

Mechatronics 2nd Board of Study meeting held on 29th July, 2015 with the following agenda.

Board of study meeting agenda:

- Item 1: Action taken report of first board of study meeting.
- Item 2: Detail course content of third, fifth and sixth semester for 2014 batch
- Item 3: Revised programme structure for the 2015 batch.
- Item 4: Detail course content of revised programme structure for 2015 batch.

Following board of study members and expert invitee were present during the meeting:

1	Mr. Vikrant Pande	Provost, TLSU
2	Dr. Ashutosh Sandhe	I/C Dean, TLSU
3	Dr. Anupam Mitra	I/C Registrar, TLSU
4	Dr. Rahul Kanagat	I/C COE, TLSU
5	Mr. Prashant Parmar	Convener
6	Mr. Udayan Trivedi	Member
7	Mr. Dishank Upadhyay	Faculty
8	Mr. Divyang Jadeja	Member
9	Dr. Anand Joshi	Member
10	Mr. Harish Nachnani	Member
11	Mr. Sudhir Masurkar	Invitee
12	Mr. Hardik Rathod	Invitee

Minutes of the second Board of Study meeting:

1. The board of study members advised to cover air preparation and pressure distribution system in the advanced hydraulics and pneumatics system course.
2. Advised to put more stress on the actuator and pump selection criteria in advised hydraulics and pneumatics system course.
3. Advised to put more stress on practical component of computer numerical control practical course.
4. Advised to arrange industrial visits to interlink the theoretical knowledge and workplace environment for better understanding of plant maintenance and safety course.
5. Advised to invite mentor from the industry for the expert lectures, workshops, career guidance and to provide glance on real workplace problems.
6. All the members and invitees advised to shift On-Job-Training to 6th semester, so by the time student will acquire skills and competency of mechatronics system and will be able to identify mechatronics application and will be more productive for industry.
7. Advised to keep a close tab on the student progress during the On Job Training.
8. Advised to introduce virtual learning software for Mechatronics system to provide the feel of a complex automation system.
9. Integrate the robotics, hydraulics, pneumatics through Programmable Logic Controller to provide complete expose of communication and interfacing.
10. Advised to introduce vector topic in mathematics course for revised programme of year 2015.

11. Department advised to introduce open source software's to understand fundamental of analysis in mechanical and electronics domain.
12. Lubrication, friction and bearing should be included in plant maintenance and safety course.
13. Advised to cover calibration and maintenance in the plant maintenance and safety course.
14. Industry experts recommend to introduce proportional integral derivative controller application in the programmable logic controller practical course.
15. Industry invitees and experts suggested to cover machine vision application in the robotics practical course.
16. Industry experts advised to introduce servo mechanism in the control of electrical drives practical course and put more emphasis on its interfacing.
17. The members suggested to introduce analog and digital sensors interfacing with PLC device in the programmable logic controller practical course.
18. The board of study member recommended to introduce TPM in plant maintenance and safety course.
19. The industry experts commended to introduce gear measurement and geometric accuracy along with general measurement.

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