 1. BFS. , 2. DFS (Un-Informed Search)	21/7/2017 19/7/2017		
6.	Implementing 8 puzzle problems with Heuristic function using Hill Climbing. (Informed Search)	25/7/2017 26/7/2017		
7.	Implementing 8 puzzle problem with Heuristic function – Best First Search (Informed Search)	1/8/2017 2/8/2017		
8.	Implementing 8 Queen Problem with Heuristic function (Informed Search)	8/8/2017 9/8/2017		
9.	Implementing Tic-Tac-Toe problem to demonstrate Min – Max and Alpha Beta Pruning. (Adversarial Search)	5/9/2017 16/8/2017		
10.	Design Family Information System (PROLOG).	26/9/2017 20/9/2017		
Group Learning Activity:				
11	Case Study on Agent Communication System	3/10/2017 4/10/2017		
12	Case Study on any one Expert System(Example : Evolution of Medical Expert System)	3/10/2017 4/10/2017		
Bridge courses Objective: Bridging of gaps with respect to prerequisites and industry skills or to carryout research in that particular field**. (24 Hrs / Semester / student)**				
S.No.	**Bridge courses/Technology**	**Duration (Week/hrs)**	**Modes of Learning**	**Recommended Sources**
1.	**Prerequisite course:**	2 Weeks /	Self	1. http://www.

	Basic of C,java,PROLOG	3 Hrs	Learning/ Revision	2. http://www.dailyfreecode.com/tutorial_simple_artificial_intelligence-53/prolog-276.aspx
2	**Advanced course: Machine Learning**	06 Weeks / 2 Hrs	Technology Based learning	• https://www.coursera.org/learn/machine-learning

1. **Mini /Minor Projects Objective:** To get hands on experience to execute projects with respect to student choice in the following areas. **(30 Hrs / Semester / Student). (Total 120 Hrs)**

The areas are :

1. Research 2. Core 3. Multidisciplinary 4. Application

Major project : As per University Scheme

S.No	**Project Title/Group Size**	**Class**	**Group Size/ Project Hours**	**Project Type**	**Reference**
1.	Biometric Identification And Real Time Control And Security System In Smart Car (BIRCS3) (3 Students)	B.E	3	Major	TBL
2.	Artificial Intelligence Dietician	T.E	3	Minor	TBL
3.	Timetable Generation	S.E	3	Mini	TBL

No. of Prac	Planned	Completed	No. of Assignments	Planned	Completed	No. of Tutorial	Planned	Completed

	Basic Exp: 03 **Design Base Exp**: 07 **Group Learning:** 02 **Bridge Course:** 01 **Minor Project:** 01			03			01(Low Profile Student)	

DOSLNE:	DOSLE (engaged in some other dates):

Group activities are required to be added with the practical related to course to enhance the learning activity of the student in the course. Group activity includes: Group presentation, new experiment design, mini projects etc.

Note:

1. The practical plan date and completion date shall be in compliance. For any non-compliance reason(s) required to be stated in remark column.
2. Learning objective and outcome shall be clearly stated with each of experiments/ tutorials/ assignments and are required to be mapped at the end of the semester.
3. Entry for DOSLE (engaged on some other date) shall be done with proper mapping to DOSLNE.

SD/-	SD/-	SD/-
Mrs. Neha Patwari		
Name & Signature of Faculty	Signature of HOD	Signature of Principal / Dean Academic
Date:	Date:	Date: