

MINUTES OF THE
MEETING OF 15th BOARD OF
STUDIES FOR THE REVIEW AND
REVISION OF CURRICULUM

On

14th June, 2023



School of Computer Science & Engineering
Shri Mata Vaishno Devi University
Kakriyal, Katra-182320

A Board of Studies meeting was scheduled on 14th of June, 2023 to review and revise the curriculum. The details are given as under.

BOS MEETING OBJECTIVES

1. Review/revision of curriculum in line with emerging areas of importance with reference to present needs in Higher education, Industry & Research and scope of employability.
2. Introduction of New Subjects as per the latest UGC/AICTE guidelines
3. External Experts for B.Tech Projects & M.Tech Thesis Evaluation.
4. Experts for delivering lectures to achieve 10% syllabus coverage.
5. Any other related matter suggested by expert members and Faculty members.

MEMBERS OF BOS, SoCSE

Name	Designation and Affiliation
Mr. Akshay Bhargava	Head, PMO Govt Industry Solutions, Tata Consultancy Service, External Member
Dr. Ajay Koul	Dean, Faculty of Engineering & Associate Professor, School of CSE, SMVD University
Dr. Baijnath Kaushik	Head & Associate Professor, School of CSE, SMVD University
Dr. Manoj Kumar Gupta	Associate Professor, School of CSE, SMVD University
Mr. Manoj Kumar	Assistant Professor, School of CSE, SMVD University
Ms. Sonika Gupta	Assistant Professor, School of CSE, SMVD University
Dr. Sunanda	Assistant Professor, School of CSE, SMVD University
Dr. Sakshi Arora	Assistant Professor, School of CSE, SMVD University
Dr. Naveen Kumar Gondhi	Assistant Professor, School of CSE, SMVD University
Ms. Pooja Sharma	Assistant Professor, School of CSE, SMVD University
Mr. Sanjay Kumar Sharma	Assistant Professor, School of CSE, SMVD University
Mr. Deo Prakash	Assistant Professor, School of CSE, SMVD University
Mr. Anuj Mahajan	Assistant Professor, School of CSE, SMVD University
Mr. Sudesh Kumar	Assistant Professor, School of CSE, SMVD University

Venue, Date & Timings: (Online Meeting via Google meet link)

School of Computer Science & Engineering, Shri Mata Vaishno Devi University, Katra-182320.
 Wednesday, 14th June - 11:00am - 12:00pm

Time zone: Asia/Kolkata

Google Meet joining info

Video call link: <https://meet.google.com/dnj-nwun-bby>

AGENDA ITEMS

Agenda item No. 1: To consider & approve the retroactive updates in the course structure for the students of B.Tech (CSE) programme (Entry batch 2022)

The matter regarding consideration and approval of B.Tech Course Structure was placed before the Board and the discussions were held. After going through the course curriculum, and all other relevant details regarding B.Tech Program the, board provided the following suggestions

- i. As per minutes of the 34th Academic Council meeting found on pg.11-12 (Agenda Item No. 34.14): The course "Discourse on Human Virtues" is renamed as "Discourse on Universal Human Values: Understanding Harmony and Ethical Conduct" (UHV-II) for B.Tech CSE 2nd Semester, the 2022 batch.
- ii. With reference to action taken report dated 14.12.2022 with respect to the minutes of meeting of 34th Meeting of Academic Council, 29/11/2022, regarding consideration of deletion of PCL 2042, Introduction to Logic from B.Tech 3rd semester and replace with new course shall be discussed in upcoming meeting of Board of studies. The board was of the opinion to keep the subject "PCL 2042, Introduction to Logic" unchanged keeping in view the feedback given by faculty members and students of previous semester.
- iii. With reference to Minutes of meeting of the 34th Academic Council, Agenda Item No 34.22 mentions the revision in the course "PCN 1010, NSS" as per the following table:

Agenda Item No.	Proposal for relaxation for Registration of NSS course
34.22	
Resolution	The Agenda was examined by the Academic Council and it was decided that the proposal needs to be resubmitted by the NSS coordinator as per Govt. of India norms. Further, it was decided that the NSS criteria needs to be delinked from the Degree Mark sheet. The students should be given the credits for NSS as and when they complete the stipulated NSS hours are positive at the Semester which they are currently in. The NSS hours are to be recorded in the Degree Mark sheet.

The Board discussed the agenda and approved the revised course structure of the above said programmes. After detailed discussions, the Board ratified the decision and approved the revised course structure.

The updated course structure is attached at **Annexure 'A1'**.

Agenda item No. 2 : To consider & approve revision in the course structure for the students of B.Tech (CSE) programme (Entry batch 2023 onwards)

The matter regarding consideration and approval of B.Tech Course Structure was placed before the Board and the discussions were held. After going through the course curriculum, and all other relevant details regarding B.Tech programme, the board provided the following suggestions-

- School electives to be distributed among the students on the basis of merit to ensure equal enrolment in the respective elective being offered.
- To consider & approve the introduction of the Comprehensive Exam in the B.Tech 6th semester which is mandatory for award of degree.
- With reference to the IoC No : SMVDU/DQA/2023/418-21 dated 6th June, 2023 received from the Director, DQA, the analysis report was also prepared and placed before the board for incorporating suggestions in the curriculum development after collecting feedback from the various stakeholders.

Agenda item No. 2(a) : To consider & approve the changes in the L-T-P structure of the following courses offered to B.Tech (CSE).

Sr. No.	Course Code	Semester	Course Name	Current L-T-P	Current Credits	Proposed L-T-P	Proposed Credits	Applicable from Entry Batch
1.	CSC 4001	7	Summer Internship III	-	1	-	2	2020
2.	CSL 1028	2	Programming in Python	2-0-0	2	3-0-0	3	2023
3.	CSP 1028	2	Python Programming Lab	0-0-4	2	0-0-2	1	2023
4.	CSL 3101	3	Artificial Intelligence	3-1-0	4	3-0-0	3	2023
5.	CSC 3001	5	Summer Internship-II	-	1	-	2	2023
6.	CSD 4002	7	Mini Project	-	4	-	5	2023
7.	CSD 4100/ CSC 4083	8	Major project/Internship	-	10	-	12	2023

NOTE: The course mentioned at Sr. No 2 & 3 is floated by all schools offering B.Tech programme (except SoALD) in 2nd semester, therefore, the same has been intimated to be changed in their respective course structure too for ensuring even parity across the schools offering the same course.

Agenda item No. 2(b): To consider and approve removal of various courses of B.Tech programmes. The committee found that many courses which were offered in various semester of B.Tech program had content which overlay with the other subject being offered-

S No	Details of Course	Removed from	LTP	Credits
1	CSL 1001, Introduction to Computer Sc. & Engineering	1st semester	-	NC
2	CSL 2022, Object Oriented Programming	3rd semester	3-0-0	3
3	CSP 2022, Object Oriented Programming Lab	3rd semester	0-0-2	1
4	CSD 3001, Mini Project -I	5th semester	-	3
5	CSD 3002, Mini Project -II	6th semester	-	3
6	BUL 4011, Entrepreneurship Management	7th semester	3-0-0	3
7	CSE 6036, Deep Learning	School Elective II list	3-0-0	3
8	CSE 4223, High Performance Computing	School Elective V list	3-0-0	3

Agenda item No. 2(c): The matter regarding consideration and approval was placed before the Board and proposal for the inclusion of following course as core course which was already offered to the students in the school for Entry Batches 2017 and 2018:

Sr. No.	Course Code	Course Name	Semester	L-T-P	Credits
1.	CSL 4110	Data Science & Analytics	3	3-0-0	4

After detailed discussions, the Board ratified the decision and approved the course. The syllabus of the course is attached as **Annexure 'A'**.

Agenda item No. 2(d): The matter regarding consideration and approval for a revision in the course "CSL 3023, JAVA Programming" & "CSP 3023, JAVA Programming Lab" was placed before the Board:

Sr. No.	Course Code	Course Name	Semester	L-T-P	Credits
1.	CSL 3010	Object Oriented Programming using JAVA	5	3-0-0	3
2.	CSP 3010	Object Oriented Programming Lab using JAVA	5	0-0-2	2

After detailed discussions, the Board ratified the decision and approved the revision in the course. The details of the course with modified syllabus are given at **Annexure 'B'**.

Agenda item No. 2(e): The matter regarding consideration and approval of revision of course structure of B.Tech (CSE) programme and proposal for the inclusion of following courses as core courses (which is also being offered to the PG students in the school) was placed before the Board:

Sr. No.	Course Code	Course Name	Semester	L-T-P	Credits
1	CSL 3110	Deep Learning	6	3-0-0	3
2.	CSP 3110	Deep Learning Lab	6	0-0-2	2

The board sought clarifications from the concerned faculty members proposing the change and after discussions approved the course. After detailed discussions, the Board ratified the decision and approved the course. The details of the course syllabus are given at **Annexure 'C'**.

Agenda item No. 2(f): To consider & approve inclusion of policies for organizing internships as per the latest AICTE Guidelines: The matter regarding consideration and approval of proposal for organizing internships as per the AICTE guidelines issued recently.

The Table 1 gives the Overall compilation of internship activities, list of sub-activities under each of these segments, the level of achievement expected, evidence needed to assign the points and the minimum duration needed for certain activities.

Table 1 Overall compilation of Internship Activities - Credit Framework

Major Head of Activity	Credits (Max.)		Suggested period (Max.)	Total Duration/ Week		Sub Activity Head	Proposed Document as Evidence	Evaluated by	Performance appraisal/ Maximum points/ activity
	Degree	Diploma		Degree	Diploma				
Inter/ Intra Institutional Activities	3-4	3-4	During summer vacation after 2 nd sem.	3-4	3-4	Inter/ Intra Institutional Workshop/ Training/	Certificate	Programme Head	Satisfactory/ Good/ Excellent
						Working for consultancy/ research project	Certificate	Programme head	Satisfactory/ Good/ Excellent
						Festival (Technical / Business / Others) Events/	Certificate	Programme Head	Satisfactory/ Good/ Excellent
						Contribution in Incubation/ Innovation/ Entrepreneurship Cell/ Institutional Innovation Council	Certificate	Cell In-charge	Satisfactory/ Good/ Excellent
Innovation / IPR / Entrepreneurship	4-6	4-6	During summer vacation after 4 th / 6 th sem	4-6	4-6	Learning at Departmental Lab/ Tinkering Lab/ Institutional workshop	Certificate	Cell In-charge	Satisfactory/ Good/ Excellent
						Participation in innovation related competitions for eg. Hackathons etc.	Certificate	Faculty Mentor	Satisfactory/ Good/ Excellent
						Development of new product/ Business Plan/ registration of start-up	Certificate	Programme Head	Satisfactory/ Good/ Excellent
						Participation in all the activities of Institute's Innovation Council for eg. IPR workshop/ Leadership Talks/ Idea/ Design/ Innovation/ Business Completion/ Technical Expos etc.	Certificate	President/ Convener of ICC	Satisfactory/ Good/ Excellent
Internship	4-6	4-6	During summer vacation after 4 th / 6 th sem.	4-6	4-6	Work experience at family business	Declaration by Parent	TPO	Satisfactory/ Good/ Excellent
						(Internship with Industry/ Govt. / NGO/ PSU/ Any Micro/ Small/ Medium enterprise/ Online internship	Evaluating Report	Faculty Mentor/ TPO/ Industry supervisor	Satisfactory/ Good/ Excellent
						Long Term goals under rural Internship	Evaluating Report	Faculty Mentor/ TPO/ NSS/ NCC head	Satisfactory/ Good/ Excellent
Project Work/ Seminar/	3-4	-	8 th sem.	3-4	-	As specified in the curriculum of the	Project Report	Project Head	Satisfactory/ Good/ Excellent

The detailed report issued by AICTE for conducting Internships/Project work for both UG/PG programmes is attached as Annexure 'D'. After detailed discussions, the Board ratified the decision and approved the modalities laid by AICTE to be followed in letter and spirit for conducting Internships & Mini/Major Projects.

Agenda Item No. 2(g): To consider and approve shifting of various courses of B.Tech programme. The committee had a discussion with the subject experts and deliberated on the feasibility of shifting subjects from one semester to other. After detailed discussions & keeping in view the pre requisites it was decided and approved as per the details given in the following table:

S No	Details of Course	Shifted from Semester	Shifted to Semester
1	CSL 3071, Computer Network & Communications	4th	5th
2	CSP 3071, Computer Network & Communications Lab	4th	5th
3	CSL 4053, Compiler Design	5th	6th
4	CSL 3101, Artificial Intelligence	5th	3th
5	CSL 4107, Machine Learning	6th	5th
6	CSP 4107, Machine Learning Lab	6th	5th
7	CSL 3035, Soft Computing	6th	4th
8	CSP 3035, Soft Computing Lab	6th	4th

Agenda item No. 2(h): To consider & approve the following courses of B.Tech(CSE) to be offered as a core course instead of as an elective course.

Sr. No.	Degree	Course Code	Course Name	L-T-P	Credits
1.	B. Tech	CSL 4223	High Performance Computing	3-0-0	3

The board sought clarifications from the concerned faculty members proposing the change and after discussions approved the course. The board suggested and approved the course code to be changed from CSE 4223 to CSL 4223 as the elective course was proposed to be offered as a 'core' course.

Agenda item No. 2(i): The matter regarding consideration and approval of revision of course structure of B.Tech (CSE) and proposal for the inclusion of following new elective courses was placed before the Board as specified by the AICTE (latest guidelines)

Sr. No.	Course Code	Course Name	Semester	L-T-P	Credits
1.	CSE 3201	Web Programming using JavaScript (School Elective-I)	5	3-0-0	3
2.	CSE 3202	Advanced Mobile Communication using 5G (School Elective- II)	6	3-0-0	3
3.	CSE 4134	Metaheuristic Design Framework	7	3-0-0	3

After detailed discussions, the Board ratified the decision and approved the course. The details of the course with updated syllabus for S.Nos 1, 2. & 3 are attached as **Annexure 'E', 'F' & 'G'** respectively.

Agenda item No. 2(j): School Academic Affair Committee will select 40% of the courses from the course structure of B.Tech CSE to be offered through SWAYAM/NPTEL prior to the semester course registration. The credit of the course in the SWAYAM/NPTEL should be equal to or more than the credit of the corresponding course as mentioned in the course structure however the credit earned will be the same as mentioned in the course structure. The above provisions may be applied from the 2023 batch onwards. The same is currently proposed to be introduced initially in the 8th semester as Open Elective and shall be offered along with Major Project.

The Board discussed the agenda items mentioned above at point numbers 2 and from point numbers 2(a) to 2(j) (except point no 2(a).1 which shall be applicable from entry batch 2020) respectively and approved the revised course structure proposed for B.Tech CSE programme applicable from entry batch 2023 onwards. The modified course structure is attached as **Annexure 'H'**.

Agenda Item No. 3: To consider & approve the updates in the course structure of M.Tech (CSE) program (Entry batch 2021 onwards)

With reference number SMVDU/SoCSE/23/029 dated 12th May 2023, the matter regarding consideration and approval of revision of course structure of M.Tech (CSE) for Entry Batch 2021-23 was placed before the Board.

S. No	Course Name	L-T-P	Credits	Existing Course Code	Updated Course Code
1	Advance Computer Networks	3-0-0	3	CSL 6105	CSL 6106
2	Advance Computer Networks Lab	0-0-2	1	CSP6105	CSP 6106

The Board approved the course structure after detailed discussions. The same is attached at **Annexure 'I'**.

Agenda item No. 4: External Experts for B.Tech Projects & M.Tech Thesis Evaluation.

The Board approved the list of External Experts (**Annexure 'J'**) for the purpose of B.Tech Projects evaluation and M.Tech Thesis evaluation.

Agenda item No. 5: List of Experts for delivering lectures to achieve 10% syllabus coverage

The Board suggested adherence to the well-defined guidelines already available with the University and school for inviting the expert for delivering expert lectures.

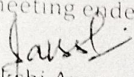
Agenda item No. 6: To consider & approve the new course to be offered for the students of Allied/Integrated programmes run by the university (Entry batch 2023 onwards)

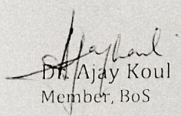
The matter regarding consideration and approval of proposal for the inclusion of following course (from first year) as elective course, which is to be offered to the students of the Allied/Integrated programmes run by the university, was placed before the Board:

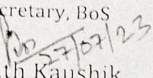
Sr. No.	Course Code	Course Name	L-T-P	Credits
1)	CSE 1014	Cyber Security	4-0-0	4

After detailed discussions, the Board ratified the decision and approved the course. The details are given at **Annexure 'K'**.


The meeting ended with the vote of thanks.

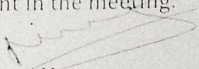

Dr. Sakshi Arora
Member Secretary, BoS

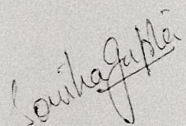

Dr. Ajay Koul
Member, BoS

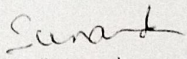

Dr. Baijnath Kaushik
Chairman BoS & Head, SoCSE

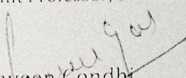
Signatures of the faculty members present in the meeting:

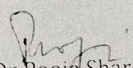

Dr. Manoj Kumar Gupta
Associate Professor, School of CSE

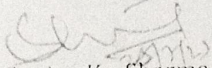

Mr. Manoj Verma
Assistant Professor, School of CSE

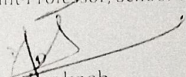

Dr. Sonika Gupta
Assistant Professor, School of CSE

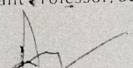

Dr. Sunanda
Assistant Professor, School of CSE

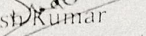

Dr. Naveen Gondhi
Assistant Professor, School of CSE

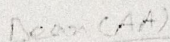

Dr. Pooja Sharma
Assistant Professor, School of CSE


Mr. Sanjay Kr. Sharma
Assistant Professor, School of CSE


Mr. Deo Prakash
Assistant Professor, School of CSE


Mr. Anuj Mahajan
Assistant Professor, School of CSE


Mr. Sudesh Kumar
Assistant Professor, School of CSE


Dean (AA)