

TCET/FRM/IP-02/09

Revision: A

Semester Plan
(Beyond curriculum Bridge Course)

Semester: V

Course: MECH

Subject: Introduction to IDE Software

Class: TE (A)

Sr. No	Module No.	Lesson No.	Topics Planned (Technology to be used)	Teaching Aids Required	Planned /Completion Date	Resource Book Reference /Online Courses	Remarks
1	M1	1.1	Introduction to Structure	Online Book, online Video	18-07-2018	1.1,1.2	
2	M1	1.2	How to define variables	Online Book, online Video	25-07-2018	1.1,1.2	
3	M1	2.1	Introduction to different data types	Online Book, online Video	1-08-2018	1.2	
4	M1	2.2	Introduction to arithmetic	Online Book, online Video	08-08-2018	1.2	
5	M2	3.1	Introduction to constant	Online Book, online Video	29-08-2018	1.1	
6	M2	3.2	Introduction to flow control	Online Book, online Video	05-09-2018	1.1	
7	M2	4.1	Introduction to digital i/o	Online Book, online Video	12-09-2018	1.2	
8	M2	4.2	Introduction to Analog i/o	Online Book, online Video	19-09-2018	1.1	
9	M3	5.1	Introduction to time function	Online Book, online Video	26-09-2018	1.2	

10	M3	5.2	Introduction to Math function	Online Book, online Video	03-10-2018	1.1	
11	M3	6.1	Introduction to random function	Online Book, online Video	17-10-2018	1.2	
12	M3	6.2	Introduction to Serial function	Online Book, online Video	17-10-2018	1.1	

Bridge courses Objective: Bridging of gaps with respect to prerequisites and industry skills or to carryout research in that particular field. (30 Hrs / Semester / student)

S.No.	Bridge courses/Technology	Duration (Week/hrs)	Modes of Learning	Recommended Sources
1.	Prerequisite course: Industrial Electronics, Mechatronics	2 Weeks / 3 Hrs	Self Learning/ Revision	Power Electronics M.H.Rashid, Prentice-Hall of India Applied Mechatronics- A. Smaili and F. Mrad, OXFORD university press.
2	Advanced course: Robotic	12 Weeks / 2 Hrs	Technology Based learning	NPTEL http://www.iitk.ac.in/robotics/courses.php "IIT Kanpur
Remark Course	Syllabus Coverage Planned 24	Practice session Planned 02		Beyond Syllabus 01

No of (Lectures Planned)/ (Lectures taken)
24/

Reference Books:

- 1.1 Brain W. Evans "Arduino programming notebook" Prentice Hall of India, 2003.
- 1.2 Allison M. Okamura, "Arduino Programming Language" Stanford University, 2003



Digital Reference:

- 2.1 <https://www.youtube.com/watch?v=nigO-l-RQ3E>
- 2.2 https://www.youtube.com/watch?v=d8_xXNcGYgo
- 2.3 https://www.youtube.com/watch?v=fCxzA9_kg6s
- 2.4 https://www.youtube.com/watch?v=d8_xXNcGYgo&list=PLGs0VKk2DiYx6CMdOQR_hmJ2NbB4mZQn-
- 2.5 <https://www.youtube.com/watch?v=60xluTO9waQ>

Sd/-

Mr. Iqbal Mujawar

Name & Signature of Faculty

Sd/-

Dr. Siddesh Doddametikurke

Signature of HOD

Sd/-

Dr. R. R. Sedamkar

Signature of Principal
/Dean (Academics)

Date: 09/07/2018

Date:

Date:

Note:

1. Plan date and completion date should be in compliance
2. Courses are required to be taught with emphasis on resource book, course file, text books, reference books, digital references etc.
3. In order to improve score in NBA, faculty members are also required to focus course teaching beyond university prescribed syllabus and measuring the outcomes w.r.t learning course and programme objectives.
4. Text books and reference books are available in syllabus. Here only additional references w.r.t. non – digital/ digital sources can be written (if applicable)
5. Technology to be used in class room during lecture shall be written below the topic planned within the bracket.

Issued By: MR

Approved By: Principal