

Minutes of the Meeting of the Board of Studies

The Meeting of the 4th Board of Studies of Department of Mechatronics was held on 31st July 2019 at 2 p.m. The following members were present.

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| (1) Dr. Avani Umatt | - Chairperson |
| (2) Dr. Sanket Bhavsar | - Member |
| (3) Mr Prashant Parmar | - Member |
| (4) Mr Udayan Trivedi | - Member |
| (5) Mr Dishank Upadhyay | - Convenor |

Invitees:

- (1) Mr. Ashok Kumar K – i/c HOD (IT)
- (2) Dr. Anupam Mitra - i/c Controller of Examinations and HOD (CM)
- (3) Dr. Priyanka Behrani – i/c HOD (LS)

The following members could not attend the meeting -

- (1) Mr. Mohan Tilwalli, Member

The proceedings of the meeting have been presented below.

Item No.1 Minutes of the Previous Meeting of BOS

The minutes of the 3rd BoS meeting held on 13th April 2016 were presented to the members for approval.

The item placed before the Board of Studies was approved.

Item No.2 Action Taken Report on Previous Meeting of BOS

The report on Action Taken based on suggestions from 3rd BoS meeting were presented to the members for information.

The item placed before the Board of Studies for information was noted.



Item No. 3.1 Redefining Programme name from B.Sc. Applied Science (Mechatronics) to B.Sc. Mechatronics

The proposal to change of degree title from 'B.Sc. Applied Science in Mechatronics' to 'B.Sc. Mechatronics' in the interest of better acceptance from various stakeholders and the proposed change was in line with the UGC framework was presented to the member for approval.

The item placed before the Board of Studies was approved.

Item No.3.2 Changes in Mechatronics Programme Structure/ Syllabus/ Curriculum

The revised Mechatronics degree programme in terms of credit weight, programme objective, course outcomes, program structure, additional and deletion of courses along with a detailed curriculum, OJT evaluation criteria and examination scheme was presented to members for approval.

The item placed before the Board of Studies was approved with the following suggestions:

- (1) Advised to add additional books, tutorial in detailed course curriculum of MS014193A5 Computer Aided Graphics.
- (2) Advised to add additional reference books in detailed course curriculum of MS014194A1 Sensor Technology.

Item No.3.3 Part Time B.Sc. Mechatronics for Working Professionals

The proposal for the launch of part-time B.Sc. Mechatronics for the benefit of working professional in Industry was presented to members. The programme duration, credit weight, programme objective, course outcomes, program structure, additional and deletion of courses along with a detailed curriculum, and examination scheme was presented to members. Students are exempted from OJT since they are already working in Industry.

The flexibility to complete the 4 years programme in 3 years through fast-track method was explained to members wherein the students have the provision to sit and appear for final year courses at university examination at any point of time during 1st, 2nd and 3rd year.

The item placed before the Board of Studies was approved with the following suggestions:



'To shift 3rd Semester course Manufacturing Techniques II to 2nd Semester and courses Computer Aided Drafting and Computer Programming from 2nd Semester to 3rd semester to maintain the continuity flow of course sequence.'

Item No.3.4 B.Sc. Mechatronics Programme – Work Based Learning Model

The proposal for the introduction of work-based learning B.Sc. Mechatronics programme in collaboration with industry was presented to members. The advantage of this programme is that the students have the opportunity to undergo training industry during their course of study as per curriculum design. This earn-while-you-learn scheme enables the students to earn stipend, get trained as per industrial standard, and obtain graduation at the same time. The two models designed for the purpose was explained to members for their suggestions.

The item placed before the Board of Studies was approved.

Item No.3.5 Lateral Entry to B.Sc. Mechatronics Programme for Diploma (Mechanical and Mechatronics) holders.

The proposal for the introduction of admission to lateral entry to 2nd year of B.Sc. Mechatronics regular programme and part time programme for 3 year Diploma holders with Mechanical/Mechatronics specialization. The courses being exempted and the courses required to be completed as backlog courses after based on course mapping and equivalence mapping carried out was presented to members.

The item placed before the Board of Studies was approved.

Item No. 4.0 Short-term Skill based Training Programmes under Centre for Industry and Knowledge Partnerships.

Item No.4.1 Diploma in Automotive Machinist – Onsite Programme

The one year Diploma programme in Automotive Machinist is designed based on industrial inputs. The programme duration, programme structure, credit weight, along with a detailed curriculum, and examination scheme was presented to members. The programme is designed to provide hands-on experience on general purpose machines used in workshop. The job role covers different types of machines, its tools, jig and fixtures, safety required and its maintenance. The individual will be able to assist machine operator to carry out required operations as per production sheet.

The item placed before the Board of Studies was approved with the following suggestions:

- (1) To add topic of “Cutting Parameters” in Unit 3 of Turning and Its Allied Operations for Diploma Automotive Machinist
- (2) To add topic of “Attachments” in Unit 3 of Milling Machine and Its Allied Operations for Diploma Automotive Machinist
- (3) To add additional books in detailed course curriculum of Workshop Calculations for Diploma Automotive Machinist.

Item No.4.2 Diploma in Automotive Fitter

The one year Diploma programme in Automotive Fitter designed based on industrial inputs was presented to member along with the programme duration, programme structure, credit weight, along with a detailed curriculum, and examination scheme of continuous evaluation and university evaluation. The programme structure will develop and provides industry relevant skill sets to perform maintenance and basic machining operations. The objective of the programme is to develop technical and employability skills in the learners to perform job roles of fitters. The candidate will get awareness on the quality, standard operating procedure, personal and workplace safety for healthy workplace environment.

The item placed before the Board of Studies was approved with the following suggestions:

- (1) To add topic of “Cutting Parameters” in Unit 3 of Turning and Its Allied Operations for Diploma Automotive Fitter;
- (2) To add topic of “Attachments” in Unit 3 of Milling Machine and Its Allied Operations for Diploma Automotive Fitter;
- (3) To add additional books in detailed course curriculum of Workshop Calculations for Diploma Automotive Fitter.

Item No. 4.3 Short-term Courses in Automation

Various short-term courses related to Automation designed for the benefit of ITI, Diploma and Engineering Degree holders have been presented to members along with the course curriculum. These course would be great help in workplace.

The item placed before the Board of Studies was approved.



Item No. 4.4 Short Term Courses on Computerised Numerical Control

Various short-term courses related to Computerised Numeric Control designed for the benefit of ITI, Diploma, Engineering Degree holders and for working professionals have been presented to members along with the course curriculum. These course would be great help in workplace.

The item placed before the Board of Studies was approved.

Item No. 4.5 Modular Certificate Programme - Bespoke Model

Bespoke Model modular certificate programmes designed based on the requirement received from M/s. Banco Pvt. Ltd., to up-skill their the existing employees or trainees with required flexibility to pursue on part-time basis was presented to members for approval.

The item placed before the Board of Studies was approved.

Item No. 5 Information Related

The success stories of mechatronics students' performance in various competitions, student performance in OJT, placement track record, and department's participation in various projects under CED was presented to member for information.

The item placed before the Board of Studies for information was noted.

The Board of Studies meeting ended with vote of thanks to the Chair.

(Chairperson)

