



Dayananda Sagar University

School of Engineering

Innovation Campus, Kudlu Gate, Hosur Road, Bengaluru

DEPARTMENT OF COMPUTER SCIENCE & TECHNOLOGY

PROCEEDINGS OF BOS MEETING

School	School of Engineering
College	Dayananda Sagar University
Program/ Department	Computer Science & Technology
Mode of BOS Held	Blended Mode
Date	28/07/2023
Venue	Offline: Meeting Room, III Floor, Block B, DSU campus, Kudlu Gate, Hosur main road, Bangalore. Online google meet link: https://meet.google.com/gde-qvjo-irk
Time	09:30 AM – 01:00 PM

Members Present:

S. No.	Name	Designation & Affiliation
1.	Dr. M Shahina Parveen	Professor and Chair, Department of CST SoE, DSU, Bengaluru.
2.	Mr. N. C. Sriraman	Co-Founder, MD, Metaphonic Networks Pvt. Ltd. (Entrepreneurship, Agile Transformation, Executive Coach, Mentor), Alumnus IIT Madras.
3.	Mr. Ishwar Sundararaman	Serial Entrepreneur, Founder & CEO Unsolved, Pvt, Ltd, IIMB Alumnus.
4.	Mr. Neerav Joshipura	Founder Director, SoftN Enterprises, DSU, Bengaluru.
5.	Dr. B Surendiran	Associate Professor, School of Computer Science & Engineering, NIT Puducherry, Karaikal.
7.	Mr. Shivraj	Product Engineer, Justpay Pvt. Ltd, Bengaluru.
8.	Dr. Lakshmi Jagannathan	CEO at DERBI Foundation Bengaluru, Karnataka, India.

9.	Dr. Amit R Bhatt	Pro-VC, DSU, Bengaluru.
10.	Dr. Uday Kumar Reddy	Dean-SOE, DSU, Bengaluru.
11.	Prof. Ramandeep Kaur	Assistant Professor, Dept. of CST, DSU, Bengaluru.
12.	Prof. Baskar Venugopalan	Professor of Practice, Dept. of CST, DSU, Bengaluru.
13.	Dr. D. Sudha	Associate Professor, Dept. of CST, DSU, Bengaluru.

Agenda:

S. No.	Particulars
1	Discussion on BTech CST (2020-24 batch) 7 th and 8 th semester scheme and syllabus.
2	Discussion on BTech CST (2021-25 batch) 5 th to 8 th semester scheme and syllabus.
3	Discussion on BTech CST (2022-26 batch) 3 rd to 8 th semester scheme and syllabus.
4	Discussion on BTech CST (2023-27 batch) 1 st to 4 th semester scheme and syllabus.
5	Department Vision, Mission, PEOs, PSOs. (Inclined with institutional vision, mission).
6	Implementation of NEP 2020 & suggestions.
7	Courses on Employability, Entrepreneurship, Skill development, Percentage of new courses introduced and Mooc Courses for credit transfer.
8	Minor Degree & Honour degree CST.
9	List of programs clearly indicating course, credit/elective in the CBCS program structure.
10	Any other matter of academic concerns.

Summary:

The meeting began on time, using blended mode. Dr. M. Shahina Parveen, Professor and Chairperson of the Department of Computer Science and Technology, began the meeting by welcoming reconstituted members of the BOS and the Department Curriculum Committee. Dr. M. Shahina Parveen briefed all attendees on the department accomplishments and meeting agenda followed by discussion on each agenda points with

respective CST curriculum documents which are enclosed in prior to all the BOS members.

Discussion on Agenda:

Agenda	Discussion Brief
1	Discussion on BTech CST (2020-24 batch) 7th and 8th semester scheme and syllabus: Stakeholder feedback on curriculum by students, faculty, alumni, industry experts and employers were discussed. Based on the feedback collected the following changes in the curriculum have been incorporated. Courses on disruptive technologies, entrepreneurial field work such as product development, IPR and Quantum computing were incorporated. Suggestions: Mr. Neerav Joshipura suggested to include disruption content under technology strategy course.
2	Deliberations & Discussion on BTech CST (2021-25 batch) 5th to 8th semester scheme and syllabus. Appreciated about the curriculum design by all the members. Panel experts suggested to incorporate courses around digital marketing & SEOs. Department considered to provide as a Mooc course to start with. New course was introduced in 5th semester Data Management & Mining both theory and laboratory which was approved by the members. The experts suggested to include Mooc courses from NPTEL on full stack development and devops. Open elective: Technology strategy course was introduced and deliberated the detailed syllabus.
3	Discussion on BTech CST (2022-26 batch) 3rd to 8th semester scheme and syllabus. The curriculum follows NEP 2020 and addresses the following features under different categories 1. Student Centric flexible curriculum. 2. Inter-disciplinary Courses. 3. Multi-disciplinary Courses. 4. Ability Enhancement Courses. 5. Skill Enhancement Courses. 6. Value Added Course., 7. Product Design and Development. 8. Internship (Rural Internship, Industry Internship, Research/Development Internship), and

	9. Multiple Exit and Multiple Entry CST department skill enhancement courses: Design Thinking and Ideation, Introduction to IPR and Registration syllabus was discussed and approved. Professional elective courses/ Mooc based on 4 domains were newly introduced and discussed with BOS members. Domain-1: GAMING AND ANIMATIONS/AR&VR Domain-2: QUANTUM INFORMATION SYSTEM Domain-3: INTERNET OF THINGS TOOLS & TECHNOLOGIES Domain-4: DATA ANALYTICS Special Topic introduced in 3rd Year consisting of courses research paper writing and patent filing. Minor Project and Internship were introduced for 3 credits in 6th semester. Categorization of domains was well appreciated by the expert's members. Dr. B Surendiran was happy the way the department is conducting the academic activities. He suggested that by adding digital market & search engine optimization (SEO) based courses as part of the curriculum will add more weightage to the Programme. He also appreciated that overall, the program is good and going in the right direction.
4	Discussion on BTech CST (2023-27 batch) 1st to 4th semester scheme. Dr. Uday Kumar Reddy asked the BOS members about their thoughts on the department's operation and the curriculum design of the respective batches for the upcoming semesters. He also stated that the first- and second-year courses have been completely redesigned to meet market demands and expectations, in accordance with NEP and UGC guidelines, following extensive brainstorming. Mr. Neerav Joshipura pointed that course curriculum is on the right path and we should focus on validating the deliverables with the startup ecosystem. Mr. Ishwar Sundararaman applauded the fact that things are moving in the right direction. In contrast to the dual career path that is envisaged, he suggested that it is better to see whether the course outcomes are beneficial to the startup ecosystem, whether as an employee of the startup or as a startup founder. Mr. N. C. Sriraman was happy that product development lifecycle is being practiced as part of the course curriculum with devsecops and implementation leveraging

	infrastructure workflow automation.
5	Department Vision, Mission, PEOs, PSOs. (Inclined with institutional vision, mission). The vision, mission and PEOs of the department are framed, taking into consideration the suggestions, feedback and inputs from different stakeholders. The Vision and Mission, PEOs and PSOs are reviewed and refined. The process that was followed in recent revision is as follows: 1. Initial discussion was conducted among the faculty members and student representatives to draft the Vision and Mission statements of the department in the presence of Chairperson keeping the Vision and Mission of the institute in the mind. A brainstorming session was conducted and this was followed up by a discussion session to come up with a draft version of the Vision and Mission of the department. 2. This draft was shared with the different stakeholders and their comments and suggestions were collected. The stakeholders include parents, current students, alumni, industry professionals, employers, academicians from other reputed institutions. 3. The comments and suggestions received are consolidated, analysed by chairperson and are discussed in the faculty meetings and changes, if felt necessary, are incorporated in the Vision and Mission statements. The Vision and Mission statements are reviewed with the department advisory board and approved by the management.
6	Implementation of NEP 2020 & suggestions. Presented about the curriculum design by using NEP 2020 and UGC guidelines.
7	Courses on Employability, Entrepreneurship, Skill development, Percentage of new courses introduced. Presented on the newly introduced courses, various domain specific courses related to Employability, Entrepreneurship and Skill development.
8	Minor Degree & Honour degree CST. B. Tech students from non-CST department can get Minor in CST that runs in parallel to the BTech degree. It allows a student to get basic competencies in computer science & technology thus expanding their horizons for a career that requires multidisciplinary skills. To obtain a Minor degree, the student should earn 18-20 additional credits after successfully completing 3rd sem to 8th semester. A student will receive BTech with Minor degree on successful completion of BTech courses offered in Computer Science & Technology. To obtain B. Tech CST Honours Degree, an additional 20 credits are required which demonstrates ability of Self Learning and/or research/ Entrepreneurship. The self-learning component can be completed through SWAYAM /NPTEL /any other approved MOOC (massive open online course) platform. The courses should be

	selected from the list of courses approved by the CST department. The research/ entrepreneurship component involves credits obtained by doing research in premier institutes such as IITs/IISc or at DSU. A student has to undertake these courses from III to VIII semester over and above the normal prescribed courses comprising of 160 credits. Students will receive B. Tech with Honours degree on successful completion of these courses. Minor degree and Honours degree courses were deliberated to the expert members. Committee members were pleased with the degree options available to students and suggested that advanced courses to be included in the Honours degree.
9	List of programs clearly indicating course, credit/elective in the CBCS program structure. Presented all course, credit/elective in the CBCS program structure to all the members.
10	Any other matter of academic concerns. Mr. Shivraj was pleased with the progress, pointing out that not only theory but also practical experiential learning is becoming part of the curriculum. In terms of experiential learning, he would prefer to see more emphasis on opensource rather than licensed products. Dr. Lakshmi Jagannathan suggested that the department identify students' interest in entrepreneurship right from the first year and should motivate and assist students in achieving their dreams and goals. She suggested to look at the programme structure at Gujarat Technology University for their approach to entrepreneurship and, if necessary, incorporate it into our own department program structure. Dr. Amit Bhat suggested soft skills such as interacting with customers/prospects in the field in identifying challenges/opportunities and solving the same leveraging next gen technologies, as well as implementing and receiving feedback from customers in ensuring the empathy factor is the primary fact of the solution development.

Overall discussion, suggestions and concluding remarks:

- Discussion on how CST is different from CSE department.
- Should provide lots of soft skills on the field training, apart from building product

right from idea/ concept stage involving product development life skills.

- Idea generation / gathering should be part of a repository. Also, the projects that are being developed should be allowed to be extended by the next following batches. Department provides GitHub, depending on interest they can work.
- DSU village adaption program can be leveraged by department students as part of course curriculum in building solution and implementing the same which might be good spark for startup.
- Try to have more interaction with startup eco system to know the do's and don'ts based on the sessions which will be given by the startup founders on their experience leading to success/ failure. Suggestions on having financial accounting as part of curriculum. Currently, department as part of lean startup course we are covering innovation accounting and we will look into the suggestion as appropriate.
- Suggestion has been made to start entrepreneurship development all across DSU to cater to the students across departments in providing opportunities for their respective entrepreneurship dream.
- Decision was taken to include Mooc courses, decided to provide entrepreneurial field work in minor project execution.
- Reviewed the number of credits semester wise for each course.
- List of Enclosures based on the Decisions/Resolutions/Recommendations submitted:

Agenda	Particulars
	BoS Meeting Invitation
1-10	Proceedings of the BoS Meeting

The meeting concluded with the chairperson thanking all attendees.

M. S. Ramesh
31/7/23

**Signature of Chairperson of BOS with Date
Chairperson**

Dept. of Computer Science & Technology
School of Engineering
Dayananda Sagar University
Kudlu Gate, Hosur Main Road,
Bengaluru - 560 114.



Dayananda Sagar University

School of Engineering

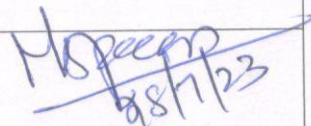
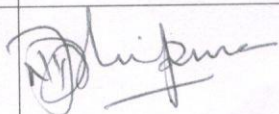
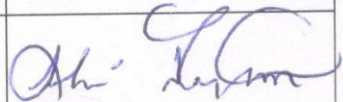
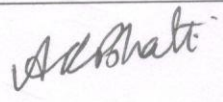
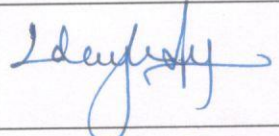
Innovation Campus, Kudlu Gate, Hosur Road, Bengaluru

Department of Computer Science & Technology

Date: 28/07/2023

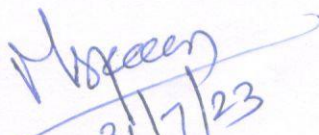
Attendance Sheet

BOS MEMBERS:

S. No.	Name	Position	Signature
1.	Dr. M Shahina Parveen	Chairperson	
2.	Mr. N. C. Sriraman	Expert Member from Industry	PRESENT ON ONLINE MODE
3.	Mr. Ishwar Sundararaman	Expert Member from Industry	PRESENT ON ONLINE MODE
4.	Mr. Neerav Joshipura	Expert Member from Industry	
5.	Dr. B Surendiran	External Academic Expert Member	PRESENT ON ONLINE MODE
7.	Mr. Shivraj	External Alumni Member	
8.	Dr. Lakshmi Jagannathan	Internal Member	
9.	Dr. Amit R Bhatt	Internal Member	
10.	Dr. Uday Kumar Reddy	Internal Member	
11.	Prof. Ramandeep Kaur	Internal Member	

DEPARTMENT CURRICULUM COMMITTEE MEMBERS:

S.NO	NAME	POSITION	SIGNATURE
1.	Prof. Baskar Venugopalan	Professor in Practice	
2.	Dr. D. Sudha	Associate Professor	
3.	Prof. Ramandeep Kaur	Assistant Professor	


3/17/23
Chairperson
Dept. of Computer Science & Technology
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Innovation Campus, Kudlu Gate, Hosur Road, Bengaluru

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BOS MEETING AGENDA

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10	Any other matter of academic concerns.

Mysreen
31/7/23

Signature of Chairperson

Chairperson
Dept. of Computer Science & Technology
School of Engineering
Dayananda Sagar University
Kudlu Gate, Hosur Main Road,
Bengaluru-560 114.



Dayananda Sagar
University

Chairman-CST <chairman-ct@dsu.edu.in>

INVITATION TO BOS MEETING from Department of Computer Science & Technology

Dr.M Shahina Parveen <chairman-ct@dsu.edu.in>

Sat, Jul 22, 2023 at 1:00 PM

To: NC Sriraman <ncsriraman@gmail.com>, Ishwar Sundararaman <ishwar@unsolved.xyz>, Neerav Joshipura <neerav@softnenterprise.com>, surendiran@nitpy.ac.in, Shivaraj B H <sbh69840@gmail.com>, ceo@derbifoundation.co, "Dr.A.Srinivas Dayananda Sagar University" <dean-engg@dsu.edu.in>, "Dr.Amit Bhatt" <provc@dsu.edu.in>, Ramandeep Kaur <ramandeep-ct@dsu.edu.in>
Cc: "Dr. KNB Murthy" <vicechancellor@dsu.edu.in>, Registrar DSU <registrar@dsu.edu.in>, Sudha D <sudha-ct@dsu.edu.in>

Dear **BoS Members and Invitees**,

"Greetings from the **Department of Computer Science and Technology**"

On behalf of the Department of Computer Science and Technology, I would like to thank you for your continued support and suggestion for improving the curriculum for our UG program.

As we have **re-constituted BOS Committee for CST department**, I would like to **welcome new Members of Board of studies**,

- 1.Dr. Surendiran from NIT Puducherry (External Academician)
- 2.Mr. Shivraj, Product Engineer (DSU Alumni) (External Alumni)
3. Dr. Amit R Bhatt, Pro-vice Chancellor, DSU (Internal Members)
4. Dr. Uday Kumar Reddy, Dean -SOE,DSU (Internal Members)
5. Dr. Lakshmi Jagannathan, CEO at DERBI Foundation, DSU (Internal Members)
6. Prof. Ramandeep Kaur Asst. Prof, Dept. of CST, DSU (Internal Members)

We are scheduling a **BOS meeting for the academic year 2022-23 on 28-07-23 (Friday) at DSU Kudlu gate campus 9.30 am to 1.00pm**. The department also provides an online MEETLINK for members who are not able to join physically. Please confirm your availability.

The agenda for the meeting is as follows:

1. Discussion on BTech CST (2020-24 batch) 7th and 8th semester scheme and syllabus.
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5. Department Vision, Mission, PEOs, PSOs.
6. Implementation of NEP 2020 & suggestions.
7. Courses on Employability, Entrepreneurship, Skill development

Venue: Meeting Room, III Floor,

Block B, DSU campus

Kudlu Gate, Hosur main road, Bangalore. Friday, July 28 · 9:30am – 1:00pm

Video call link : <https://meet.google.com/gde-qvjo-irk>

Or dial: (US) +1 401-589-1169 PIN: 905 495 459#

I request your valuable presence. Kindly confirm your attendance to the meeting. Shortly we will send a detailed scheme and syllabus for your kind reference.

Please find the attached BOS notification for your reference.

Thanking you

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with best Regards,

Dr. M SHAHINA PARVEEN

Professor & Chairperson - Computer Science & Technology

School of Engineering,

Dayananda Sagar University,

Innovation Campus, Kudlu Gate, Hosur Road,

Bangalore – 560 068, INDIA



Notification for BOS - B Tech- CST Dept dt 20.07.2023.pdf
446K



Dayananda Sagar
University

Chairman-CST <chairman-ct@dsu.edu.in>

INVITATION TO BOS MEETING from Department of Computer Science & Technology

Dr.M Shahina Parveen <chairman-ct@dsu.edu.in>

Wed, Jul 26, 2023 at 4:46 PM

To: NC Sriraman <ncsriraman@gmail.com>, Ishwar Sundararaman <ishwar@unsolved.xyz>, Neerav Joshipura <neerav@softnenterprise.com>, surendiran@nitpy.ac.in, Shivaraj B H <sbh69840@gmail.com>, "Dr.A.Srinivas Dayananda Sagar University" <dean-engg@dsu.edu.in>, "Dr.Amit Bhatt" <pro-vc@dsu.edu.in>, Ramandeep Kaur <ramandeep-ct@dsu.edu.in>, "Dr. Lakshmi Jagannathan" <ceo@derbifoundation.com>, Sudha D <sudha-ct@dsu.edu.in>

Cc: "Dr. KNB Murthy" <vicechancellor@dsu.edu.in>, Registrar DSU <registrar@dsu.edu.in>

Dear **BoS Members and Invitees** ,

"Greetings from the **Department of Computer Science and Technology**"

As we have scheduled **CST BOS meeting for the academic year 2022-23 on 28-07-23 (Friday) at DSU Kudlu gate campus 9.30 am to 1.00pm**. I once again invite you all to attend without fail. **Please find the below agenda and respective documents in attachment for the review and discussion.**

The agenda for the meeting is as follows:

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Venue: Meeting Room, III Floor,
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Kudlu Gate, Hosur main road, Bangalore. Friday, July 28 · 9:30am – 1:00pm

looking forward to valuable inputs and suggestions.

Thanking you

6 attachments

 **BTech CST- 2020-24-Scheme_Syllabus_V1.pdf**
437K

 **BTech CST-2021-25-Scheme_Syllabus_V1.pdf**
813K

 **minor degree.docx**
32K

 **honour degree.docx**
34K

 **BTech CST- 2022-26-Scheme_Syllabus_V1.pdf**
8057K

 **BTech CST-2023-27-Scheme_Syllabus_V1.pdf**
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