

(Approved Under Section 2(f) and 12(B) of UGC act of 1956)

Shri Mata Vaishno Devi University

School of Computer Science and Engineering Faculty of Engineering, SMVDU Kakryal, Katra 182320

Ref No: SMVDU/SoCSE/2025/ 190

Date: 18.7.2025

Minutes of the 18th Meeting of the Board of Studies (BoS)

The 18th Meeting of the Board of Studies (BoS) of the School of Computer Science & Engineering (SoCSE), Shri Mata Vaishno Devi University (SMVDU), was held on 16th July 2025 at 2:00 PM in online mode.

The details of the online meeting are as follows:

Mode: Online (via Google Meet)

Venue: School of Computer Science & Engineering (SoCSE) Google Meet Link:- https://meet.google.com/rhb-rger-anv

Date: 16th July 2024 Time: 2:00 pm

The following members attended the meeting:

- 1. Prof. Vijay Laxmi, Dept. of Computer Science and Engineering, MNIT Jaipur, External
- 2. Dr. Sunanda, Chairman & Head, SoCSE
- 3. Mr. Manoj Kumar Verma, Associate Head, SoCSE
- 4. Prof. (Dr.) Manoj Kumar Gupta
- 5. Prof. (Dr.) Ajay Kaul
- 6. Dr. Baijnath Kaushik
- 7. Dr. Pooja Sharma
- 8. Dr. Sakshi Arora
- 9. Dr. Naveen Kumar Gondhi
- 10. Dr Rohit Tanwar
- 11. Dr. Archana Purwar
- 12. Dr. Sonika Gupta
- 13. Mr. Sanjay Kumar Sharma
- 14. Dr. Deo Prakash
- 15. Mr. Sudesh Kumar
- 16. Dr. Vipal Kumar Sharma
- 17. Dr. Ravi Datta Sharma (Coordinator M.Sc. Data Science Program)

The agenda items were placed before the members of the Board of Studies and the following discussions/recommendations were made

Agenda Item No. 1: To Review and Approve the Course Structure for M.Sc. in Data Science

The proposed course structure for the M.Sc. programme in Data Science was placed before the Board for consideration and discussion.

The Board members thoroughly reviewed the structure and after deliberation, approved the course structure with the following modifications:

- 1. The course titled "Statistics and Exploratory Data Analysis" in the first semester was proposed to be renamed as "Statistics and Probability for Analytics" - the proposal was reviewed and approved.
- 2. The elective course "Database Technologies" was proposed to be merged with the existing course "Introduction to Linux". The revised course is now titled "Introduction to Linux and Database Technologies", to be offered in the first semester.
- 3. The elective course "Data Visualization" in the second semester was proposed to be included as a core in place of the course "Time Series". The course on "Time Series" has been added to the bucket list of electives.
- 4. A new elective course titled "Emerging Technologies in AI" was proposed to be added in the fourth semester. The proposal was reviewed and approved by the Board.

The revised and approved course structure is attached as Annexure 'A' for reference.

Agenda Item No. 2: To consider and approve the Course Codes for M.Tech (Artificial Intelligence) Courses

The proposed course codes for all courses under the M.Tech (Artificial Intelligence) programme were placed before the members of the Board of Studies for consideration. The Board reviewed the course codes in accordance with the existing Academic Regulations and the specific

The list of course codes assigned is attached herewith as Annexure 'B' for reference and record.

After due deliberation, the Board approved the course codes and corresponding course structure

Agenda Item No. 3: To consider and approve Program Specific Outcomes (PSOs) for B. Tech

The Program Specific Outcomes (PSOs) for the B.Tech and M.Tech programs, as vetted and recommended by the Academic Affairs Committee (AAC), were placed before the Board of

Studies for consideration and approval. The vetted PSOs are enclosed as Annexure 'C' for reference.

The committee was requested to deliberate on the proposed PSOs in the context of the respective programme objectives, curriculum alignment, and industry relevance.

After due deliberations, the Board approved the Program Specific Outcomes (PSOs) as presented for both the B.Tech and M.Tech programs.

Agenda Item No. 4: Action Taken on the Request of Mr. Abhas Kumar (Entry No. 14BCSO01) for Permission to Complete B.Tech. Degree. Reference:

- a. Agenda Item No. 37.17 of the 37th Meeting of the Academic Council, SMVDU
- b. Ref No. SMVDU/AA/25/366 dated 05/06/2025

The case of Mr. Abhas Kumar (Entry No. 14BCSO01), a former student of the B.Tech. (CSE) programme, was placed before the Board members for information, in reference to the above-mentioned communications.

The matter pertained to Mr. Abhas Kumar's request seeking permission to appear in backlog examinations and pursue the 8th semester in order to complete the degree. However, the Academic Council, in its 37th Meeting, did not approve the request, citing previous decisions and the student's academic record.

Subsequently, as per IoC Ref. No. SMVDU/AA/25/366 dated 05/06/2025, **the** student has been duly informed, and an Action Taken Report has been forwarded to the Academic Affairs Wing via Ref. No. SMVDU/SoCSE/25/181 dated 11th July 2025.

The matter was placed before the BoS members for information.

The Board approved the action taken in the matter. The agenda item stands closed.

Agenda Item No. 5: Action Taken with Respect to Agenda Item No. 37.43(E) of the 37th Meeting of the Academic Council of SMVDU

Reference:

- Agenda Item No. 37.43(E) of the 37th Meeting of the Academic Council, SMVDU
- b. IOC Ref. No.: SMVDU/AA /25/370 dated 05/06/2025

The Board was apprised of the directive issued under Agenda Item No. 37.43(E) during the 37th Meeting of the Academic Council of SMVDU, wherein it was desired that the new course codes proposed by the School of Computer Science & Engineering be considered provisionally

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approved, subject to final vetting and incorporation of any required amendments by the Examination Wing.

In compliance with the above directive, the matter was placed before the members of the BoS for review and confirmation of the proposed changes to the course codes, ensuring alignment with the academic regulations and course structuring norms.

Following detailed deliberations, the final course codes were reviewed, approved, and have been incorporated into the B.Tech course structures for the Entry Batches 2023 and 2024.

The Board approved the final course codes.

Agenda Item No. 6: To consider and approve the course structure and syllabus of the subject - Introduction to Artificial Intelligence as a Minor Course

The syllabus for the newly proposed minor course titled Introduction to Artificial Intelligence was presented before the Board of Studies for deliberation and approval. The course is intended to provide foundational knowledge in Artificial Intelligence (AI) as part of the Minor specialization.

The detailed syllabus outlining the course objectives, unit-wise content distribution, and recommended readings is enclosed as Annexure 'D' for reference.

After review and discussion, the Board approved the proposed syllabus.

Agenda Item No. 7: To consider and approve the revised syllabus for the Courses: Data Science and Analytics & Data Science and Analytics Lab offered under 3rd semester of B. Tech

The revised syllabi for the theory course Data Science and Analytics and its corresponding Lab component were presented before the Board for review and approval.

Both the existing and proposed versions of the syllabi were submitted and are attached as Annexure 'E' for reference.

The Board approved the syllabi for Data Science and Analytics and Data Science and Analytics Lab as proposed.

Agenda Item No. 8: To consider and approve the revised syllabus for the Course: High Performance Computing offered as an elective course under B. Tech programme

The revised syllabus for the elective course High Performance Computing (HPC), offered under the B.Tech programme, was placed before the Board for review and approval. The proposed updates were discussed in detail during the meeting.

Both the existing and proposed versions of the syllabus were shared with the members and are attached as Annexure 'F' for reference.

After thorough deliberation, the Board reviewed and approved the updated syllabus for the High Performance Computing course.

Agenda Item No. 9: Introduction of Elective Course - Research Project for B. Tech Students (Entry Batch 2024 onwards)

As per the mandate of the 37th Academic Council Meeting, the School of Computer Science & Engineering (SoCSE) proposed the introduction of a new elective course titled Research Project under the category of School Electives / Discipline Elective Courses (DEC). The course aims to promote a research-oriented mindset among undergraduate students and encourage early academic and scientific contributions.

This course is proposed to be incorporated into the B.Tech curriculum structure from the entry batch of 2024 onwards, to be offered in the fifth semester as School Elective II.

The detailed guidelines for the course, as prescribed in the new academic framework, were presented and are enclosed as Annexure 'G'.

The following key points and clarifications were discussed and agreed upon during the meeting:

1. Registration for the course shall begin in the 5th semester, with the provision that interested students shall receive adequate guidance and mentorship from faculty members before

2. If a student is unable to meet the publishing requirement (i.e., in SCI / SCI Expanded / Scopus / ABDC / SSCI / Premier / Commendable Research categories without impact factor) by the end of the 7th semester, the student shall be given the option to switch to another elective course in the 8th semester to ensure timely completion of the B.Tech degree.

The revised B.Tech course structure incorporating this elective, applicable from the Entry Batch 2024, is attached as Annexure 'H' for reference.

The Board approved the introduction of the Research Project course as an elective in the B.Tech curriculum from the Entry Batch 2024 onwards, along with the guidelines and provisions mentioned above.

Agenda Item No. 10: Inclusion of Course: Entrepreneurship and Venture Development in B.Tech Curriculum (Entry Batch 2024 Onwards)

The Board was apprised that, in accordance with the mandate of the 37th Meeting of the Academic Council, the School of Computer Science & Engineering (SoCSE) has proposed the introduction of a new elective course titled Entrepreneurship and Venture Development. This course is to be

offered under the category of School Electives / Discipline Elective Courses (DEC) in the B. Tech curriculum.

As per the resolution passed in the 37th Academic Council meeting, the course is proposed to be incorporated into the B.Tech programme structure from the Entry Batch of 2024 onwards, and offered in the 5th semester as School Elective II.

The detailed guidelines for the course, as specified in the new academic framework, are enclosed as Annexure 'G', and the revised course structure including this course is attached as Annexure 'H' for review

The following key points and clarifications were discussed

- Enrolment of students must be permitted for internship along with the course Entrepreneurship and Venture Development, as attendance shall not be a mandatory criterion, in accordance with the Academic Rules and Regulations prescribed for this elective course.
- The expert members recommended that this clarification be explicitly communicated to students well in advance, to facilitate informed decision-making and smooth academic planning.

After due deliberation, the Board approved the inclusion of the course Entrepreneurship and Venture Development in the B.Tech curriculum for the Entry Batch 2024 onwards, with the observations and suggestions duly noted and taken into consideration.

Agenda Item No. 11 Analysis of Student Feedback on Curriculum Development and Resultant Revisions in B.Tech Course Structure.

The Board was apprised of the recent initiatives taken by the School of Computer Science & Engineering (SoCSE) in response to student feedback on the B.Tech curriculum. The feedback, compiled and attached as Annexure 'J', was analysed thoroughly and used to inform curriculum enhancement decisions.

Based on this feedback, the following actions have already been initiated:

The B.Tech curriculum has been updated with relevant modifications to better align with academic standards and evolving industry expectations.

The School has proposed to introduce Honours Programs and Minor Specializations starting from the 5th semester, applicable from the B.Tech Entry Batch 2023 onwards, in line with the mandate of the 37th Academic Council Meeting.

The Lecture-Tutorial-Practical (L-T-P) structure of selected elective courses has been revised to improve pedagogical delivery and enhance student learning outcomes.

Specifically, the L-T-P structures of the following courses have been revised based on curriculum feedback and internal evaluation:

Nature Inspired Algorithm

Cloud Computing

• Internet of Things (IoT)

The updated syllabi for the above-mentioned courses are attached as **Annexure 'K'** for review. The proposed revised course structures for:

B.Tech Entry Batch 2023 is attached as Annexure 'I', and

• B.Tech Entry Batch 2024 onwards is attached as Annexure 'H'.

The proposed revisions to the curriculum structure, L-T-P components, and course codes were placed before the Board for review and approval.

The Board approved the proposed revisions in the B.Tech curriculum for both Entry Batch 2023 and Entry Batch 2024 onwards, including:

Modifications based on student feedback.

Revisions in the L-T-P structures of elective courses.

Updated course codes and B.Tech course structures.

The meeting concluded with the Chairperson thanking all members, including the external expert, for their valuable inputs.

The meeting ended with a formal vote of thanks.

Dr. Sakshi Arora Associate Professor & Member Secretary, BoS

Mr. Manoj Kumar

Verma

Assistant Professor & Associate Head,

Member

Prof. (Dr.) Manoj Kumar

Gupta

Professor

Member

Dr. Sunanda

Associate Professor & Head

(School of Computer Science & Engineering)

Prof. (Dr.) Ajay

Kaul

Professor

Member

Dr. Baij Nath Kaushik Associate Professor

Member

Dr. Naveen Kumar Gondin

Associate Professor Member Dr. Pooja Sharma 107 12 Associate Professor

Member

Dr. Archana Purwar Associate Professor Member

Dr. Rohit Tanwar Associate Professor Member

Dr. Sonika Gupta Assistant Professor Member

Mr. Sanjay Kumar Sharma Assistant Professor Member

Dr. Deo Prakash Assistant Professor Member Mr. Anuj Mahajan Assistant Professor Member

Mr. Sudesh Kumar Assistant Professor Member

Dr. Vipal Kumar Sharma Assistant Professor Member Dr. Ravi Datta
Sharma
ASSOCIAProfessor
Special Invitee,
Member

Prof. Vijay Laxmi MNIT Jaipur External Expert

Copy to:

- 1. Chairperson
- 2. Prof., Vijay Laxmi, External Expert
- 3. Members of the BoS
- 4. Dr. Ravi Datta Sharma Pesacie Professor, School of Biotechnology
- 5. Record/office File