Department of Computer Science and Engineering,

SDMCET, Dharwad-580002.

Proceedings of BOS Meeting

Date: 11th March, 2017

CSE Dept., SDMCET

Tel 0836-2447465 **Fax** 0836-2464638 Dhavalagiri, Dharwad-580 002

www.sdmcet.ac.in cse.sdmcet@gmail.com

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Introduction

Scope and Objectives

The committee titled Board of Studies (**BOS**) is established under the guidelines issued by Academic Council (AC) and hence is an authorized academic body in deciding the curriculum of this this department. All activities must be in line with the resolution taken by this body and Department Undergraduate Committee (DUGC) must ensure the strict implementation of the decisions stated in this report.

The resolution presented here are the base line on which the entire academic activities of this department is to be scripted.

Committee Members



|| Om Shree Manjunthaya Namah ||



h.No.:2447465 Extn:8126

[Competence, Commitment and Team work]

Date: 11-03-2017

www.sdmcet.ac.in/cse

BOS 2017

Sl. No	Name and Address with Contact No.	Role and Designation	Signature with Date
1	Dr. S.M.Joshi, Professor and Head, Dept. of CSE, SDMCET, Dharwad. Mobile:9036079402 E.mail:joshree@gmail.com	Chairperson	(D)
2	Dr. U.V. Wali, Professor, Dept. of CSE, KLECET, Belgaum. Mobile: 9972638499 E.mail: udaywali@rediffmail.com, uday.wali@gmail.com	Expert nominated by the honorable Vice Chancellor, VTU.	
3	Dr. Ashok Kumar A. R Prof. Dept. of CSE. RVCE, Bangalore Mobile: 8497042779 Bangalore E.mail: ashok_biet@hotmail.com	Expert in the subject from outside the college nominated by the Academic Council.	D.C. 11-03-11
4	Prof. Girish Aithal, Senior (1989) Alumni – Industry, Founder member, Consultant, Manipal Academy of Global Education Partner, 4 th Edge, IT Solutions, Mangalore Mobile: 9740160986 E.mail: Gaithal@gmail.com	Expert in the subject from outside the college nominated by the Academic Council.	Alex
5	Mr. Vinayak Pawar, Chief Technology Officer, Krishagni Solutions Pvt. Ltd., 202, Chinmay Apartment, Model Colony, Shivaji Nagar, Pune, Mobile: 9845054421 E.mail: vinayak.pawar@krishagni.com	Representative from Industry / Corporate Sector / Allied Area relating to placement nominated by the Academic Council.	
6	Santosh Chimmalagi, Manager - Sales Strategy & Customer Analytics at STAR TV India,Bengaluru Mobile: 9740075155 E.mail: santosh.chimmalgi@gmail.com	Alumnus nominated by the Principal.	11/03/2017

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Proceedings of BoS-2017 Meeting

Om Shree Manjunthaya Namah 22/10/2000 PARTMENT OF COMPUTER SCIENCE AND ENGINEERING, SDMCET, DHARWAD-2				
	7465 Extn: 0126		w.sdmcet.ac.in/cse	
Sl. No	Name and Address with Contact No.	Role and Designation	Signature with Date	
7	Dr. U.P.Kulkarni, Professor, CSE Dept., SDMCET, Dharwad, Mobile: 9448915301 E.mail.:upkulkarni@yahoo.com	Internal member nominated by the Academic Council	- Proven	
8	Prof. J.V.Vadavi, Associate Professor, CSE Dept., SDMCET, Dharwad, Mobile: 9448001249 E.mail.: jvvadavi@gmail.com	Internal member nominated by the Academic Council	July 2	
9	Dr. S. B.Kulkarni, Assistant Professor, CSE Dept., SDMCET, Dharwad, Mobile: 9880313022 E.mail.: sbkulkarni_in@yahoo.com	Internal member nominated by the Academic Council	(A)	
Femt 10	Prof. G. M. Shivanagowda, Assistant - Defessor , CSE Dept., SDMCET, Dharwad, Mobile: 9740109113 E.mail.:shivana.gowda@gmail.com	Internal member nominated by the Academic Council	Gharr	
11	Mr. Anand Vaidya Faculty Member, Dept. of CSE SDMCET, Dharwad. Mobile:9036889732 Email:vaidya.anand@rediffmail.com	Internal Member	ferst.	
12	Mr. R.N.Yadawad. Faculty Member, Dept. of CSE SDMCET, Dharwad. Mobile:9164685527 Email:rnyadawad@gmail.com	Internal Member	Bedred	
	Mr. Ranganath Yadawad Faculty Member, Dept. of CSE SDMCET, Dharwad. Mobile:9448049909 Email:rgyadawad@rediffmail.com	Member Secretary	-	

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Agenda

Action Taken Report (From last BOS):

SI. No	Description of the item to be added	Action taken
AR1	Proposal to introduce a course " Unix Shell Programming " (15UCSC304) for 3 rd Semester	Implemented
AR2	Proposal to shift a course"OperatingSystems" $(15UCSC404)$ to 4^{th} Semester from 5 th Semester.(Change of structure from3-0-2 to 4-0-0).	Implemented
AR3	Retaining the course "Microcontroller", instead of "Microprocessor".	Implemented
AR4	ProposaltoIntroduceelectives"AgileProgramming"and"MobileApplicationDevelopment"	Offered, but not opted by students.
AR5	Multi-level mapping of course outcomes to program outcomes.	Implemented

AR6	Result Analysis	Inferences have been drawn.
AR7	<u>Placements</u>	Department has taken initiative to give additional training to further augment the placements.
AR8	National Conference titled NCACSWBDA 2016 was held by the Depatment in the month of Oct 2016. 85 papers were recieved, 66 accepted, 65 presented. Subsequently published by International Journal of Software Engineering and Soft Computing.	

Reporting Items:

Sl. No	Description of the Reporting Item	
R1	Implemented multi-level mapping of course outcomes to program outcomes as per new PEOs/POs and PSOs specified by OBE based education of National Board of Accreditation. Ref: Annexure-1	
R2	Scheme of 2015 – 2019 Batch.	
R3	Result Analysis and Attainment of Outcome. Ref: Annexure-2	
R4	Placement Details. Ref: Annexure-3	

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Decision Making Items: Additions.

Sl. No	Description of the item to be added	Justification	Resolution
DA1	New Scheme and Syllabus for the batch 2015-2019 and course details for 5 th and 6 th semester of this batch. Ref: Annexure-4	Routine revision and	Approved
DA2	Introduction of UNIX Systems Programming in 4- 0-0 structure of 4 credits for 5 th semester. Ref:Annexure-5	Exposure to UNIX environment and industry demand.	Approved

Decision Making Items: Modifications.

Sl. No	Description of the item to be added	Justification	Resolution
DM1		To incorporate the concepts related to Unix System Programming.	Approved
DM2	Restructuring all the elective courses of 6th to 8 th semester, from 4-0-0 to 3-0-0 and changing the credits from 4 to 3 .		Approved
DM3	Shifting of Industry Oriented Programming Practices from 5 th Semester to 6 th Sem	Effective delivery of the course enabled by the completion of pre-requisite courses like software engineering, Database Management Systems, Object Oriented Programming in the	Approved with some modifications to contents of the

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Proceedings of BoS-2017 Meeting

		previous semesters	
DM4	Shifting of Internship / Practical Training from 6 th Semester to 7 th Semester.	Duration required for Internship is 2 months, which is difficult to get between 5 th Semester and 6 th Semester. Effective utilization of Summer Vacation.	Approved
DM5	Making of elective course "Internet of Things" (7 th Semester – 11UCSE) as an open elective.	To give exposure to other	Approved

Mr. R.G.Yadawad Member Secretary, CSE Dept., SDMCET, Dharwad April 11, 2017

Department of Computer Science and Engineering,

SDMCET, Dharwad-580002.

Proceedings of BoS Meeting

Date: 09th June, 2018

CSE Dept., SDMCET

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Proceedings of BoS-2016 Meeting

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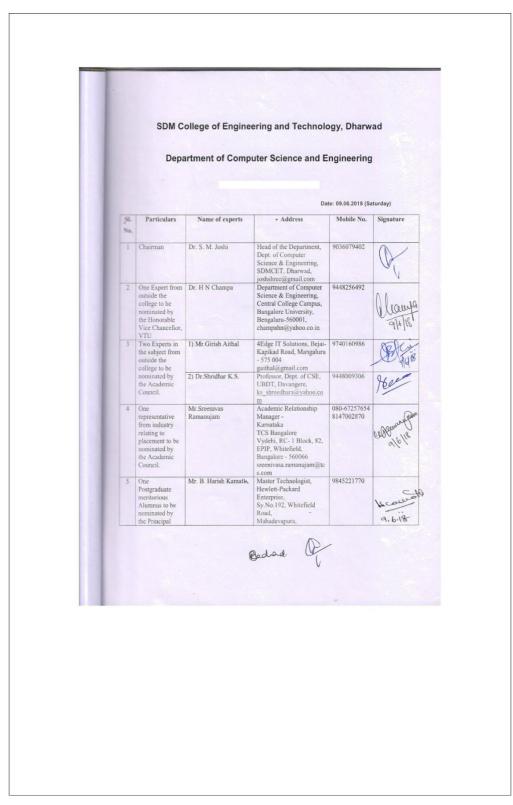
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Introduction

Scope and Objectives

The committee titled Board of Studies (**BOS**) is established under the guidelines issued by Academic Council (AC) and hence is an authorized academic body in deciding the curriculum of this department. All activities must be in line with the resolution taken by this body and Department Undergraduate Committee (DUGC) must ensure the strict implementation of the decisions stated in this report.

Committee Members



Board of Studies -"2018

SL No.	Particulars	Name of experts	Address	Mobile No.	Signature
			Bengaluru, Karnataka 560048 harish.kamath@hpe.com		
6	Five Faculty members at different levels covering	1) Dr. U. P. Kulkarni	Professor, Dept. of CSE, SDMCET, Dharwad upkulkarni@yahoo.com	9448915301	85 H
o	different specializations to be nominated by the Academic	2) Prof.J.C.Karur	Professor, Dept. of CSE, SDMCET, Dharwad jck1965@gmail.com	8971212216	Forti 9/6/2
	Council.	3) Prof J. V. Vadavi	Associate Professor, Dept. of CSE, SDMCET, Dharwad jvvadavi@gmail.com	9448001249	Jalur.
		4) Prof. Anand Vaidya	Assistant Professor, Dept. of CSE, SDMCET, Dharwad vaidya.anand@rediffmail. com	9036889732	togy
		5) Prof. R.N.Yadawad	Assistant Professor, Dept. of CSE, SDMCET, Dharwad rnyadawad@gmail.com	9164685527	Bedre

Geded.

Agenda

Action Taken Report (From last BOS)

SI. No	Particulars	Action taken
AR1	Proposal to introduce a course UNIX Systems Programming in 4-0-0 structure of 4 credits for 5 th semester. <i>Exposure to UNIX environment and</i> <i>industry demand.</i>	Implemented
AR2	Proposal to introduce a core course Industry Oriented Programming Practices in 1-0-2 structure of 2 credits for 6 th semester. <i>Providing standard programming</i> <i>practices</i> .	Implemented
AR3	Restructuring of System Software Laboratory for 5 th Semester. <i>To incorporate the concepts related to</i> <i>Unix System Programming.</i>	Implemented
AR4	To be in line with VTU guidelines.	
AR5	Multi-level mapping of course outcomes to program outcomes.	Implemented
AR6	Result Analysis	Inferences have been drawn.
AR7	Placements: Highest Package - 10.0 lakhs (Intel) Lowest Package: 2.5 lakhs (Mphasis) Average: 6.87 lakhs Total number of offers: 102	Department has taken several initiatives to give additional training to further augment the placements.
AR8	Internship – Total 27 students	 Intel - 10 students Informatica - 6 INSZoom - 1 MindCraft - 9

		5. TECHSYSTEM – 1
AR9	Independent Study Details	Certifications by the students: 1. NPTEL – 18 2. CourseEra – 32 3. Udemy – 23 4. Others – 28

SCHEME 2015 – 19

III Semester

		Teaching	
Course Code	Course Title	L-T-P	Credits
		(Hrs/Week)	
15UMAC300	Engineering Mathematics – III	4-0-0	4
15UCSC300	Digital Electronics	4-0-0	4
15UCSC301	Discrete Structures in Computer Science	4-0-0	4
15UCSC302	Data Structures	4-0-0	4
15UCSC303	Computer Organization	4-0-0	4
15UCSL304	Unix shell programming	0-2-2	2
15UCSL305	Digital Electronics laboratory	0-0-3	1.5
15UCSL306	Data Structures Laboratory	0-0-3	1.5
Total			25

Semester

		Teaching	
Course Code	Course Title	L-T-P	Credits
		(Hrs/Week)	
15UMAC400	Engineering Mathematics – IV	4-0-0	4
15UCSC400	Microcontroller	4-0-0	4
15UCSC401	Finite Automata and Formal Languages	4-0-0	4
15UCSC402	Object Oriented Programming	4-0-0	4
15UCSC403	Analysis and Design of Algorithms	3-0-2	4
15UCSC404	Operating System	4-0-0	4
15UCSL405	Object Oriented Programming	0-0-3	1.5
15UCSL406	Microprocessor Laboratory	0-0-3	1.5
Total			27

V Semester

	Teaching	
Course Title	L-T-P	Credits
	(Hrs/Week)	
Data Communication	4-0-0	4
Compiler Design	4-0-0	4
Data Base Management Systems	4-0-0	4
Software Engineering	4-0-0	4
Unix System Programming	4-0-0	4
System Software Laboratory	0-0-3	1.5
DBMS Laboratory	0-0-3	1.5
Total	20-0-6	23
	Data CommunicationCompiler DesignData Base Management SystemsSoftware EngineeringUnix System ProgrammingSystem Software LaboratoryDBMS Laboratory	Course TitleL-T-P (Hrs/Week)Data Communication4-0-0Compiler Design4-0-0Data Base Management Systems4-0-0Software Engineering4-0-0Unix System Programming4-0-0System Software Laboratory0-0-3DBMS Laboratory0-0-3

VI Semester

Course		Teaching	
Code	Course Title	L-T-P	Credits
		(Hrs/Week)	
15UCSC600	Computer Networks	4-0-0	4
15UCSC601	Advanced Object Oriented Programming	4-0-0	4
15UCSC602	Object Oriented System Modelling and Design	4-0-0	4
15UCSL603	Industry Oriented Programming Practices	1-0-2	2
15UCSL604	Network Programming Laboratory	0-0-3	1.5
15UCSL605	Object Oriented Programming Laboratory	0-0-3	1.5
15UCSL606	Mini Project	0-0-8	4
11UCSEXXX	Elective 1	3-0-0	3
11UCSEXXX	Elective 2	3-0-0	3
	Total	19-0-16	27

Inventory of Electives

Sl. No.	Course Title
1	System Modeling and Simulation
2	Digital Image Processing
3	Advanced Data Structures and Algorithms
4	Artificial Intelligence
5	Pattern Recognition
6	Principles of Programming Languages
7	Web Technologies
8	Mobile Application and Development

VII Semester

Course		Teach	ing
Code	Course Title	L-T-P	Credits
		(Hrs/Week)	
15UCSC700	Engineering Management and Entrepreneurship	4-0-0	4
15UCSC701	Advanced Computer Architecture	4-0-0	4
15UCSL703	Major Project – Phase 1	0-0-8	4
15UCSC702	Computer Graphics	3-0-2	4
	Elective	3-0-0	3
	Elective	3-0-0	3
	Elective	3-0-0	3
	Total	34	27

Inventory of Electives

Sl. No	Course Code	Course Title
1	15UCSE705	Software Testing
2	15UCSE706	Ad-hoc Networks
3	15UCSE707	Operation Research
4	15UCSE708	Internet of Things
5	15UCSE709	Multi-Core Architecture & Programming
6	15UCSE710	Embedded Systems

VIII Semester

Course		Teac	Teaching	
Code	Course Title	L-T-P	Credits	
		(Hrs/Week)		
15UCSC800	Distributed Systems	4-0-0	4	
15UCSC801	Independent Study	0-0-4	2	
15UCSL802	Major Project – Phase 2	0-0-20	10	
	Elective	3-0-0	3	
	Elective	3-0-0	3	
	Elective	3-0-0	3	
	Total	36	25	

Inventory of Electives

Sl. No	Course Code	Course Title
1	15UCSE803	Data Warehousing and Mining
2	15UCSE804	Cryptography and Network Security
3	15UCSE805	Cloud Computing
4	15UCSE806	Mobile Computing
5	15UCSE807	Network Management
6	15UCSE808	Ontology and Semantic Web
7	15UCSE809	Big Data Analytics

Year	Semesters	2015-2019	2018-2022
I	01	22	21
	02	24	19
	03	25	24
	04	27	24
	05	23	25
	06	27	23
IV	07	27	21
	08	25	18
Total Credits		200	175

Comparison of 2015 – 2019 and 2018 – 2022 Schemes:

Comparison of 2015 – 2019 and 2018 – 2022 Schemes:

Particulars	Credits		
	2015-2019 Scheme	2018-2022 Scheme	
Core Courses	84	83	
Elective Courses	24	15	
Open Electives	06	09	
Laboratories	12	14	
Mini Project	4	2	
Major Project	14	10	
Seminar / Independent	2	1	
Internship / Practical	2	3	

		Teaching	
Course Code	Course Title	L-T-P (Hrs/Week)	Credits
18UMAC100	Engineering Mathematics-I	3 - 1 - 0	4
18UCYC100	Engineering Chemistry	3 - 1 - 0	4
18UECC100	Basic Electronics	3 - 0 - 0	3
18UCSC100	Problem Solving & Programming in C	4 - 0 - 0	4
18UMG100	Engineering Graphics	2 - 0 - 2	3
18UCYL100	Engineering Chemistry Lab	0 - 0 - 2	1
18UCSL100	Problem Solving & Programming in C Lab	0 - 0 - 2	1
18UHUC101	Functional English	2 - 0 -0	1
18UHUA102	Environmental Science	2 - 0 - 0	Audit

SCHEME 2018 – 22 Batch: 1st Year Chemistry Cycle

Resolutions:

Decision Making Items: Additions.

Sl. No	Description of the item to be added	Justification	Resolution
<u>A1</u>	<i>Internship / Practical</i> <i>Training</i> of 2 credits for 7 th semester.	Exposure to Industry Environment.	Approved
<u>A2</u>	<i>Distributed Systems</i> as a core course of 4 credits for 8 th semester.		Approved
<u>A3</u>	New Scheme for I year.	As per VTU guidelines	Approved

Decision Making Items: Modifications.

Sl. No	Description of the item to be added	Justification	Resolution
M1	Restructuring of Artificial Intelligence course for 6 th Semester.	Syllabus has been reframed for 39 hours.	Approved
M2	Restructuring of all the elective courses of 7 th and 8 th semesters, from 4-0-0 to 3-0-0 and changing the credits from 4 to 3 .		Approved



June 09, 2018

SDM College of Engineering and Technology, Dharwad – 580002

Department of Computer Science and Engineering

BoS Proceedings 2019

27-05-2019

- 1. The Chairman, Dr. S.B.Kulkarni., welcomed Dr. S. B. Vanakudare, Principal, Dr. R.L. Chakrasali, (Dean Academics), all the faculty members and BoS (Internal and External) members to the meeting.
- 2. Prof. R.N.Yadawad. discussed about the action plan, report of the previous BoS.
- 3. The following are the approved things in the Board of Students 2019 meeting w.r.t. B.E. 2018 Scheme (175 credits):
 - i. As a part of Independent Study, students must give their presentations in the presence of their batch mates. It is suggested to keep a repository of videos in the department.
 - ii. Tutorial 3-2-0 model: PG students, in addition to the course teachers, may be used for the conduction of tutorials.
 - iii. Micro controller 8051: The **ARM processor** is to be taught in place of Microcontroller 8051 in the fourth semester.
 - iv. Finite Automata and Formal Languages: It is suggested to make use of text book authored by Eline Richi, in addition to the existing text books.
 - v. For Introductory Project (IV Semester), and Minor Project 1 (5th Semester) specified in the course outline, team size is 10 12. It is suggested to have a team size of 4- 5 students only.
 - vi. The syllabus for Object Oriented Programming of 4th Semester is to be modified.
 - vii. Every 6 to 8 hours is to be considered as one module as in the VTU syllabus. This will force the students to read all the modules. This is subject to approval of Academic Council of SDMCET, Dharwad.
 - viii. Analysis and Design of Algorithms: This subject is to be linked with Introductory Project (4th Semester) as this subject is not having end semester lab examinations.
 - ix. The title of Computer Networks 1 is to be reverted to Data Communications. The title of Computer Networks – 2 is to be reverted to Computer Networks.
 - x. The title of Compiler Design is to be modified as Compiler Design and System Software.

- xi. Computer Organization title needs to be changed as Computer Organization and Architecture.
- xii. Data Structures: The title of the course is to be changed as Data Structures and Applications.
- xiii. Digital Electronics: One chapter on Analog Electronics has to be included after comparing with the first year Basic Electronics course.
- xiv. Software Testing should not be made as core course. In place of that, the course Artificial Intelligence and Machine Learning is to be introduced as core course for 7th Semester. The Software Testing course is to be looked for elective.
- xv. Software Engineering and OOMD courses may be redesigned to remove some of the duplicate contents.
- xvi. The elective course Data Warehousing and Mining is to be made as part of 6th Semester Elective list, instead of 8th Semester Elective list.
- xvii. The open elective courses offered by the department are to be taken by other branch students and vice versa.
- xviii. The topics related to Cyber Law are to be included in the Management, Entrepreneurship, and IPR course of 5th Semester.
- xix. Distributed Systems will continue as core course. If possible, it can be renamed as
 Distributed Systems and Big Data Analytics. It should include three components –
 Basic Distributed Algorithms, Case Studies, and Programming aspects.
- xx. The courses Introduction to Unix Operating Systems and Industry Oriented Programming Practices were discussed in detail and approved.
- xxi. Mr. Harish Kamat expressed his views through mail, and same was discussed.

		DEPARTMENT OF	NGINEERING & TECHNOLOGY, DHARWAD COMPUTER SCIENCE & ENGINEERING mmittee Members for the period April 2018 to April 2	020	
SI	. Particulars	Name of experts	Address	Mobile No.	Signature
No 1	Chairman	Dr. S. B.Kulkarni	Head of the Department, Dept. of Computer Science & Engineering, SDMCET, Dharwad, sbkulkarni in@yahoo.com	9880313022	
2	One Expert from outside the college to be nominated by the Honorable Vice Chancellor, VTU	Dr. H N Champa	Department of Computer Science & Engineering, Central College Campus, Bangalore University, Bengaluru-560001, champahn@yahoo.co.in	9448256492	AB
3		1) Mr.Girish Aithal	4Edge IT Solutions, Bejai-Kapikad Road, Mangaluru - 575004 gaithal@gmail.com	9740160986	- Ari
	Council.	2) Dr.Shridhar K.S.	Professor, Dept. of CSE, UBDT, Davangere, ks_shreedhara@yahoo.com	9448009306	1000
	One representative from industry / Corporate sector / allied area relating to placement to be nominated by the Academic Council.	1) Mr.Sreenivas Ramanujam	Academic Relationship Manager - Karnataka TCS Bangalore Vydehi, RC- 1 Block, 82, EPIP, Whitefield, Bangalore - 560066 sreenivasa.ramanujam@tcs.com	080- 67257654	100 guand
	5 Five Faculty members at different levels covering different specializations to be nominated	1) Dr. U. P. Kulkarni	Professor, Dept. of CSE, SDMCET, Dharwad upkulkarni@yahoo.com	9448915301	1.
	by the Academic Council.	2) Prof.J.C.Karur	Professor, Dept. of CSE, SDMCET, Dharwad ick1965@gmail.com	8971212216	Fund-
	-	3) Prof J. V. Vadavi	Associate Professor, Dept. of CSE, SDMCET, Dharwad jvvadavi@gmail.com	9448001249	Auly
		4) Prof Anand Vaidya	Assistant Professor, Dept. of CSE, SDMCET, Dharwad	9036889732	(taje2

		D. D. C. D. M. M. L. L.	vaidya.anand@rediffmail.com		()@
		5) Prof. R.N. Yadawad	Assistant Professor, Dept. of CSE, SDMCET, Dharwad rnyadawad@gmail.com	9164685527	Bedad
	Special Invitee	6) Dr. S. M. Joshi	Professor, Dept. of CSE, SDMCET, Dharwad joshshree@yahoo.com	9036079402	(m
6	One Postgraduate meritorious Alumnus to be nominated by the Principal	1) Mr. Harish Kamat	HPE Printers, Bangalore harish.kamath@hpe.com	9845221770	AR
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Board of Studies – Proceedings

Computer Science and Engineering

UG and PG PROGRAMME

Effective from: 1st August 2020 BoS Meetings held on 11thJuly 2020 Online- CISCO WebEx tool



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About the Department

The department of Computer Science and Engineering is established in the year 1985. Currently one UG Programme with the intake of 120and one PG Program with intake of 18 are running in Autonomous mode recognized by Visvesvaraya Technological University and UGC.

The department has a research center, recognized by Visvesvaraya Technological University, Belgaum.

The department has adopted **OBE based Educational Philosophy**since 2010 & transforming itself to drive practice based learning as its new learning model / initiatives for students, so that they are globally acceptable as a **competent professionals** with **human values**. To achieve this it has established its mission as stated below.

- 1. To have **contextually relevant** Curricula.
- To promote effective Teaching Learning Practices supported by Modern Educational Tools and Techniques.
- 3. To enhance Research Culture.
- 4. To involve the **Industrial Expertise for connecting Classroom**contents to reallife situations.
- 5. To inculcate Ethics and soft-skillsleading to overall personality development.

Agenda

- 1. Revalidation of Vision/Mission/PEOs/POs and PSOs; if required.
- 2. Reporting items in terms of :
 - a) <u>Performance</u> in the **examinations**.
 - b) Placement report.
 - c) **NBA** accreditation <u>results</u>.
 - d) Other <u>noteworthy</u> Contributions.
 - e) Implementation details of last BoS resolutions.
- 3. Unit wise reorganization of syllabus.
- 4. Introduction of Performance Ensuring Measures- **PEM** in the syllabus.
- 5. **Connecting Industry**(Alumni) to the class room through webinars in each course.
- 6. **Course outcomes** and their **mappings** to POs and PSOs.
- 7. UG- Development of course contents of 5th and 6th semester under 175 credits.
- 8. UG- 10 % variations in existing syllabus; if required, in other semesters of

175 credits and 7^{th} and 8^{th} semesters of 200 credits.

- PG- Development of course contents of 1st and 2nd semester and only scheme of 3rd and 4th semesters.
- 10. Any other relevant matters.

Vision and Mission

Vision and Mission of the Institution (V4.0)

VISION:

To develop competent professionals with human values.

MISSION:

- 1. To have contextually relevant Curricula.
- 2. To promote effective Teaching Learning Practices supported by Modern Educational Tools and Techniques.
- 3. To enhance Research Culture.
- 4. To involve the Industrial Expertise for connecting Classroom contents to real-life situations.
- 5. To inculcate Ethics and soft-skills leading to overall personality development.

Vision and Mission of the Department (V4.0)

1-10-2017

VISION (V4.0):

To develop competent professionals in the field of Computer Science and Engineering with human values.

MISSION (V4.0):

- 1. To have **contextually relevant curricula**in line with industry trends and body of knowledge stated by **IEEE/ACM**.
- 2. To promote **OBE based effective Teaching Learning Practices** supported by modern educational tools and techniques.
- 3. To enhance **research culture**.
- 4. To involve the **industrial expertise** for connecting classroom contents to real-life situations.
- 5. To inculcate ethics and soft-skills leading to overall personality development.

OUALITY POLICY (V4.0)

In line with the Institutional VISION (Competence, Commitment and Team work), and understanding education as the manifestation of the perfection already in man, the Department of Computer Science and Engineering at SDM College of Engineering & Technology, Dharwad, has redefined its quality policy as under:

Impartingquality education by which:

- 1. *Character* is formed.
- 2. Strength of the *mind* is increased.
- 3. The *intellect* is expanded, and by which one can *stand on* one's own feet.

So that our students are:

- Acceptable as good citizens and adaptable lifelong learners.
- Acceptable globally in the industries and Premier Institutions of Higher studies and Research.

Department of CSE, SDMCET, Dharwad.

Re-written on 18th Nov 2011, on the occasion of Inauguration of new space created for the department.

PEOs (V 4.0)

Reference:

- 1. Page No. 18, Accreditation Manual for UG Engineering Programmes, (TIER-I), January, 2013.
- 2. Page No. 14-23, Ver. June 2009 NBA Accreditation of UG Engineering Program.
- 3. Continuation of Version 3.1

Programme Educational Objectives (PEOs) – Programme educational objectives are broadstatements that **describe the career and professional accomplishments that the programme is preparing graduates to achieve. Programme Outcomes (POs)** – Programme Outcomes are narrower statements that describe **what students are expected to know and be able to do upon their graduation**. These relateto the skills, knowledge, and behavior that students acquire in their matriculation through theprogramme.

SI.	Programme Educational Objectives				
No.	8 V				
Organi	Organizational Core Values through Vision: Competence, Commitment, Equity				
Team	work and Trust.				
Ι	<i>To build</i> technical <u>competence</u> by providing necessary background and foundation in Computer Science and Engineering domain, so that students are acceptable globally to industries, premier institutions of higher studies and research.				
II	<i>To create</i> awareness of technological trends and tools to provide an experience of developing computing systems through development phases like: inception, elaboration, construction and transition, with higher quality and standards.				
III	<i>To prepare</i> students to be <u>committed</u> citizenwith social and professional concern.				
IV	<i>To prepare</i> studentsto be independent lifelong learner.				
V	<i>To prepare</i> students to demonstrate leadership qualities and managerial skills, thus contributing their knowledge globally at various levels of responsibilities in heterogeneous <u>team</u> s.				

POs and PSOs

APPROVED PROGRAMME OUTCOMES (POs) and Programme Specific Outcomes (PSOs)-V 4.0

V 4.0

Version 2016, Effective from 1-1-2016 As per NBA Documents published on <u>www.nbaind.org</u> for Tier-I Institutions.

Outcomes are the skills and knowledge which the students have at the time of graduation. This will indicate what student <u>can do</u> from subject-wise knowledge acquired during the programme.

РО	Short Title of the PO	Description of the Programme Outcome (PO) as defined by National Board of Accreditation. Engineering Graduates will be able to:			
PO-1	Engineering knowledge	Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.			
PO-2	Problem analysis	Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.			
PO-3	Design/development of solutions	Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.			
PO-4	Conduct investigations of complex problems Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.				
PO-5	Modern tool usage Create, select, and apply appropriate techniques, resources, and moder engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.				
PO-6	The engineer and Apply reasoning informed by the contextual knowledge to assess socie				
PO-7	Environment and Understand the impact of the professional engineering solutions in so				
PO-8	Ethics Apply ethical principles and commit to professional ethics ar responsibilities and norms of the engineering practice.				
PO-9	Individual and team work:	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.			
PO-10		Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.			
PO-11	Project management and	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member			

-	1					
	finance	and leader in a team, to manage projects and in multidisciplinary				
		environments.				
		Recognize the need for, and have the preparation and ability to engage in				
PO-12	Life-long learning	independent and life-long learning in the broadest context of technological				
		change.				
P	PROGRAM SPECIFIC OUTCOMES (PSOs) defined by the programme. Baseline- Rational Unified Process (RUP)					
PO-13	System Inception and Elaboration	Conceptualize the software and/or hardware systems, system components and process/procedures through requirement analysis, modeling /design of the system using various architectural / design patterns , standard notations, procedures and algorithms.				
PO-14	System Constructi on	Implement the systems, procedures and processes using the state of the art technologies, standards, tools and programming paradigms .				
PO-15	System Testing and Deployment	Verify and validate the systems, procedures and processes using various testing and verification techniques and tools .				
PO-16	Structure and Behavior	Manage the quality through various product development strategies under revision, transition and operation through maintainability, flexibility, testability, portability, reusability, interoperability, correctness, reliability, efficiency, integrity and usability to adapt the system to the changing structure and behavior of the systems /environments				

BoS Members

Sl. No.	Particulars	Name of the members	Category	
1	Chairman	Dr.U.P.Kulkarni.	Professor & Head, Dept. of CSE, SDMCET,Dharwadupkulkarni@yahoo.o 9448915301	om
2	VTU nominee	Dr. R B V. Subramaanyam.	Professor, Dept of CSE, NIT, Warangal rbvs66@gmail.com 9491346969	
		1) Dr.Shridhar.K.S.	Principal, Dept. of CSE, UBDT, Davangere, ks_shreedhara@yahoo.com 9448009306	
3	Subject Experts	1) Dr.Rajashekar.K.	Assistant Professor Dept of CSE IIT, Dharwad Dharwad - 580011. rajshekar.k@iitdh.ac.in 8802515953	
4	Industry / Corporate sector representative	Mr. Sreenivas Ramanujam.	Academic Relationship Manager - Karnataka TCS Bangalore Vydehi, RC- 1 Block, 82, EPIP, Whitefie Bangalore - 560066 sreenivasa.ramanujam@tcs.com 080-67257654, 8147002870	ld,
5	Alumnus	Mr. Vijay.Upadhyay.	Technologist, Torry Harris Integration Solutions, #71, Sona Towers, Millers Road, Bangalo – 560052 vijayru@gmail.com 7259400112	re
	Tectoren 1	1) Dr.S.M.Joshi.	Professor joshshree@gmail.com 9036079402	
6	Internal Members (UG)	2) Prof.J.V.Vadavi.	Associate Professor jvvadavi@gmail.com 9448001249	
		3) Prof.R.G.Yadawad	Assistant Professor rgyadawad@gmail.com 9448049909	

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		4) Prof. Indira.R.Umarji.	Assistant Professor indira.umarji@gmail.com 9945348887		
		5) Dr.R.N.Yadawad. (Member Secretary)	Assistant Professor rnyadawad@gmail.com 9164685527		
	Internal Members (PG)	1) Dr.S.M.Joshi.	Professor joshshree@gmail.com 9036079402		
		2) Dr.Raghavendra.G.S.	Associate Professor gsr.sdmcet@gmail.com 7204577887		
7		3) Dr.Vidyagowri.B.H.	Assistant Professor vidya_gouri@yahoo.com 9448776104		
		4) Dr.Shivanagowda G.M.	Assistant Professor shivana.gowda@gmail.com 9740109113		
		5) Dr.J.C.Karur. (Member Secretary)	Professor jck1965@gmail.com 8971212216		
8	Special Invitee	Domain specific expert(s) will be invited on need basis			

Note:

- A. Meeting conducted in online mode and following members remained absent for the meeting.
 - 1. 2.
- B. Dr. S. Biradar, faculty, Department of ISE, SDMCET, Dharwad has participated as domain experts

DUGC , DPGC, IQAC and BoE Members

Department Under-graduate Committee (DUGC)& Academic Appeal Board (AAB)[till 30th June 2020]

	Dr. U.P.Kulkarni	- Chairman & Head of Department.
1.	Prof. R. N. Yadawad	- Member Secretary.
2.	Prof. J.V.Vadavi	- Member.
3.	Prof. R.G. Yadawad	- Member.
4.	Prof. A.D.Vaidya	- Member.
5.	Prof. I.R.Umarji	- Member.
6.	Prof. S.M.Joshi	- Special Invitee

Following are the special invitees called on case basis.

- 1. Prof. J.C.Karur.
- 2. Prof. N.G.Kakhandki.
- 3. Prof. V.B.Hemadri.
- 4. Prof. G.M.Shivanagouda.

Department Post-graduate Committee (DPGC)& Academic Appeal Board (AAB)[till 30th Oct 2020] Members:

Dr. U.P.Kulkarni - Chairman & Head, Department of CSE.

- 1. Dr.J.C.Karur Member.
- 2. Dr. S.M.Joshi Member.
- 3. Dr. Shivanagoud G.M Member.
- 4. Dr. Vidyagouri Hemadri Member.
- 5. Prof. Sandhya S.V Member Secretary

IQAC– Members- UG [till 30th June 2020] Members:

	Dr. U.P.Kulkarni	- Chairman & Head of Department.
1.	Dr. S.M.Joshi	- Coordinator. (QP review & Conduction BoE)
2.	Prof. A.D. Vaidya	- Member (Class Committee & Course File verification)
2	Prof R C Vodowod	- Momber (Class Committee)

B. Prof. R.G. Yadawad - **Member** (Class Committee)

Dr. Vidyagouri Hemadri and Prof. Govind Neglur are the special invitees.

IQAC– Members- PG [till 30-10-2020] Members:

- Dr. U.P.Kulkarni
- 1. Dr. Vidyagouri Hemadri
- Chairman & Head, Department of CSE.
- Member - Member
- 2. Prof. VidyaUttur
- **BoE– Members- UG [till 30th June 2020] Members:**

Dr. U.P.Kulkarni

- 1. Dr. S.M.Joshi
- 2. Prof. J.V.Vadavi
- 3. Dr. Vidyagouri Hemadri
- 4. Prof. IndiarUmarji
- 5. Prof. Govind Neglur
- 6. Dr. S.F.Rodd, GIT Belgaum.
- 7. Prof. Prasanna Bammingatti- KLEIT, Hubli -Member

BoE- Members- PG [till 30-10-2020] Members:

3. Dr. Raghavendra G.S

Dr. U.P.Kulkarni

1. Prof. Nita K.

2. Dr. S.M.Joshi

- Chairman & Head, Department of CSE.

- -Member Secretary
- -Member
- -Member
- -Member
- -Member

- Chairman & Head, Department of CSE.
 - -Member Secretary
 - -Member
 - -Member
 - -Member
 - -Member
 - -Member External

4. Dr. Vilas Naik, BEC Bagalkot 5. Dr.RajendraHeggadi, IIIT Hubli

<u>Reporting Items</u>.

Performance in the Examination.

BATC	% of passing							
н	1₅ Se	2 ^₀ Sem	3 [.] Sem	4 th Se	5≞ Sem	6≞ Se	7 " Sem	8≞ Se
	m			m		m		m
2012-13 to 2015-16	54	52	56	67	67	78	90	96
2013-14 to 2016-17	61	73	48	38	62	73	82	92
2014-15 to 2017-18	51	57	56	67	71	91	84	91
2015-16 to 2018-19	53	59	64	56	71	83	88	99
2016-17 to 2019-20	63	62	59	58	79	82	79.7	
							0	
2017-18 to 2020-21	65	47	71	82	81.8			
					8			
2018-19 to 2021-22	66	67	85.8					
			3					
2019-20 to 2022-23	61							

Placement Report.

Year	No. of Compani es Visited	Highes t Packa ge (LPA)	Lowes t Packa ge (LPA)	No. student s Placed.	No. of Offer s	Total no of student s	% Placeme nt
2015-16	47	14	2	90	117	104	86.53 %
2016-17	49	14	1.8	62	79	112	55.35 %
2017-18	50	9.62	1.8	76	113	115	66.08 %
2018-19	56	10.24	1.75	104	142	109	95.41 %
2019-20	32	11.44	2.2	82	138	122	67.21 %

List of Companies Visited to

SDMCET: Academic year: 2019-

<u>20</u>

- 1. INSZoom
- 2. Allegion

- 3. Informatica
- 4. ITC INFOTECH INDIA LTD.
- 5. DELL
- 6. Radisys
- 7. CoreEL
- 8. Deloitte
- 9. KPIT

11.TCS 12.Texas Instruments' 13.Global Edge 14.Mindtree 15.Quest Global 16.TEK Systems 17.Oracle GSD 18. Mercedes Benz 19.Cadence 20. Deevia Software 21.Pin Click 22. Hexaware Technologies 23.Sony 24.Oracle GSD **25.ANZY Careers** 26. Tayana Software Solutions 27. Shriram General Insurance Co. Ltd 28.Continental Automotive 29. Infosys Ltd **30. Juniper Networks** 31.Saankhya Labs Pvt Ltd

NBA accreditation.

Date of Visit: 7th to 9th June-2020.Application ID: 3316-08/12/2018 Period of Validity of accreditation: Academic year 2020-21to 2022-23 i.e up to 30-06- 2023.

General Observation:

10.Accenture

- a. Department has started in 1985 with the initial intake of 30. The intake was increased to 120 in 2005. Department also runs a PG program in CSE with an intake of 18.
- b. Vision, mission statements and PEOs have been developed, published. However little involvement of stake holders is observed in the preparation of these.
- c. The enrolment ratio is good. About 40% of faculty members are PhD holders.
- d. Faculty involvement in NBA process is good.
- e. Regular activities of the department are as per the designed academic calendar.
- f. Cooperation among the faculty observed.

Strength:

- a. Vision, Mission have been designed and published.
- b. Overall ambiance of the department is very good.
- c. Class rooms and Labs are equipped with LCD projectors.
- d. SFR, Faculty cadre ratio and Faculty retention is very good.
- e. Labs are well equipped and maintenance is good.
- f. The student enrolment is very good.
- g. Young and dynamic faculty.

Curriculum Design Guidelines.

Department wishes to focus on the following <u>areas for</u> <u>improvement</u>through curriculum reforms and Improved TLPs.

- 1. Awareness of **OBE** among various stakeholders.
- 2. Involvement of various stake holders in defining CO, PEOs, PSOs.
- 3. Setting attainment levels set for COs and POs.
- 4. Industry Institute interaction.
- 5. PhD- Research.
- 6. Faculty interaction with outside world.
- 7. Academic audit.
- 8. Professional society student chapter in the department.
- 9. **Involvement of industry** in curriculum design and **partial delivery** of regular courses.
- 10. Students' **feedback** on Institute industry interaction.
- 11. Student's publications.
- 12. Participation of the students in various events outside the state.
- 13. Publication of technical magazine.
- 14. Awards won by the students.
- 15.Continuous improvement in placement and higher studies.

Other noteworthy contributions.

- 1. Improved certification courses.
- 2. Improved Internship in the industry.
- 3. Copyright publication by students group.
- 4. Start of **product development** by students group.

Implementation details of the last BoS meeting resolutions.

All resolutions have been implemented.

SI. No	Resolution in previous BoS meeting dated 11 th May 2019	Implementation status
1	Independent study- Students must give presentation in front of their batch mates and it is suggested to keep the videos of their presentation in the department repository.	Process established. Lockdown situations made us to be liberal in process established.
2	PG students may be used to conduct tutorial for UG students in addition to course teacher.	Informally done. Formal process to be established with approval of AC.
3	Arm processor is to be taught in place of microcontroller in 4 th semester.	Implemented.
4	Text book revision in FAFL course. Book: Elaine A.Rich, Automata, Computability, and Complexity, Pearson Publication	Implemented.
5	For introductory project @ 4 th semester level, the team size is to be 4 to 5 instead of 10 to 12.	Implemented.
6	Contents of object oriented programming are to be relooked.	Implemented.
7	Module wise syllabus is to be considered. Every 6 to 8 hours of contents may be considered as a module.	Implemented.
8	Analysis and Design of Alogorithms is to be linked with Introductory projects at 4t sem.	In process. Since introductory project focus on ideation phase, enabling students to look for Engineering problems in the society and visualize a solution.
9	Title of Computer Network-1 is to be reverted to Data Communication.	Implemented.
10	Title of Compiler Design course to be modified as Compiler Design and System Software.	Implemented.
11	Computer Organization course title to be changes as Computer Organization and Architecture.	Implemented.
12	Title of the Data Structure course to bechanged as Data Structure and Applications.	Implemented.
13	One chapter on analog circuits to be introduced in	In process.

	Digital Electronics Course.	
14	AI and Machine learning to be introduced as core subject in place of Software Testing.	Implemented.
15	Software Engineering and OOMD may be redesigned to remove duplicate contents.	Implemented. Introductory coverage and detailed coverage is balanced in pedagogy.
16	Data warehousing and mining to be put in 6 th Sem	In process.

	elective list instead of 7 th sem.	
17	Open electives courses offered by the department are to be taken by other branch students and vice versa.	Implemented.
18	Topics related to cyber laws to be introduced in management course.	Implemented.
19	Distributed System wil continue as core course. If possible it may renamed as Distributed System and Big Data Analytics.	Implemented. The course distributed System will continue as core with focusing on distributed algorithms, Case studies and Algorithms aspects.
20	Courses Introduction to Unix Operating System and Industry Oriented Programming Practices were approved.	-

Covid-19 : Lockdown Period activities.

- 1. Regular class committee meetings with CRs through WebEx / Zoom.
- 2. Regular meetings with all faculty members.
- 3. Online interactive classes through WebEx / Zoom.
- 4. Sharing of videos through class groups and <u>college website</u>.
- 5. Sharing power point slides through class groups / Google class.
- 6. Conducting classes through Google classes.
- 7. Written open book assignments (1 and 2) and its evaluation through Google classes and other modes.
- 8. Project and seminars/Independent study evaluation through WebEx tool.

Status: Syllabus coverage before covid - ~40 %
during lock down period - ~40-60%
Through SI. No. 1 to 7 listed above.
Reachability: Through interactive class - 60-
70% Through sharing of videos/materials -
100%

Proceeding of the Meeting.

Dr. U P Kulkarni, Chairman of Board of Studies (BoS), welcomed all members of BoS and all faculty members. In this welcome address, Chairman mentioned about the main features of curriculum for both UG and PG and related aspects and are as below:

- Writing of Course Outcomes in accordance with three levels of mastery defined by **IEEE/ACM** and **Bloom's taxonomy.**
- Mapping COs to POs with appropriate level and required supporting evidence.
- Inclusion of **Performance Ensuring Measures (PEM)** as per **NASSCOM** defined structure to ensure <u>common minimum experiential learning</u> to comply with course outcomes defined for a course.
- Curriculum <u>guidelines</u>, NBA observations and noteworthy contributions by the students.

SI. No	Agenda/ Observations	Resolutions/ Suggestions
01	Revalidation of Vision/Mission/PEOs/POs and PSOs	Vision and Mission statements are relevant and are in-line with Institutional vision and mission. PEOs are defined as per procedures laid down by NBA- 2009 manual. POs 1 to 12 are standard and are common across the Institution defined by NBA. PSOs are defined based on Rational Unified Process and are relevant to be called as Program Specific Outcomes/ Graduate Attributes. Hence all are relevant and hence approved.

		Appropriate TLP may be designed to improve performance at 1 st year level.			
	Reporting Items: a) Performance in the examinations.	Placement related domain specific training for students are to be planned.			
02	 b) Placement report. c) NBA accreditation results. d) Other noteworthy Contributions. e) Implementation details of last BoS resolutions 	Student's projects leading to publication need improvements and are to be planned.			
		BoS expressed satisfaction over implementation of all suggestions given in their previous meeting.			
03	Unit wise reorganization of syllabus	Structural reform at Institute level is initiated in the college and hence BoS approves this reform.			
04	Introduction of Performance Ensuring Measures- PEM in the syllabus	This is introduced as per NASSCOM recommendation to ensure common minimum learning standards through practice based learning and hence approved .			
05	Connecting Industry(Alumni) to the class room through webinars in each course	Industry / alumni connectivity to the class room through webinar for every course is a good practice. This will give exposure to industry trends and hence approved .			
06	Course outcomes and their mappings to POs and PSOs	Course outcomes are defined as per Blooms taxonomy and also as per the directions given in IEEE/ACM Body of Knowledge and hence approved . COs to POs mapping need deeper understanding while designing course plan/ course assignments. This has been taken care in PEM and hence approved .			
	UG- Observations and Resolution	ns /Suggestions			
L					

Page **22** of

	Mr. Sreenivas Ramanujam from TCS Bangalore suggested to include Industry experts along
1	with proposed alumni participation as a part of webinars attached with every course. The floor
	agreed and approved this suggestion and also suggested to conduct quiz based on the expert

	talk after one week of the session.		
2	The floor agreed and approved the changes in the titles of courses as Data Communication and Computer Networks instead of Computer Networks I and Computer Network -II.		
	Mr. Vijay Upadhya from Torry Harris Integration Solutions Bangalore suggested for including		
3	Student Presentations for every subject as part of the PEM. The floor <u>agreed</u> and approved		
	this suggestion.		
	Prof. RBV Subramaanyam from NIT Warangal highlighted the non-availability of File		
	organization concepts during the discussion of Database Management Systems course contents.		
4	However, it was brought to the notice to the floor by Dr.U.P.Kulkarni that it is included in other courses. The floor agreed and approved the inclusion of activity based on file organization in		
	PEM of DBMS theory and / or in the DBMS laboratory		
	Mr. Vijay Upadhya from Torry Harris Integration Solutions Bangalore suggested for including		
	NoSQL, Graph Databases as part of DBMS course. However, Prof. RBV Subramaanyam from		
5	NIT Warangal insisted for covering these concepts through self-study mode / project based		
	learning by the students. The floor agreed and approved the inclusion of activity in PEM of		
	DBMS theory and / or in the DBMS laboratory as self-learning drive connected with CTA. Prof. RBV Subramaanyam from NIT Warangal suggested the following things:		
	a) Inclusion of JDBC-ODBC concepts in Java.		
	b) In the course Data Mining, the Unit 2 (Association Analysis) and Unit 3 (Classification) are		
6	to be dealt in the order: First Classification, then Association Analyis.		
	c) Offering Embedded Systems as an Open Elective by the CSE department.		
	The floor agreed and approved this suggestion. It was also noted that JDBC-ODBC concepts		
	are covered in Advanced Object Oriented Programming (Java).		
	PG Observations and Resolutions/Suggestions.		
-	Mr. Sreenivas Ramanujam from TCS Bangalore has informed that his group will facilitate		
1	connecting industry experts towards teaching of the courses Software Defined Networks and Image Processing and Computer Vision.		
	Mr. Sreenivas Ramanujam from TCS Bangalore has suggested reserving the last two semesters		
	exclusively for Internship and Project Work for the students as being followed in premier		
2	institutes. The floor agreed to forward this information to the office of the Dean (Academics)		
	program to call for the decision as the common scheme is followed for all the PG courses at the		
	Institute level.		
3	Mr. Vijay Upadhyay from Torry Harris Integration Solutions Bangalore has appreciated the adoption of Performance Ensuring Measures (PEMs) followed for the courses in the		
3	department.		
	Mr.Vijay Upadhaya has accepted our invitation to initiate the industry oriented problem		
4	formulation for the students in connection with project work.		
	nairman BoS, Dr. U P Kulkarni also requested the external members to provide any additional		
comments, if any, through the form shared in the email sent to all the BoS members, and those			
comme	ents will also be considered after relevant email discussions with all the BoS members.		

Annexure.

Call for the meeting.

BoS meeting dated 11-7-2020

From: CSE SDMCET (cse.sdmcet.bos@gmail.com)

- To: sdmcet_cse_bos_2020_2022@googlegroups.com
- Cc: sdmcet_cse_faculty@googlegroups.com; principal@sdmcet.ac.in; deanap.sdmcet@gmail.com; deanadmn.sdmcet@gmail.com; dvpatil61@gmail.com

Date: Friday, July 10, 2020, 7:18 AM GMT+5:30

Respected members of BoS- 2020-22 Department of CSE, SDMCET, Dharwad.

I welcome all new members of **BoS-2020-22** for the first BoS meeting of this group. The meeting is scheduled to formulate the syllabus of UG & PG in line with the directions given by the office of the dean Academic Programme and previous BoS discussions and resolution.

The details of the meeting are as below:

Date : 11-7-2020. Time : 10am onwards Venue: online Mode: Online- Platform- WebEx tool. - Links have been already sent to all. Programs: UG and PG Scope:

- 1. PEOs, POs and PSOs.- A glance for revalidation if required.
- 2. Course Outcomes- quality of expected critical thinking levels.
- 3. COs to POs mapping.
- 4. Performance Ensuring Measures- PEM as per NASSCOM standards
- 5. UG- 5th and 6th semesters and minor changes(to the extent of 10%) for other sem if required.
- 6. PG-1st to 4th semester contents.

Syllabus Copy availability: in College website at https://sdmcet.ac.in/cs-engineering/

Presenters:

Dr. U.P.Kulkarni, Head, Department of CSE. UG- Dr. Ramchandra Yadwad- Member Secretary.

PG- Dr. J.C.Karur, PG Coordinator and Prof. Sandhya S.

Meeting Links: - a separate file is attached with this email All webEx meetings are of 50 minutes. 10 Minutes break for transition from one meeting to another meeting.

Online meeting links.

SDM College of Engineering and Technology, Dharwad – 580002 Department of Computer Science and Engineering

Board of Studies (BoS) meeting - 2020

Date: 11.07.2020

Time: 10 am onwards

Tool: Cisco WebEx meeting tool

Sl.No	Time	Meeting ID	Password	Meeting link
1	10:00 am	1661218931	csedept	https://meetingsapac29.webex.com/meetingsapac29/j.php?MTID=m40db75f90d8dc1a28691 e4a1934ed875
2	11:00 am	1665277370	csedept	https://meetingsapac29.webex.com/meetingsapac29/j.php?MTID=m27d001398a42489dfcd3 e3c0ab424f5d
3	12:05 pm	1667290846	csedept	https://meetingsapac29.webex.com/meetingsapac29/j.php?MTID=mbdfd6e2625b60ea87024 eceb2e443634
4	2:40 pm	1661967529	csedept	https://meetingsapac29.webex.com/meetingsapac29/j.php?MTID=m4d287994f45253a1f9a4 0ab0921d4e22
5	3:40 pm	1662196111	csedept	https://meetingsapac29.webex.com/meetingsapac29/j.php?MTID=ma83fede03de9cb302f292 6ed3e86e337

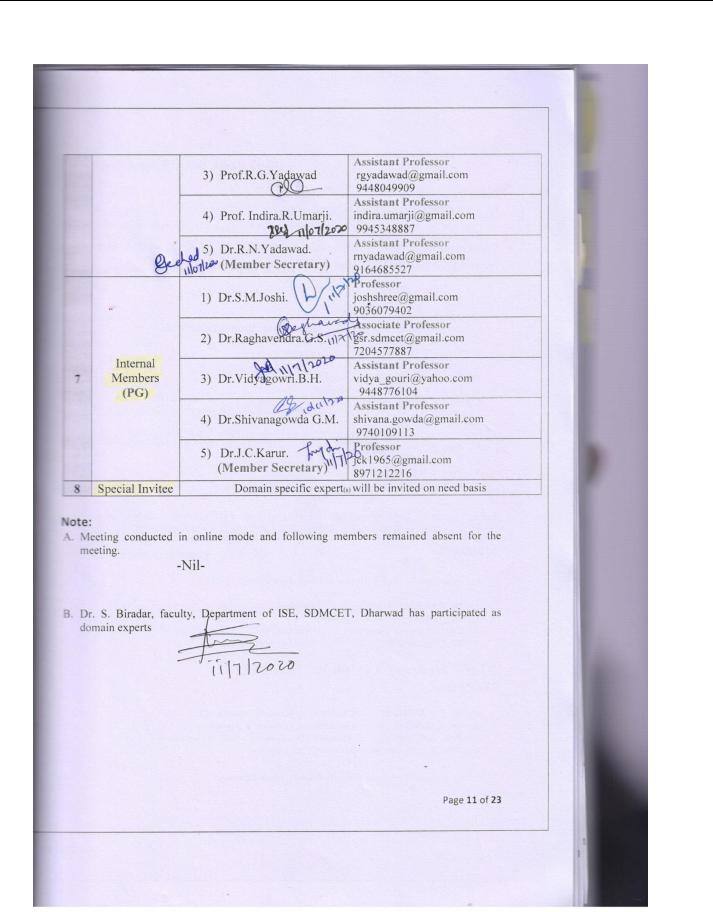
(Dr.U.P.Kulkarni.)

HOD CSE

Bos Members

	Name of the members	Category
Chairman	Dr.U.P.Kulkarni.	Professor & Head, Dept. of CSE, SDMCET,Dharwadupkulkarni@yal oo.com 9448915301
VTU nominee	Dr. R B V. Subramaanyam.	Professor, Dept of CSE, NIT, Warangal rbvs66@gmail.com 9491346969
Subject Experts	1) Dr.Shridhar.K.S.	Principal, Dept. of CSE, UBDT, Davangere, ks_shreedhara@yahoo.com 9448009306
	1) Dr.Rajashekar.K.	Assistant Professor Dept of CSE IIT, Dharwad Dharwad - 580011. rajshekar.k@iitdh.ac.in 8802515953
Industry / Corporate sector representative	Mr. Sreenivas Ramanujam.	Academic Relationship Manager - Karnataka TCS Bangalore Vydehi, RC- 1 Block, 82, EPIP, Whitefield, Bangalore - 560066 sreenivasa.ramanujam@tcs.com 080-67257654, 8147002870
Alumnus	Mr. Vijay.Upadhyay.	Technologist, Torry Harris Integration Solutions, #71, Sona Towers, Millers Road, Bangalore – 560052 vijayru@gmail.com 7259400112
Internal Members (UG)	1) Dr.S.M.Joshi.	Professor joshshree@gmajl.com 9036079402
	2) Prof.J.V. Vadavi.	Associate Professor jvvadavi@gmail.com 9448001249
	VTU nominee Subject Experts Industry / Corporate sector epresentative Alumnus Internal Members	VTU nominee Dr. R B V. Subramaanyam. Subject 1) Dr.Shridhar.K.S. Subject 1) Dr.Rajashekar.K. Industry / Mr. Sreenivas Ramanujam. Alumnus Mr. Vijay.Upadhyay. Internal 1) Dr.S.M.Jošhi. Dr.M.Jošhi.

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SDM COLLEGE OF ENGINEERING & TECHNOLOGY, DHARWAD DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Date: 29-06-2021

UG - BOS - Minutes of meeting

The Undergraduate program Board of Studies (BoS) meeting was conducted in **online mode** on **19-06-2021** and **20-06-2021**.

Resolutions:

1. The external and internal members of BoS, faculty members of CSE department approved the course contents of VII & VIII semesters of B.E. (CSE).

Suggestions:

The following are the discussions / suggestions given in the meeting for the syllabus presented to the External / Internal BoS members and the faculty members of CSE:

- Dr. RBV Subramaanyam (NIT, Warangal) elaborated on the finer points of National Eduction Policy (NEP) 2020. Further, the issues and challenges in the NEP implementations were also discussed.
- **Dr. Shreedhara.K.S.** (**UBDT, Davangere**) mentioned that the syllabus of a course should have *Textbooks* mentioned separately along with *Reference books*. In the absence of Textbooks, it will become inconvenient for the proper reference for the external examiners while setting the Question paper.
- Mr. Vijay Upadhyay (Torry Harris Integration Solutions, Bengaluru) insisted on the inclusion of appropriate Laboratory tools in the laboratory courses.
- **Dr. Rajshekar K**. (**IIT, Dharwad**) mentioned to look into the syllabus of Advanced Computer Architecture because there is a Unit with the heading 'Software for Parallel Programming', but contents are more of hardware.

- **Dr. Shreedhara.K.S.** suggested to add laboratory component in the syllabus of Advanced Computer Architecture (ACA). For instance, Architecture based simulators for performance measurements.
- Mr. Sreenivas Ramanujam (Tata Consultancy Services, Bengaluru) and Dr. Shreedhara.K.S. expressed the concern of relevance of enhancing internship takeaways. Further, they suggested taking measures in the curriculum to check the students' learning on industry culture.
- Mr. Sreenivas Ramanujam also suggested for organizing 'think-tank meet' at the department level for showcasing the internship learnings to the peers.
- Mr. Vijay Upadhyay recommended including 'Automation testing' in Software Testing.
- **Dr. Shreedhara.K.S.** and **Mr. Vijay Upadhyay** expressed to include / exchange new electives like Blockchain, Cryptocurrency, etc. in the department elective pools.
- The elective 'Mobile Application Development' may be replaced with 'Blockchain technologies'.
- All the external BoS members suggested for floating electives chosen from M. Tech. so that the subject groups can be formed to enhance the level of learning.
- Mr. Shreedhara suggested adding one unit in Data Science course 'Mathematics in Data Science'.
- Mr. Vijay Upadhyay commented that there are overlapping topics in two different courses Data Science and Machine learning, which may be rectified; some of the topics of Data science also appear in Machine learning and vice-versa.
- Also, the members mentioned that there is a need for demonstrative assignments in Distributed systems, especially on HDFS.

The suggestions may be incorporated with the approvals of the concerned authority at the institution based on the feasibility.

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(Dr. U.P.Kulkarni)

 $\boldsymbol{HOD-CSE}$

SDM COLLEGE OF ENGINEERING & TECHNOLOGY, DHARWAD DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Date: 29-06-2021

PG-BOS - Minutes of meeting

The Postgraduate program Board of Studies (BoS) meeting was conducted in **online mode** on **20-06-2021**.

Resolutions:

1. The external and internal members of BoS, faculty members of CSE department approved the course contents of III & IV semesters of M Tech. (CSE).

Suggestions:

- 1. Durations for internship is less, minimum of 12 weeks
- 2. All electives must be grouped into a single list, student can take any elective in any semester.
- 3. More practical exposure to the students
- 4. Encourage the students to take in house project and open-source project
- 5. Along with Reference book include Text-Book which will help external examiner to set the question papers

The suggestions may be incorporated with the concerned authority at the institution based on the feasibility.

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(Dr. U.P.Kulkarni)

HOD-CSE