## TCET



**DEPARTMENT OF INFORMATION TECHNOLOGY (IT)** 

Credit Based Grading Scheme(Revised - 2012) - University of Mumbai

CBGS-2012(R)



| TCET          | /FRM/IP-02/10   | 0                                   | - Dia                  |                         | Revision: B         |  |  |
|---------------|---|-------------------------------------|------------------------|-------------------------|---------------------|--|--|
|               | (Pra  | Semeste<br>actical / Tutorial       | r Plan<br>Is / Assignm | ent)                    |                     |  |  |
| Semester: VI  |   | Course: B.E                         | п                      | Batches: B1, B3         |                     |  |  |
| Subjec        | t: Intelligent System   | Class: B.E - B                      | Bate                   | ch size: <b>20</b> Stud | n size: 20 Students |  |  |
| Labora        | tory faculty in charge:Mr.Sridl<br>/Ms.Radhik   | har Lab. A<br>ka                    | Assistant /Atte        | endant: <b>Mr.Mah</b>   | endra/Mr. Maurya    |  |  |
| Basic         | Experiment planned as per o   |                                     | culum                  |                         |                     |  |  |
| Sr.<br>No.    | TITLES<br>Experiments / Tutorials /<br>(Planning with use of T  | / Assignment<br>echnology)          | Planned<br>Date        | Completion<br>Date      | Remarks             |  |  |
| 1             | To study WUMPUS worl<br>With propositional logic a<br>logic (Knowledge and R                              | 7.8.17                              |                        |                         |                     |  |  |
| 2             | To Study and Compare V<br>Informed and Uninformed<br>Techniques   | 14.8.17                             |                        |                         |                     |  |  |
| 3             | To study basics of PROLOG   |                                     | 4.9.17                 |                         |                     |  |  |
| 4             | To solving Basic problem<br>Factorial, Fibonacci series<br>PROLOG   | ns like<br>s, using                 | 25.9.17                |                         |                     |  |  |
| Desig         | n/ Development Experiment   | s:                                  |                        |                         |                     |  |  |
| 5             | a) One case study present<br>NLP/Expert system based<br>published in IEEE/ACM/2<br>any prominent journal. | ation on<br>l papers<br>Springer or | 20.7.17                |                         |                     |  |  |
|               | b) Implementing Water ju<br>using 1. BFS. , 2. DFS ( U<br>Search)   | ig problem<br>Jn-Informed           | 21.7.17                |                         |                     |  |  |
|               |   |                                     |                        |                         |                     |  |  |
| Issued By: MR |   |                                     | Approved By:           | Principal               |                     |  |  |



Issued By: MR

## TCET

**DEPARTMENT OF INFORMATION TECHNOLOGY (IT)** 



artificial\_intellig ence-53/prolog-276.aspx

Credit Based Grading Scheme(Revised - 2012) - University of Mumbai CBGS-2012(R)

| 6   | Implementing 8 puzzle problems with<br>Heuristic function using Hill Climbing. (<br>Informed Search )          | 24.7.17            |                               |   |  |  |
|---|--|--------------------|-------------------------------|---|--|--|
| 7   | Implementing 8 puzzle problem with<br>Heuristic function – Best First Search (<br>Informed Search )            | 31.7.17            |                               |   |  |  |
| 8   | Implementing 8 Queen Problem with<br>Heuristic function ( Informed Search )                                    | 11.9.17            |                               |   |  |  |
| 9   | Implementing Tic-Tac-Toe problem to<br>demonstrate Min – Max and Alpha Beta<br>Pruning. ( Adversarial Search ) |                    |                               |   |  |  |
| 10  | Design Family Information System (PROLOG).   | 25.9.17            |                               |   |  |  |
| Group Learning Activity:  |  |                    |                               |   |  |  |
| 11  | Case Study on Agent Communication System   | 16.10.17           |                               |   |  |  |
| 12  | Case Study on any one Expert<br>System(Example : Evolution of Medical<br>Expert System)                        | 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.   | ridge courses/Technology Duration<br>(Week/hr<br>s) Learning   |                    | Recommended<br>Sources        |   |  |  |
| 1.  | Prerequisite course: Basic of<br>C,java,PROLOG   | 2 Weeks<br>/ 3 Hrs | Self<br>Learning/<br>Revision | <ol> <li><u>http://www.cse.</u><br/><u>unsw.edu.au/~</u><br/><u>billw/cs9414/no</u><br/><u>tes/prolog/intro.</u><br/><u>html</u></li> <li><u>http://www.daily</u><br/><u>freecode.com/t</u><br/>utorial simple</li> </ol> |  |  |

Approved By: Principal



## TCET

**DEPARTMENT OF INFORMATION TECHNOLOGY (IT)** 

Credit Based Grading Scheme(Revised - 2012) - University of Mumbai

CBGS-2012(R)



| 2            | Advanced course:<br>Machine Learning  | 06<br>Weeks /<br>2 Hrs                             | Technology<br>Based<br>learning                 | https://www.cour<br>sera.org/learn/m<br>achine-learning |
|--------------|---|--|---|---|
| 1.<br>The ar | Mini /Minor Projects Objective: To get har<br>respect to student choice in the following are<br>(Total 120 Hrs)<br>eas are :<br>1. Research 2. Core 3. Multidisci | ds on experie<br>as. <b>(30 Hrs /</b><br>plinary 4 | ence to execute<br>Semester / St<br>Application | projects with<br>udent).                                |

Major project : As per University Scheme

| S.No  | Project T  | itle/Group Siz | e                         | Class                                | Group<br>Size/<br>Project<br>Hours     | Project<br>Type    | Referer                       | Reference |  |
|---|--|----------------|---------------------------|--------------------------------------|--|--------------------|-------------------------------|-----------|--|
| 1.  | A machine learning approach in financial markets   |                |                           | B.E                                  | 3                                      | Major              | TBL                           | TBL       |  |
| 2.  | Intelligent Chat Bot   |                |                           | T.E                                  | 3                                      | Minor              | TBL                           | TBL       |  |
|   | Planned  | Completed      |                           | Planned                              | Complete<br>d                          | ſ                  | Planned                       | Completed |  |
| No.<br>of<br>Prac   | Basic<br>Exp: 03<br>Design<br>Base<br>Exp: 07<br>Group<br>Learnin<br>g: 02<br>Bridge<br>Course:<br>01<br>Minor<br>Project:<br>01 |                | No. of<br>Assign<br>ments | 03                                   |  | No. of<br>Tutorial | 01(Low<br>Profile<br>Student) |           |  |
| DOSLNE:   |  |                |                           | DOSLE (engaged in some other dates): |  |                    |                               |           |  |
| <ul> <li>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.</li> <li>Note: <ol> <li>The practical plan date and completion date shall be in compliance. For any non-compliance reason(s) required to be stated in remark column.</li> <li>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.</li> <li>Entry for DOSLE (engaged on some other date) shall be done with proper mapping to DOSLNE.</li> </ol> </li> </ul> |  |                |                           |                                      |  |                    |                               |           |  |
| SD/- SI<br>Mrs Shruti Mathur  |  |                | D/-                       | SD/-                                 |  |                    |                               |           |  |
| Name & Signature of Faculty Sign  |  |                | ature of H0               | DD Sig                               | Signature of Principal / Dean Academic |                    |                               |           |  |
| Date: Date  |  |                | ):                        | Da                                   | te:                                    |                    |                               |           |  |