



**DAYANANDA SAGAR UNIVERSITY
SCHOOL OF ENGINEERING**

DEPARTMENT OF MECHANICAL ENGINEERING

BVOC (Tool Engineering)

Minutes of Meeting – IV BOS

Subject: Board of Studies-
BVOC (Tool Engineering)
Department of Mechanical Engineering

Venue: Autodesk Lab, Block A, DSU – Campus-3

Date: Monday, 14/08/2023

Time: 10:00 am

Agenda

Sl. No	Details
1	Finalization of scheme for all semesters and syllabus for I -II Semester courses for 2023-24 curriculum, BVOC (Tool Engineering) Department of Mechanical Engineering.
2	Finalization of syllabus for III and IV semester Courses 2022-23 scheme for BVOC (Tool Engineering) Department of Mechanical Engineering.
3	Finalization of syllabus for V and VI semester Courses 2021-22 scheme BVOC (Tool Engineering) Department of Mechanical Engineering.



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Points Discussed and Observations:

Chairman Mechanical Engineering, Dr. Vinayak Hemadri welcomed all the members and briefed the agenda.

The Chairman also took the opportunity to present the accomplishments of the department students. Highlighted their active participation in various academic and extracurricular events. The details of the placement statistics has been presented.

The observations during the discussion are presented below.

Agenda 1: Finalization of scheme and syllabus for I -II Semester courses for 2023-24 curriculum, BVOC (Tool Engineering) Department of Mechanical Engineering.

Introduction of a New Lab -English Language Skills Development (ELSD) Lab:

The meeting emphasized the introduction of a new lab called the English Language Skills Development (ELSD) Lab. This lab is designed to enhance students' proficiency in the English language, covering aspects such as reading, writing, speaking, and listening skills. The addition of this lab reflects the institution's commitment to improving students' communication abilities, which are crucial for their overall academic and professional growth.

Reduction of Workshop-1 Credits from 9 to 7:

Another significant point discussed was the decision to reduce the credit hours allocated to workshops. Previously set at 9 credits, these workshops will now be allocated 7 credits. This adjustment reflects a strategic allocation of resources and time, allowing for a more balanced curriculum that caters to both theoretical and practical learning experiences.

Allocation of Credits to ELSD Lab:

With the reduction in workshop credits, the meeting participants agreed to reallocate the freed-up credits to the newly introduced ELSD Lab. This decision was made to ensure that the ELSD Lab receives adequate credit allocation, considering its importance in improving students' language skills. This redistribution of credits underscores the institution's recognition of the significance of effective communication skills in today's academic and professional landscape.



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In conclusion, the discussed changes have been incorporated into the curriculum for the 1st semester. However, it's important to note that there are no modifications to the scheme or syllabus for the 2nd semester. These changes reflect the institution's continuous efforts to enhance the overall educational experience while maintaining a well-rounded and balanced curriculum for the students' academic journey.

The detailed scheme for 2023-24 curriculum for all the semesters and syllabus for first year courses attached as Annexure-I.

Agenda 2: Finalization of syllabus for III and IV semester Courses 2022-23 scheme for BVOC (Tool Engineering) Department of Mechanical Engineering.

3rd Semester:

No Major Changes in Courses: The meeting highlighted that there are no significant alterations to the course subjects in the 3rd semester. This continuity aims to provide students with a consistent learning experience and a smooth progression through the curriculum.

Increase in Workshop Credits: It was agreed upon to increase the credits allocated to workshops by an additional 2 credits. This adjustment seeks to enhance the practical learning opportunities available to students, allowing them to gain more hands-on experience and develop essential skills through workshops that align with their academic pursuits.

4th Semester:

Introduction of Fundamentals of Python Programming Lab: A new lab, "Fundamentals of Python Programming," has been introduced at a basic level in the 4th semester curriculum. This lab, spanning 2 credits, aims to provide students with a foundational understanding of programming using the Python language. Python's versatility and relevance in various fields make it a valuable addition to students' skill sets.

Reduction of Credits from Injection mold and press tool design using CATIA Software
In conjunction with the introduction of the new Python lab, it was decided to reduce 2 credits from the "Injection Mold and Press Tool Design using CATIA Software" lab. This



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adjustment reflects the institution's intention to allocate credits based on the significance and requirements of each topic. The reduction of credits from this lab allows for a balanced distribution of resources across multiple subjects.

The detailed scheme for 2022-23 curriculum for all the semesters and syllabus for second year courses attached as Annexure-II.

Agenda 3: Finalization of syllabus for V and VI semester Courses 2021-22 scheme BVOC (Tool Engineering) Department of Mechanical Engineering.

5th Semester:

Removal of Elective Course: The meeting highlighted the decision to remove a specific elective course from the 5th semester curriculum. The rationale behind this decision could be to streamline the available options and align the curriculum more closely with the program's core objectives.

Introduction to AI and ML Course: In place of the removed elective course, the institution has introduced a new course titled "Introduction to Artificial Intelligence and Machine Learning." This course, with the same credit allocation as the replaced elective, aims to provide students with foundational knowledge in two rapidly advancing fields.

6th Semester:

Additional PLC Concept to Automation in Digital Manufacturing Lab: In the 6th semester, an enhancement has been made to the "Automation in Digital Manufacturing" lab syllabus. Specifically, an additional concept related to Programmable Logic Controllers (PLCs) has been incorporated. This addition is designed to deepen students' understanding of automation processes within digital manufacturing environments. The detailed scheme and syllabus for 2021-22 curriculum for all the semesters and syllabus for third year courses attached as Annexure-III.


Chairman
Dept. of Mechanical Engineering
School of Engineering
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DAYANANDA SAGAR UNIVERSITY
Department of Mechanical Engineering,

School of Engineering

Minutes of Meeting – 3rd BOS

Subject: Board of Studies- Bachelor of Vocational Courses – Pharmaceutical Manufacturing Technology (PMT)

Venue: Board room, 3rd floor, A Block, School of Engineering, DSU, Kudlu gate, Bangalore.

Date: 09-04-2022, 11am to 1pm

Agenda

1	Welcome address by Dr. Vinayak B. Hemadri, Chairman IC – Department of Mechanical Engineering, DSU.
2	Opening remarks on Board of Studies – Prof. V. Krishnamurthy
3	Address by Strides representatives
4	Discussion on third semester course syllabi
5.	Discussion on fourth semester course syllabi
6.	Remarks by Strides representatives
7.	Vote of thanks – Mr. Vijay Kumar, Deputy Director – Training, Placement & Skill Development, DSU



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Points Discussed and Observations:

Chairman -Mechanical Engineering, Dr. Vinayak Hemadri welcomed all the members from Dayananda Sagar University and Strides Pharma Science Ltd. and briefed the agenda. Dr. V. Krishnamurthy elaborated on the past years' experience and future engagements with Strides in his opening remarks. Challenges like logistics and schedule of the classes were also addressed.

Mr. Vijay Singh, VP – Manufacturing, Strides Pharma addressed the BOS and requested for introducing more practical courses and hands on courses in the curriculum. Mr. Rajaram and Mr. Shailesh from Strides Pharma spoke about how the requirements have been met by the curriculum in the previous year. It was also said that B.Voc- PMT is a proud project for Strides Pharma.

Post the remarks by the Strides representatives, a small feedback session from the faculty members who have handled courses in the previous academic year.

Following were the important points noted:

1. Dr. Vanishree shared her views on her interactions with the students and the transformation of the students over the year
2. Dr. Saravana spoke on the hybrid mode of teaching and the challenges faced during online classes due to lockdown.
3. Dr. Wilson requested the Management of Strides to arrange for logistics to conduct Pharma related courses in DSU campus at Kumaraswamy Layout considering the necessary infrastructure is present there. A clear consent was provided for this by the BOS.
4. Prof. Divya spoke about the communication skills of the students and the confidence the students have obtained by the courses.
5. Dr. V Krishnamurthy spoke about the evaluation process followed by the university – the process and difference between CIA and SEE.



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The observations during the discussion on curriculum for the second year are presented below:

- I. Technical Communication – Reading & understanding Pharma Standards, Technical report writing, Regulatory affairs, Legal communication to be included. Case study and dissertation related to Formulative pharmacy to be included.
- II. Topics on Homeopathy to be reduced in Pharma I
- III. Pharma- II – more emphasis to be provided to topics on oral drugs
- IV. Formulative pharmacy (FP) – to be extended to both fourth and third semester as the topics are helpful to the students
- V. Pharma Engineering – concepts of electric motors, PLC, air handling units, HVAC & AHU to be added in the curriculum
- VI. Courses on Quality control and management course and Regulatory affairs to be added
- VII. Strides Pharma has requested to share all the experiments and practical labs for the next two semesters.

Post the curriculum discussion, a few administrative points were discussed.

- I. Merger of batch 2 and batch 1 to be carried out with further discussion with Strides Pharma from the next academic year.
- II. Validity of B.Voc program, recognition by UGC and future scopes like Masters and PhD were discussed in detail
- III. A report on UGC's recognition of B.Voc programs to be provided to Strides Pharma by DSU.

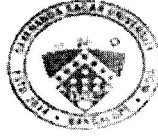
Chairman Mechanical Engineering.

Chairman
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List of BoS members and faculties present:



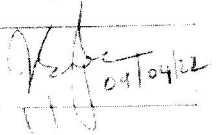
Dayananda Sagar University
School of Engineering,
DEPARTMENT OF MECHANICAL ENGINEERING

Hosur Main Road, Kudlu Gate, Bengaluru-560068

Date: 09-04-2022

Attendance BOS Meeting B. Voc. Pharmaceutical Manufacturing Technology

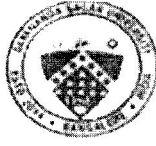
List of BoS members and faculties present

Sl. No	Name, Designation & Affiliation	Signature
1	Vijay Singh VP Manufacturing Site Head Shriides	
2	Deepak S - Sr Manager - VR	
3	Rajaram T - GM - Production	
4	Smriti SR - Sr Executive - HR	
5	Shrilesh L. Lyas Vyas / Admin	
6	Dr. V. Venkatesh, principal, DPS	
7	M.K. Divya DSO. Faculty	
8	VIJAY KUMAR S Deputy Director - Training & placement - DSU	
9	Dr. A. K. S. Kulkarni, Professor, DPS	





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DEPARTMENT OF MECHANICAL ENGINEERING

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Date: 09-04-2022

10	Mr. S. S. Krishna Prudhvi Asst. Professor, IITPS	Y. S. 9/4/22
11	Dr. Vinayak B. Hundi Chairman Mechanical Dept.	(S) 9/4/22
12	Dr. V. Krishna Murthy Research Professor, DSU, Bengaluru	R. Chinn 9.4.2022
13	Dr. Vanishree DSU, Bangalore	RB 9/4/2022
14	Dr. Ashoka S DSU, Bangalore	Shk 09/04/22
15	Dr. Saravanna Bhat DSU, Bangalore	S. B. 09/04/22
16	Dr. S. S. Katta	7/4/22
17	Prof. Shubho Javagal	09/04/22



DAYANANDA SAGAR UNIVERSITY

SCHOOL OF ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING

Minutes of Meeting – XI BOS

Subject: Board of Studies- Department of Mechanical Engineering

Venue: Hybrid Mode

Board Room, 3rd Floor, Block A, DSU Campus-3

Link to Join: <https://zoom.us/j/9060841464>

Date: Thursday, 03/08/2023

Agenda

Sl. No	Details
1	Finalization of scheme for all semesters and syllabus for I year courses for 2023-24 curriculum B.Tech, Mechanical Engineering
2	Finalization of Scheme and Syllabus for III and IV semester courses 2022-23 scheme (B.Tech Program in Mechanical Engineering for Regular students and Lateral entry BOSCH
3	Finalization of syllabus for V and VI semester Courses 2021-22 scheme for B.Tech in Mechanical Engineering
4	Finalization of syllabus for VII and VIII semester Courses 2020-21 scheme, B.Tech in Mechanical Engineering
5	Discussion on New programs for Bosch employees: M.Tech by Research with specialization on Manufacturing and Automation.
6	Any matter of Academic interest- Amendments carried out for 2022-23 scheme for M.Tech Design engineering



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List of BoS members and faculties present:

Sl. No.	NAME	DESIGNATION
1	Dr. Vinayak Hemadri	Chairperson, Department of Mechanical Engineering
2	Dr. K Ramachandra	Former Director, GTRE, Prof. Department of Aerospace, RVCE Bangalore
3	Dr. Ashitava Ghosal	Professor 'Dept. of Mechanical Engineering, Indian Institute of Science, Bangalore.
4	Dr. K. Venkateshwaralu	Scientist, National Aerospace Laboratories, Bangalore
5	Dr. S. Seetharama	Additional Director Central Power Research Institute .Bangalore
5	Dr. M G Anand Kumar	Joint Director, CPRI,
5	Mr. Janamruth U	Technical Architect, Continental Autonomous Mobility India Pvt Ltd, Alumni Representative
6	Dr. Rammohan Bhanumurthy	Professor Department of Mechanical Engineering
7	Dr.Viswanathan R	Associate Professor, Department of Mechanical Engineering, DSU
8	Dr. Saravanabavan	Associate Professor, Department of Mechanical Engineering, DSU
9	Dr. Shahidhar L C	Assistant Professor, Department of Mechanical Engineering, DSU
10	Prof. Bharath Shekar	Assistant Professor, Department of Mechanical Engineering, DSU



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Points Discussed and Observations:

Chairman Mechanical Engineering, Dr. Vinayak Hemadri welcomed all the members and briefed the agenda.

The Chairman also took the opportunity to present the accomplishments of the department students. Highlighted their active participation in various academic and extracurricular events. The details of the placement statistics has been presented.

The observations during the discussion are presented below.

Agenda 1 Finalization of scheme for all semesters and syllabus for I year courses for 2023-24 curriculum B.Tech Mechanical Engineering

- The introduction of the **Introduction to Mechanical Engineering (IME)** course was discussed, and the members agreed on several changes.
- Additionally, 30% of the syllabus has been revised to reflect current developments in both mechanical and electrical engineering, incorporating the latest technological advancements and industry practices.
- Integration of a laboratory component into the course allows students to apply theoretical concepts in practical settings, fostering a deeper understanding of both mechanical and electrical systems.
- The **Engineering Graphics** and **Design Thinking** courses have been merged, and the syllabus has been accordingly revised to integrate the key concepts from both areas.
- The merged course has been renamed **Engineering Graphics and Design Thinking**, and the syllabus has been updated to reflect the integration of both subjects.
- The credit for the **Engineering Mechanics** course has been reduced from **3 credits to 2 credits**. This change was implemented by streamlining certain sections of the syllabus, resulting in a more focused and concise curriculum.
- This adjustment aims to align the course with the overall structure of the program,



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balancing the depth of knowledge with the available academic resources.

- MOOC courses have been introduced in the curriculum from fifth semester onwards. BOS members appreciated the introduction and suggested for through evaluation procedure for the courses as the per University norms
- The members appreciated flexibility provided to students in terms of CBCS based curriculum and integration of skill based learning components
- The introduction of internship component into the curriculum is welcomed by the BOS members
- Sensitization on minor degree programs and specialization to be carried out by the department to the students
- Around twenty five percentage of the syllabus has been modified compared to the previous curriculum

The detailed scheme for 2023-24 curriculum for all the semesters and syllabus for first year courses attached as Annexure-I.

***Note:** Based on the suggestions from other Department BOS meetings the title of the course Basics of Mechanical and Electrical Engineering has been changed to Introduction to Mechanical Engineering, curriculum also offers a course on Introduction to Electrical Engineering.*

Agenda 2: Finalization of Scheme and Syllabus for III and IV semester courses 2022-23 scheme (B.Tech Program in Mechanical Engineering)

A detailed discussion has been initiated to finalize the syllabus for III and IV semester courses. Some of the salient points discussed given below:

- Faculty members are encouraged to take responsibility for interdisciplinary courses offered in the curriculum, such as Machine Learning, Microprocessors, Image Processing, etc.
- The department, in collaboration with the Training and Placement Cell, will facilitate student internships.
- The members expressed appreciation for the flexibility provided to students through the CBCS-based curriculum and the integration of skill-based learning



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components.

- The introduction of the internship component into the curriculum was warmly welcomed by the BoS members.
- The department is tasked with sensitizing students about minor degree programs and specialization options.
- Approximately 30% of the syllabus has been revised compared to the previous curriculum. The detailed scheme for 2022-23 curriculum for all the semesters and syllabus for second year courses attached as Annexure-II

Agenda 3: Finalization of syllabus for V and VI semester Courses 2021-22 scheme for B.Tech in Mechanical Engineering

The major highlights of the discussion as follows:

- The committee broadly agreed to the presented syllabus, with some suggestions regarding the course on Vibration and Control Engineering.
- It was decided that Vibration and Control Engineering should be taught separately, considering the complexity of the syllabus. Control Engineering will be offered as a core course in the VI semester, while Vibration, along with Noise, Vibration, and Harshness, will be included as a professional elective.
- Skill-based training for Automation Engineering will be provided by professional trainers to enhance practical expertise in the field. The detailed scheme and syllabus for 2021-22 curriculum for all the semesters and syllabus for third year courses attached as Annexure-III

Agenda 4: Finalization of syllabus for VII and VIII semester Courses 2020-21 scheme, B.Tech in Mechanical Engineering

Committee agreed broadly to the syllabus presented. The major highlights of the discussion as follows:

- Open elective courses chosen based on the requirement and relevance to mechanical engineering field. The department have to facilitate the students in this regard.



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The detailed scheme and syllabus for 2020-21 curriculum for all the semesters and syllabus for fourth year courses attached as Annexure-IV

Agenda 5: Discussion on New programs for Bosch employees: M.Tech by Research with specialization on Manufacturing and Automation.

A detailed discussion on number courses offered under various categories like professional core, profession electives, open electives and MOOC based courses carried out. The BOS members appreciated the initiatives taken by the Department in this regard. A detailed plan of implementation to be presented at the earliest.

The details of the courses offered is available in Annexure –V

Agenda 6: Any matter of Academic interest- Amendments carried out for 2022-23 scheme for M.Tech Design engineering

- Based on the requirements of statutory bodies like AICTE and UGC for PG programs the credits increased to seventy-eight. In order to accommodate the changes tutorial classes for electives course are introduced and dissertation credits have been increased.
- Redefined Mission statement for the Department of Mechanical Engineering and PEOs for B.Tech Mechanical Engineering has been presented and approved.

The detailed scheme and syllabus is attached as Annexure -VI

Mission statement and PEOs available in Annexure -VII


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