



DAYANANDA SAGAR UNIVERSITY

SCHOOL OF ENGINEERING

(A State Private University under the Karnataka Act No. 20 of 2013)

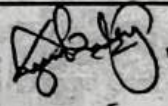
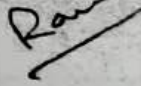


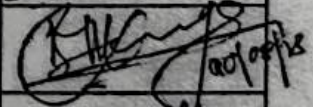
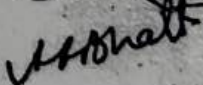
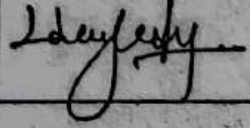
Approved By UGC & AICTE, New Delhi.



Department of Computer Science and Engineering (Cyber Security)

PROCEEDING OF BOS MEETING

School : School of Engineering
College : Dayananda Sagar University
Program / Department : B.Tech. Computer Science & Engineering (Cyber Security)
Mode of BOS Held : Offline
Date : 10th August 2023
Venue : Board Room, A-Block, City Campus, DSU, Hosur Road,
Bangalore
Time : 12:00 PM
Member Present:

Sl. No.	Name	Designation & Affiliation	Signature
1.	Dr. Kiran B. Malagi	Chairman, Dept. of CSE (Cyber Security), SoE, DSU, Bangalore	 10-8-23
2.	Dr. Ravi Mittal S.	BoS Member, Former Professor, IIT Madras, Visiting Professor IIT Mandi and IIT Goa.	
3.	Dr. Udayshankar Puranik	BoS Member, Director, AI and Cyber Security, MGI, USA and Science Writer.	
4.	Mr. Sajeev Nair	BoS Member, Cyber Incident Response Team (CIRT), Accenture, Bangalore	
5.	Dr. M.K. Banga	BoS Member, Dean Research, Dayananda Sagar University	
6.	Dr. Amit R Bhatt	Invitee, Pro Vice Chancellor, DSU, Bangalore.	
7.	Dr. Udaya Kumar Reddy K. R.	Invitee, Dean, SoE, DSU, Bangalore.	



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8.	Dr. Durbadal Chattaraj	BoS Member, Associate Professor, Dept. of CSE (Cyber Security), SoE, DSU, Bangalore.	 10.08.2013
9.	Prof. Ranjima P	Convener, Assistant Professor, Dept. of CSE (Cyber Security), SoE, DSU, Bangalore.	 10/8/23
10.	Prof. Naveen Kulkarni	Invitee, Assistant Professor, Dept. of CSE (Cyber Security), SoE, DSU, Bangalore.	 10/8/23
11.	Prof. Sharanabasappa Tadkal	Invitee, Assistant Professor, Dept. of CSE (Cyber Security), SoE, DSU, Bangalore.	 10/8/23

Members Absent : NIL

Sl. No.	Name	Designation & Affiliation
-	-	-
-	-	-
-	-	-
-	-	-

CHAIRMAN/HoD
Department of CSE- Cyber Security Program
School of Engineering
Dayanand Sagar University
Kudlu Gate, Hosur Main Road
Bangalore - 560114

Date: 10th August 2023

Agenda Points for BoS Meeting

Sl. No.	Details
1.	Opening Remarks and Presentation on Introduction to CSE(CY) Department on Student Strength, Faculty list, Faculty Engagement and Result Analysis. Discussion Vision, Mission, POs, PEO and PSO - Feedback.
2.	Discussion on short, medium and long-term goal.
3.	Stakeholder Feedback on curriculum: Students, and Industry
4.	Discussion on Minor and Honours degree.
5.	Comparison study on 2020-24, 2021-25, 2022-26 and 2023-27 schemes.
6.	Discussion on 2020 Scheme for 7th and 8th Semester B. Tech. CSE (Cyber Security) and approving the same as per Choice Based Credit System (CBCS).
7.	Discussion on 2021 Scheme for 5th, 6th, 7th and 8th Semester B. Tech. CSE (Cyber Security) and approving the same as per Choice Based Credit System(CBCS).
8.	Discussion on 2022 Scheme for 3rd, 4th, 5th, 6th, 7th and 8th Semester B. Tech. CSE (Cyber Security) and approving the same as per Choice Based Credit System(CBCS).
9.	Discussion on 2023-24 Scheme for 1st and 2nd Semester B. Tech. CSE (Cyber Security) and approving the same as per Choice Based Credit System(CBCS).
10.	Discussion on the Syllabi of 7th and 8th semester for 2020-21 scheme, 5th, and 6th semester for 2021-22 scheme, 3rd and 4th Semester for 2022-23 scheme and 1st and 2nd semester for 2023-24 scheme.
11.	Suggestion on Curriculum alignment with department Vision, Mission, POs, PEO and PSO.
12.	Discussion by various stakeholders/Members regarding NEP/SEP implementation.
13.	Overall suggestions and directions on schemes and syllabus.
14.	Concluding Remarks.

Discussions and Deliberation by BoS Members

Agenda | **Discussions**

1 Opening Remarks and Presentation on Introduction to Computer Science and Engineering (Cyber Security).
 Dr. Kiran B. Malagi, Chairperson, BoS, introduced the Department of Computer Science and Engineering (Cyber Security) to the BoS Members. He discussed on total intake, number of students admitted, faculty list, faculty engagement and result analysis, discussion on short, medium and long-term goals. Also, he presented the department vision, mission, POs, PEOs and PSOs. The Choice Based Credit System (refer Fig 1 and Fig 2) that has been effectively incorporated in curriculum was also discussed.

With this background, the floor was open for discussion. The departmental BoS members and other in-house faculty members namely, Dr. Durbadal Chattaraj, Prof. Naveen Kulkarni and Prof. Sharanabasappa Tadkal enquired several questions regarding curriculum, pedagogy, teaching and learning process, carrying out the internship and projects and evaluation procedures etc.

Finally, Prof. Ranjima P., BoS convenor, presented all the four-year schemes and syllabus.

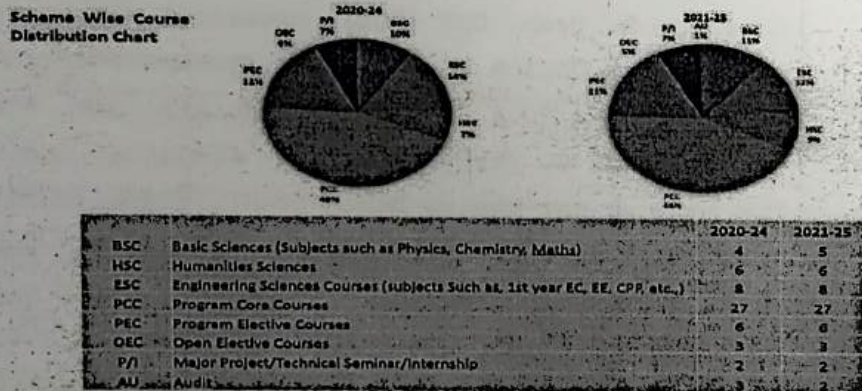


Fig 1: CBCS comparison on 2020 and 2021 Schemes

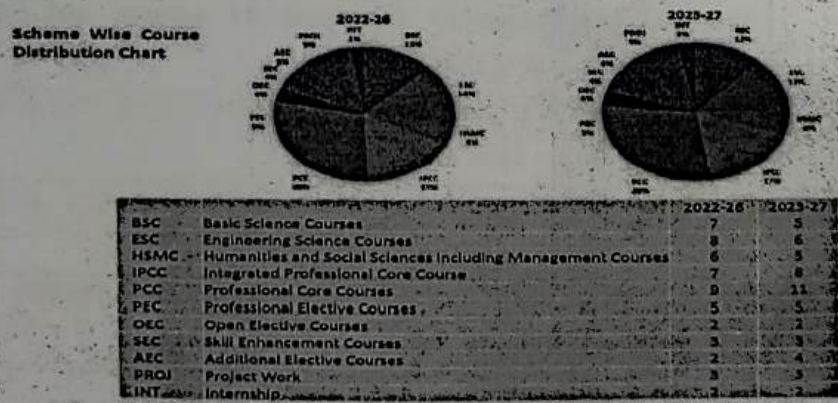


Fig 2: CBCS comparison on 2022 and 2023 Schemes

Stakeholder Feedback on curriculum: Students, Academia and Industry

The inputs from students on curriculum were collected. In this regard, the major concern in terms of giving opportunity for students to enhance their critical thinking skills were discussed. The analysis has been given in Fig. 3 for each question.

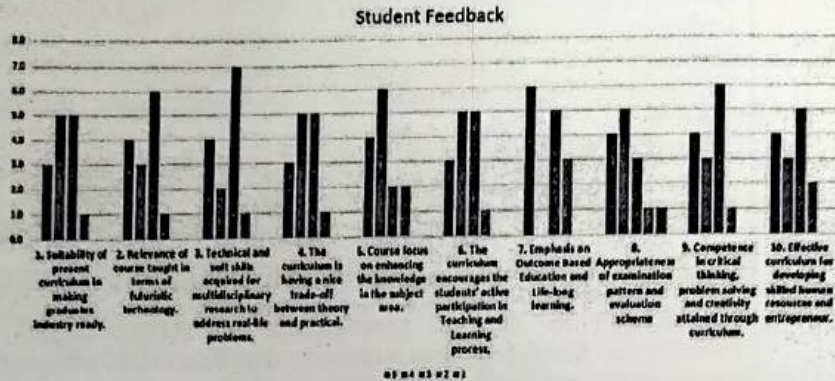


Fig 3: Students feedback on curriculum

The faculty members of CS Cluster and the management of DSU provided their valuable inputs while preparing the curriculum. Based on those guidelines only, the faculty have prepared the scheme and syllabus.

The Department of CSE (Cyber Security) is in constant touch with experts from industries like TCS, Tata Elxsi, TechbyHeart etc. Meetings are arranged in regular intervals of time and feedback on the curriculum have been collected. The summary of the same is given in Table 1.

Table 1: Industry inputs and corresponding justification on curriculum

Sr No.	Inputs to include the following concepts	Justification given by Department
1	Windows Security	Similar Course: Operating System Security
2	Linux Security	
3	Mobile Application Security	Need to include in 2023-27 scheme
4	DevSecOps	
5	Governance, Risk and Compliances	Similar Course: Cyber Security Programs and Policies, Information Security and Risk Management

Discussion on Innovation and Critical Thinking: The following points were recommended by external members of BoS as well as Pro Vice Chancellor

1. Encourage and Motivate faculty as well as students to involve in critical and innovative thinking.
2. Both faculties and students collaboratively need to work hard towards critical and innovative thinking.

[ATR:] Finalize the policies and regulations in terms of industrial training, SDPs, webinars, and project works, FDP organization on critical thinking, etc.

Includes said events in regular time table or academic calendar.

Example given by Pro Vice Chancellor: Visualize any C, C++, Java, JS, Python Code and try to convert it into algorithm or pseudo code and perform a different implementation.

3

Discussion on Minor and Honours degree.

Dr. Kiran B. Malagi presented the AICTE model curriculum for awarding Honours and Minors degree. It was amended that the proposed model can be accepted provided Teaching and Learning approach is through MOOC courses as well as offering courses by in-house faculty/industrial experts. The proposal comprised of:

In Computer Science and Engineering (Cyber Security), for the Scheme 2022-23, The total number of credit point: 164 and additional 16 credits will make it 180 credits points.

Note: Four Courses each of four credits has to be accomplished by a student in order to get Honours Degree.

Table 2: Courses suggested for B.Tech. with Honours Degree

Courses	MODE of Delivery
C programming and Assembly programming	MOOC/Physical Classes
Image Processing Using Python	MOOC/Physical Classes
Linux Operating System	MOOC/Physical Classes
Artificial Intelligence using Prolog Programming	MOOC/Physical Classes
Introduction to information technology	MOOC/Physical Classes
Natural Language Processing	MOOC/Physical Classes
Computer Vision	MOOC/Physical Classes

In Addition to the Regular B. Tech Degree is a student earns 18 credits then she/he will get a Minor Degree.

Table 3: Courses suggested for B.Tech. with Minors Degree in Cyber Security

Sl. No.	Course Code	Title	L	T	P	Credits
1	CBS-01	Information Theory for Cyber Security	3	0	2	4
2	CBS-02	Data Encryption	3	0	2	4
3	CBS-03	Steganography and Digital Watermarking	3	0	0	3
4	CBS-04	Security Assessment and Risk Analysis	3	0	0	3
5	CBS-05	Database Security and Access Control	3	0	2	4
Total			15	0	6	18

Course Coding Nomenclature:

- CBS denotes that Minor Degree in "Cyber Security".
- 01, 02, 03, 04 and 05 are course order They have to be taken, if taken in different semesters. Multiple Course may also be taken in the same semester (if required)

Discussion:

- While discussion on B. Tech. with Minor degree program, Pro Vice Chancellor suggested instead of relying on outsourced-based courses (or MOOC courses) completely, we should follow 50-50 principles. More precisely, student can opt fifty percent courses from MOOC and another fifty percent the university will offer.
- Pro Vice Chancellor Dr. Amit Bhatt also added that such kind of a setting will provide a perfect load-balancing of the overall courses, choice-based subject selection provides better transparency. Pro VC also suggested to engage students who are regular and performing well in academics and related activities only with the MOOC courses rather the slow learners.
- Dr. Ravi Mittal S conveyed that there are no perfect assessment or evaluation processes in few of the MOOC courses like Coursera, Udemy, SimpliLearn, etc. Rather student can opt for the National Programme on Technology Enhanced Learning (NPTEL) / Study Webs of Active-Learning for Young Aspiring Minds (SWAYAM) or Foreign Universities (UC, CMU, MIT, Stanford, etc.) courses. Prof. Mittal also recommended to provide Minor subjects as specialization (secure coding with hands on, network security basics, etc.) which are very fundamental in nature.

- Mr. Udayshankar Puranik suggested, instead of Regular faculties sometimes it is good to hire Guest, Adjunct, and Industry Experts (Product-based) for delivering the cutting-edge technologies to the students with hands on. Mr. Puranik also told before freezing the Minor subject, consult and handshake with other departments based on their student's competency and skills.
- According to NEP-2020 Guidelines, to avail B.Tech. with Honours degree, students need to earn extra 18 credit points. Currently, the overall credits points of all B.Tech. courses are between 162 to 164 credit points. In this connection, Dr. Ravi Mittal suggested instead of going for pre-defined AICTE recommended courses: few basic courses like "Applied Cryptography", "Security Operations", "Network Security", "Cyber Security Fundamentals", "Secure Programming" etc. the Dept. of CSE (Cyber Security) can adopt.
- Mr. Udayshankar Puranik insisted that instead of "AI using Prolog Programming" it would be better to adopt "AI using Python Programming". Dr. Ravi Mittal also suggested to apply the stated policies for the Minor courses also.

4 **Comparative study on 2020-24, 2021-25, 2022-26 and 2023-27 schemes.**

The department has considered five parameters, namely, change in title, repositioning of the courses, credit points alterations, amalgamation of courses, and change in the contents in the courses, to evaluate the scheme and syllabus. This input was very much useful for BoS members to come up with an overall view of various schemes and syllabus.

Table 4: Scheme wise Credits Point Comparison

SCHEME	SEMESTER							TOTAL
	I & II	III	IV	V	VI	VII	VIII	
2020-24	41	24	25	25	21	12	12	160
2021-25	44	23	25	24	22	12	12	162
2022-26	42	20	20	24	23	21	14	164
2023-27	40	20	20	24	23	21	14	162

Table 4: Scheme wise Credits Point Comparison

Agenda	2020-24	2021-25	2022-26	2023-27
Total Credit	160	162	164	162
New Courses Included	-	Full Stack Development, Digital Image Processing	Block Chain Technology, Big Data, Fundamentals of Economics, Secure Programming	-
Number of Professional Elective	19	19	20	20
Number of Open Elective	30	30	30	30
SKILL ENHANCEMENT COURSES	-	-	1.Introduction to Cyber Security. 2.Introduction to Linux Programming 3.DevOps with Full Stack Develop 4.MOOC Course: Software Testing, 5.Network Monitoring and Diagnosing Tools, 6.Android Application Development	1.Introduction to Cyber Security. 2.Introduction to Linux Programming 3.DevOps with Full Stack Develop 4.MOOC Course: Software Testing, 5.Network Monitoring and Diagnosing Tools, 6.Android Application Development
EXISTING COURSE UPDATION	-	Title Change (Engineering Mathematics, Environmental Science, Technical Communication, etc.), Credit Change (Technical English, Kannada) Repetition (Software Project Management, Cryptography and Network Security, etc.) Content change - Nil Amalgamation of Courses - Nil	Title Change (Fundamentals of Programming , Constitution of India and Professional Ethics, Basic Electronics, etc.) , Credit Change(C Programming for Problem Solving, Constitution of India and Professional Ethics, Basic Electronics) , Repetition (Software Project Management, Cryptography and Network Security, etc.) Content change (Linear Algebra & Differential Equations, Basic Electrical Engineering , etc.) & Amalgamation of Courses (Engineering Graphics and Design and Design Thinking)	Title Change - Nil, Credit Change(Engineering Chemistry, C Programming for Problem Solving, etc.) Repetition - Nil, Content change - Nil Amalgamation of Courses (Electrical Engineering and Mechanical Engineering g)

5, 6, 7, 8

The Schemes of all the academic years was presented. The BoS Members gave their general observations as follows:

- BoS members opined that making CSE and ECE curriculum common in Second year in 2022-23 scheme is not appropriate. As program name suggest Computer Science and Engineering (Cyber Security), The students are not learning any course pertaining to this specialization till 5th semester. The students will not get that belongingness and they will not be able to be proud of what discipline they have chosen.
 - a. It was recommended to keep the courses contents specific to what the graduating students are expected to do in the industry. Tools and techniques are volatile. But foundation courses have to given more emphasis.
 - b. If Second year courses are common for all branches, then there will be no scope or freedom to conduct department specific co-curricular and extra-curricular activities enhancing students' capabilities.
 - c. The courses like "Embedded System" can be given as an elective. Instead of that introduce a course which is department specific.
 - d. No courses should be taught without addressing real time applications.
 - e. Be careful while choosing a course for which a credit needs to be assigned.

- Dr. Ravi Mittal S asked to remove "Machine Learning for Cyber Security" course from the regular curriculum. Rather she/he encourage to adopt few courses like Coding Security or Secure Coding Principles with extensive hands on.
- Dr. Ravi Mittal S asked several queries as given under:
 - Experts' availability to handle the Courses?
 - Are proper labs available for specific courses or not?
 - In-house faculties are competent to take the course or not?
 - Do we have flexibility to arrange a guest/visiting faculty for this kind of course?

The above aspects have to be addressed before we introduce any new courses.

- Some of the courses are essential from the industry point of view. But including them in curriculum will be very much difficult. The Cyber Security domain is very much new to academia and even to the industry. In this regard,
 - a. Course content preparation, Train the trainers and partial delivery of such emerging trends is essential from industry side.
 - b. Whenever the Industry introduce a course, it has to be ensured that the technology well taught with sufficient hands-on facilities.
- In this direction the introduction of courses like "Automotive Security" is appreciated, however justifying the importance of the same needs lots of exercise. So, industry should involve.
- Every external expert of BoS suggested to remove all the redundant courses like "Linux Operating System" from the regular curriculum.
- Dr. M. K. Banga, Dean-Research asked to propose an open elective course for the entire DSU.
- Switching or repositioning of few advanced courses (like "Blockchain Technology") are required in the subsequent academic years.
- Dr. M. K. Banga, Dean-Research asked to collaborate with other CS-cluster members for smoothly running the professional courses.
- Every external expert of BoS told to reduce the number or complexities of the courses [in terms of depth, pedagogical practices adopted in teaching etc.] while designing the Professional Elective Courses (PECs).
 - a. The Course "Introduction to Computer Network" in 3rd semester of 2022 scheme, is to be considered in this case as Contents are heavy and it may need some prerequisite knowledge of other courses also.
 - b. Remove "OOps with Java" and replace it with "Cloud Computing", "Cloud Security", "Mobile Computing" (Fifth Semester).

- c. Remove "Full Stack Development" course from the third semester and place it to higher semester.
- d. Remove "Proactive Security Tools" course and introduce new course "Security Operations Using Open-Source Tools" or introduce "Security Monitoring" course.
- e. Include Security Policy, Forensic Policy and Security Standard writing principles into "Cyber Security Program and Policies" course.
- Mr. Udayshankar Puranik suggested to reduce the content of Module-5 in "Cyber Forensic and Cyber Law" subject and asked to include GDPR, Data Protection Law in India, ISO-27001, HIPPA (Information Security). He also suggested to includes few example and use cases in Module-1 in the same subject.
 - Instead of teaching "Information Security and Risk Management" in the higher semester bring it to lower semester. Rename this subject as "Risk Management".
 - No amalgamation of two courses is allowed in the 1st semester of 2023-24 scheme like "Electrical and Mechanical Engineering".
 - Introduce new courses like "Environmental, Social, and Governance" or "Sustainable and Green Computing" instead of environmental studies.
 - Title change of "Wireless Sensor Network Security" is required. Rename it as "IoT Security" or "Wireless Security".
 - Introduce "Mobile Computing" or "Mobile Communication" course in V Semester.
 - In third semester, "Introduction to Cyber Security" or "Introduction to Cyber Physical Systems" course is need to be introduced as Skill Enhancement Course.
 - Repositioning of "Liberal Studies" courses is required.
 - Mr. Sajeev Nair suggested to introduce "Operating System", "Computer Network", "Cyber Security" in third and fourth semester. He also suggested to introduce "Security Operation" where DevOps and DevSecOps can be taught as two different parts of the same course.
 - In 2022-2026 scheme, "Blockchain" course can be repositioning to higher semester and "Software Engineering" subject needs to shift to six or seven semesters. Mr. Udayshankar Puranik recommended to change the title of "Software Engineering" subject as "Project Management for Cyber Security".
 - "OOps with Java" can be repositioned in the Skill Enhancement Program.
 - Repositioning "Cryptography and Network Security" course to Semester-V.
 - Introduce new course called "Cloud Computing in Security" in VI Semester.
 - Instead, "Proactive Security Tools" introduce a new course called "Open-Source Security Tools in Cyber

	<p>Security".</p> <ul style="list-style-type: none"> • Instead of "Biometric Security", "Hardware Security" need to be introduced. • Rename the "Automotive Security" course to "Mobility Security".
9	<p>Discussion on the Syllabi of 7th and 8th semester for 2020-21 scheme, 5th and 6th semester for 2021-22 scheme, 3rd and 4th Semester for 2022-23 scheme and 1st and 2nd semester for 2023-24 scheme.</p> <p>The Scheme and Syllabus was shared to all the BoS members on 6th August 2023, through email. A detailed study was made by each member and inputs were given.</p> <ul style="list-style-type: none"> • BoS opined that "Computer Networks" course contents to be designed in such way that it should be feasible to be taught by a faculty. Also, students should not feel burdened as they will be learning some important courses along with this in third semester. Effective Teaching and Learning, results should be taken care. • "Operating System" needs to taught for both Windows and Linux. As Cyber Security students have to work with Kali Linux, making them aware about the Linux commands is very essential. • Mr. Udayshankar Puranik suggested to reduce the content of Module-5 in "Cyber Forensic and Cyber Law" subject and asked to include GDPR, Data Protection Law in India, ISO-27001, HIPPA (Information Security). He also suggested to includes few example and use cases in Module-1 in the same subject. • "Discrete Mathematical Structures" in 2022-23 in 3rd semester, we need to include Propositional and Predicate Logic components, include Group theory and Rings which are essential for the Cyber Security. • Courses like "Embedded System" require prerequisite knowledge of OS, RTOS, Linux Kernal Programming etc. So, to introduce this course in 2nd year itself is not advised. It can be repositioned as an elective course in higher semester.
10	<p>Suggestion on Curriculum alignment with department vision, mission, POs, PEO and PSO.</p> <p>After deliberation on curriculum for about 3 hours and 30 minutes the BoS members expressed their satisfaction on the efforts of the faculty in designing the curriculum. Sufficient care has been taken to prepare the curriculum keeping it aligned with PSOs, POs, PEOs, mission and vision statements of the department and institution.</p>

11	<p>Discussion by various Stakeholders/Members regarding National Education Policy (NEP)/State Education Policy (SEP) implementation.</p> <p>The external BoS members expressed that the care has been taken to ensure NEP/SEP guidelines adoption in curriculum design. Still there is a lot of discussion going on regarding the effective implementation of these policies, Nationwide. There is a scope for improvement once clarity is obtained regarding the same.</p>
12	<p>Overall suggestions and directions on schemes and syllabus.</p> <p>A. Discussion on Best Pedagogy and Teaching and Learning Practices at Department of CSE (Cyber Security), SoE, DSU</p> <ul style="list-style-type: none">• Prof. M. K. Banga, Dean Research had recommended the amalgamation of Basic Science and Engineering Faculties to take up together few applied interdisciplinary courses. <p>B. Discussion on the "Feedback of Industry Professionals Slides"</p> <ul style="list-style-type: none">• Prof. M. K. Banga, Dean Research, suggested to focus on the topic of "Platform, Data and Application Security" instead of "Operating System Security".• Mr. Udayshankar Puranik suggested to modify the course name "Mobile Application Security" to "End-point Security" or "Telecom Security". He also suggested to include such subjects in the Choice-based credit course.• Mr. Udayshankar Puranik recommended that instead of Proactive Security Tools course we can take up few values added courses like "Security Policy for Enterprise", "Basic Understanding of Operating Systems" and "Computer Networks".• Mr. Sajeew Nair suggested that Job perspective-align courses like "Security Operations and Cyber Defence", "Risk Management", "Security Control and Auditing", "Security Policy", and "Application Security" (Bluetooth and Embedded Security) are the better choices rather than "Windows Security" and "Linux Security" courses. <p>C. Discussion on the Final Year Project and internships.</p> <ul style="list-style-type: none">• BoS Members suggested to arrange few industry-oriented problems, designing/making new prototype, Incubation Centre (IC) establishment in collaboration with Industries, Interact with Industry experts, encourage projects with industry collaboration.

- BoS Concerns on Internship: Encourage students to take up internships in order to enhance their awareness about working environment in the industry. It is advised that an expert from Industry will be the mentor for both internship as well as any project in collaboration with the industry. The evaluation is done by panel members comprising of personnels from Industry and academia ensuring the students have contributed to the problem statement in a justifiable way.

D. Discussion regarding Hands on or Lab Experiment for Cyber security courses: Recommended by External members of BoS as well as Pro Vice Chancellor.

- Isolate a sub-network from the on-premises college network so that student can practice ethical hacking, penetration testing, vulnerability assessment, and other related staffs.
- Using the said facilities students can proactively measures the cyber security attacks, play with security incident and event management, analyse end-point protection principles.

Justification: The Chairman, Department of CSE (Cyber Security) informed the BoS Members that a separate Command and Control(C&C) Server is being procured for the above said purpose.

E. General Discussion:

- The Vice Chancellor, DSU suggested that individual faculties should have determination towards,
 - a. Skill enhancement
 - b. Application mindsets
 - c. Market orientation
- In addition to this, the Vice Chancellors also given assurance regarding Faculty enrichment programs in collaboration with renowned Industry for one to two months. All the external BoS members suggested that one or two months training may not be sufficient for in-house faculties. It was decided to bring different Industry professionals on campus and give training for the faculties.
- All the external BoS members recommended that the "Technical English", "C Programming for

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Problem Solving", "Python Programming for Problem Solving", "OOps with Java" courses need not be considered as credit courses, and it can be offered as audit course only.

- Dr. Ravi Mittal asked Vice Chancellor to invite Director, IIT Mandi to train faculties for curriculum design.
- Mr. Sajeew Nair assured to help for setting up a Cyber Forensic Lab at DSU.
- The Dean, SoE, Dr. Uday Kumar Reddy, thanked all the BoS members for accepting the invitation and coming physically all the way to DSU. The discussions were useful and critical inputs are given. Sir asked the chairman of the department to incorporate the suggestions to the best of student's interest.
- Discussion on Best Pedagogy and Teaching and Learning Practices at Department of CSE (Cyber Security), SoE, DSU, Prof. M. K. Banga, Dean Research recommended the amalgamation of Basic Science and Engineering Faculties to take up together few applied interdisciplinary courses.

13 **Concluding Remarks**

Dr. Kiran B. Malagi, Chairperson BoS, Dept. of CSE (Cyber Security), SoE, DSU, thanked all the Members of BoS and all the invitees for their presence and valuable suggestion on Curriculum.

Without the support of Dayananda Sagar Institute management, Dr. K.N.B. Murthy, Vice chancellor, DSU, Prof. Janardhan and Dr. Amit R. Bhatt Pro-VCs, DSU, Dr. Puttamadappa C., Registrar, DSU, Dr. Udayakumar Reddy K. R., Dean, SoE, DSU, the meeting wouldn't have happened. The department chairman and faculty are very much thankful to all.

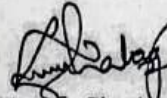
Dr. Kiran B. Malagi appreciated the efforts of the curriculum Design committee of the department including Dr. Durbadal Chattaraj, Prof. Ranjima P., Prof. Naveen Kulkarni, Prof. Sharanabasappa Tadkal, Prof. Manjula M., and Prof. Vedashree L. V. and Office assistant Mr. M.S.N. Murthy for all the cooperation. The chairpersons of all the CSE Clusters and faculty have contributed in providing valuable feedback in designing the curriculum.

Dr. Kiran B. Malagi, acknowledged the outcome of the BoS meeting and will be sharing the Minutes of Meeting with all the members. He assured that the Action Taken Report also will be prepared.

Finally, the Minutes of Meeting is forwarded to the Academic Council of Dayananda Sagar University, and we are looking forward for the positive response.

- List of Enclosures based on the Decisions or Resolutions or Recommendations submitted:

Sl. No.	Particulars
1.	BoS Approval
2.	Agenda of BoS Meeting
3.	Invitation to BoS members
4.	Minutes of Meeting

 12.8.23

Signature of Chairperson BoS, with Date