



TCET
DEPARTMENT OF INFORMATION TECHNOLOGY (IT)
 Credit Based Grading Scheme(Revised - 2012) - University of Mumbai
CBGS-2012(R)



TCET/FRM/IP-02/10
 Revision: B
Semester Plan
(Practical / Tutorials / Assignment)

Semester: **VI** Course: **B.E IT** Batches: **A1,A3 ,B2**

Subject: **Intelligent System** Class: **B.E - A ,B** 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	Completi on Date	Remarks
		A1 A3 B2	A1 A3 B2	
1.	To study WUMPUS world problem. With propositional logic and first order logic (Knowledge and Reasoning)	12/9/2017 30/8/2017 7/8/2017		
2.	To Study and Compare Various Informed and Uninformed Search Techniques	12/9/2017 30/8/2017 14/8/2017		
3.	To study basics of PROLOG	19/9/2017 6/9/2017 4/9/2017		
4.	To solving Basic problems like Factorial, Fibonacci series, using PROLOG	19/9/2017 13/9/2017 25/9/2017		

Design/ Development Experiments:

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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 20/7/2017		
6.	Implementing 8 puzzle problems with Heuristic function using Hill Climbing. (Informed Search)	25/7/2017 26/7/2017 24/7/2017		
7.	Implementing 8 puzzle problem with Heuristic function – Best First Search (Informed Search)	1/8/2017 2/8/2017 31/7/2017		
8.	Implementing 8 Queen Problem with Heuristic function (Informed Search)	8/8/2017 9/8/2017 11/9/2017		
9.	Implementing Tic-Tac-Toe problem to demonstrate Min – Max and Alpha Beta Pruning. (Adversarial Search)	5/9/2017 16/8/2017 18/9/2017		
10.	Design Family Information System (PROLOG).	26/9/2017 20/9/2017 25/9/2017		
Group Learning Activity:				
11	Case Study on Agent Communication System	3/10/2017 4/10/2017 16/10/17		
12	Case Study on any one Expert System(Example : Evolution of Medical Expert System)	3/10/2017 4/10/2017 16/10/17		
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/hr s)	Modes of Learning	Recommended Sources
1.	Prerequisite course: Basic of C,java,PROLOG	2 Weeks / 3 Hrs	Self Learning/ Revision	1. http://www.cse.unsw.edu.au/~billw/
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				cs9414/note/s/prolog/intro.html 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	<ul style="list-style-type: none"> 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				03			01(Low Profile)	
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	Exp: 07 Group Learning: 02 Bridge Course: 01 Minor Project: 01						Student)	
DOSLNE:				DOSLE (engaged in some other dates):				
<p>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.</p> <p>Note:</p> <ol style="list-style-type: none"> 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 Dean Academic			Signature of HOD			Signature of Principal /		
Date:			Date:			Date:		
Issued By: MR					Approved By: Principal			