



KLE Technological
University

Creating Value
Leveraging Knowledge

Minutes

5th Board of Studies Meeting

of

School of Computer Science and Engineering

Hubballi, Karnataka

13th April 2019

KLE Technological University

(Established under Karnataka Act No.22, 2013)

REGISTRAR
KLE Technological University
HUBBALLI-580 031



School of Computer Science and Engineering
KLE Tech University
BVBCET Campus, Hubballi -31

The following are the minutes of the Board of Studies meeting of SoCSE, KLE Technological University, Hubballi which was held on 13th April 2019 at 09:00 am at the C-lite Board Room.

The following members were present.

Sr	Name	Designation	Position
1.	Dr. Meena S. M.	Professor & Head of the School/ Department	Chairman
2.	Dr. V. P. Baligar	Professor, Dean's nominee	Member
3.	Dr. Narayan D. G.	Associate Professor, Dean's nominee	Member
4.	Prof. Vidya Handur	Associate Professor, Dean's nominee	Member
5.	Prof. Prakash Hegde	Assistant Professor, nominated by the concerned Head of the Department/ School	Member
6.	Dr. Kavi Mahesh	Subject expert from outside the college nominated by the Vice-Chancellor	Member
7.	Dr. Pradeep V. Desai	Representative from industry corporate sector/ allied area relating to placement nominated by the Vice-Chancellor	Member
8.	Mr. Raju Dixit	Representative from industry corporate sector/ allied area relating to placement nominated by the Vice-Chancellor	Member
9.	Dr. Shankar G.	Associate Professor, Dean's nominee	Member Secretary
10.	Mr. Shashidhar V.	Post graduate meritorious alumnus nominated by Vice Chancellor.	Member
11.	Ms. Sindhu B. Hegde	Student Member representing each of the program offered by the Department/ School/ Center	Member

Agenda

SI No	Particulars	Page No.
5.1	To welcome the BoS Members and present department achievements & initiatives	
5.2	To read and confirm the minutes of 4 th BoS meeting held on 4 th April 2018	
5.3	To confirm the action taken report on the minutes of the previous meeting held on 7th April 2018	
5.4	To consider the Schemes and Syllabi of the undergraduate program B.E in Computer Science and approve the same. a. Academic Initiatives b. Ratification of scheme for 2016-20, 2017-21, 2018-22 batch. c. Approval of syllabi VII & VIII Semester of 2016 - 20 batch. d. Approval of syllabi V & VI Semester of 2017 - 21 batch. e. Approval of syllabi III & IV Semester of 2018 - 22 batch. f. Approval of programming syllabus I & II Semester of 2019 - 23 batch. g. Approval of scheme III to VIII Semester of 2019 - 23 batch. h. Approval of scheme and syllabus of minor programme in CSE for 2020-22 batch	
5.5	To consider the Schemes and Syllabi of the postgraduate program in CSE. a. Approval of the scheme & syllabi of 2019 - 21 batch.	
5.6	Any other matter for discussion with the permission of the chair	


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BoS 5.1	To welcome the BoS Members and present department achievements & initiatives and discussed about the inputs from all stake holders. (Annexure 5.1)
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Resolution 5.1: The BoS members appreciated the initiatives of SoCSE and lauded its achievements.

BoS 5.2	To read and confirm the minutes of 4th BoS meeting held on 7th April 2018
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The following are the minutes of the Board of Studies meeting of SoCSE, KLE Technological University, Hubballi which was held on 7th April 2018 at 10:30 am at the Senate Hall of the University.

The following members were present.

Sr	Name	Designation	Position
1.	Dr. Meena S. M.	Professor & Head of the School	Chairman
2.	Dr. G. H. Joshi	Professor , Dean's nominee	Member
3.	Dr. V. P. Baligar	Professor, Dean's nominee	Member
4.	Dr. S.R. Chickerur	Professor, Dean's nominee	Member
5.	Dr. S.G. Totad	Professor, Dean's nominee	Member
6.	Dr. Karibasappa K.G.	Professor, Dean's nominee	Member
7.	Prof . Narayan D. G.	Associate Professor,Dean's nominee	Member
8.	Prof. VidyaHandur	Associate Professor , Dean's nominee	Member
9.	Prof. Prakash Hegde	Assistant Professor nominated by the concerned Head of the Department/ School	Member
10.	Prof.Phalachandra HL	Subject expert from outside the collegenominated by the Vice-Chancellor	Member
11.	Mr. Ram Jakati	Representative from industry corporate sector/ allied area relating to placement nominated by the Vice-Chancellor	Member
12.	Mr. Shashikumar G.	Representative from industry corporate sector/ allied area relating to placement nominated by the Vice-Chancellor	Member
13.	Mr. Santosh Pawar	Representative from industry corporate sector/ allied area relating to placement nominated by the Vice-Chancellor	Member
14.	Prof. Shankar G.	Associate Professor Dean's nominee	Member Secretary

Item No.	Description
BoS 4.1	To welcome the BoS Members and present department achievements & initiatives and discussed about the inputs from all stake holders. (Annexure 4.1) Resolution 4.1: The BoS members appreciated the initiatives of SoCSE and lauded its achievements.
BoS 4.2	To read and confirm the minutes of 3rd BoS meeting held on 1st April 2017 Resolution 4.2: Resolved to confirm the minutes of its 2 nd BoS meeting held on 18th March 2016
BoS 4.3	To confirm the action taken report on the minutes of the previous meeting held on 1st April 2017 Resolution: 4.3 Resolved to confirm the action taken report on the minutes of its 3 rd BoS meeting held on 1st April 2017. The BoS members appreciated the new initiatives taken by SoCSE.
BoS 4.4	To consider the Schemes and Syllabi of the undergraduate program B.E in Computer Science and approve the same. a. Approval of syllabi VII & VIII Semester of 2015 - 19 batch. b. Ratification of scheme for 2016 - 20, 2017 - 21 batch. c. Approval of syllabi V & VI Semester of 2016 - 20 batch.

- d. Approval of syllabi III & IV Semester of 2017 - 21 batch.
- e. Approval of syllabus I/II Semester of 2018 - 22 batch.
- f. Approval of scheme III to VIII Semester of 2018 - 22 batch.
- g. Minor Programme in CSE for 2019 -21 batch.

Discussion: Based on the discussions following action, items as agreed upon by everyone were finalized and the same were circulated to all the members on 02nd April 2016. Persons responsible for these action items have already initiated the actions, which will be shared the next BoS meeting. The details of discussion are in **Annexure 4.4**.

Action item No.1: To improve problem solving skills at freshman year

- 1) Problem Solving with DS (18ECSP102).

Action Item No.2: Students should have the ability to apply mathematical concepts and fundamental knowledge of core courses to solve computer science engineering problems.

- 1) Discrete Mathematical Structures- 19ECSC202-(3-1-0)
- 2) Principles of Compiler Design -19ECSC203 -(3-1-0)

Action Item No.3: Hands on implementation of protocols in networking

- 1) Computer Networks-2- 19ECSC303-(2-0-1.5)

Action Item No.4: To enable students to build solutions for big data applications using current industrial tools.

- 1) Big data analytics (17ECSC401)

Action Item No.5: the students should be able to design and develop a solution using software design principles

- 1) Senior Design project (20ECSW401) – (0-0-6)

Action Item No.6: Elective for electrical sciences that is focused towards AI/ML job profiles.

- 1) Embedded Intelligent System(18ECSE302)

Action Item No.7: Electives in all three verticals to be introduced student profile towards targeted job profile.

- 1) Wireless Adhoc& Sensor Networks -18ECSE406 - (3-0-0)
- 2) Advanced Parallel Computing - 18ECSE408 - (3-0-0)
- 3) Natural Language Processing -18ECSE403 - (3-0-0)
- 4) Software Architecture and Design Thinking -18ECSE410 - (3-0-0)
- 5) Model Thinking - 18ECSE411 - (3-0-0)
- 6) Computer Networks-1- 19ECSC302 -(3-1-0)
- 7) Java Programming -19ECSP301 - (1-0-1.5) - New Course
- 8) Semantic Web – 19ECSE303 – (3-0-0)
- 9) Block Chain Technology – 19ECSE301-(2-0-1)
- 10) The ARM Architecture – 19ECSE302-(2-1-0)

Action Item No.8: to cater to above average students to enhance research skills in focused domains of networking, data analytics and AI/ML.

- 1) REU (17ECSE490)
- 2) IRP(17ECSE491)

Resolution 4.4: Resolved to approve the Schemes and Syllabi of the undergraduate program B.E in Computer Science and approve the same.

- a. Approval of syllabi VII & VIII Semester of 2015 - 19 batch.
- b. Ratification of scheme for 2016 - 20, 2017 - 21 batch.
- c. Approval of syllabi V & VI Semester of 2016 - 20 batch.
- d. Approval of syllabi III & IV Semester of 2017 - 21 batch.
- e. Approval of syllabus I/II Semester of 2018 - 22 batch.

	<p>f. Approval of scheme III to VIII Semester of 2018 - 22 batch.</p> <p>g. Minor Programme in CSE for 2019 -21 batch.</p>
BoS 4.5	<p>To consider the Schemes and Syllabi of the postgraduate program.</p> <p>a) Approval of (scheme & syllabi) of 2018 - 20 batch.</p> <p>Discussion: Based on the discussions following action, items as agreed upon by everyone were finalized and the same were circulated to all the members on 02nd April 2016. Persons responsible for these action items have already initiated the actions, which will be shared the next BoS meeting.</p> <p>Action Item No.1: New Courses added</p> <ol style="list-style-type: none"> 1. Applied Mathematics 2. Internet of Things 3. Computer Networks 4. Data Structure Lab 5. Python Programming Lab 6. Design and Analysis of Algorithms 7. Distributed and Cloud Computing 8. Machine Learning 9. Software Engineering 10. Image and Video Processing 11. Cryptography and Network security 12. PPEE 13. Embedded systems 14. CG and Vision 15. Parallel Computing 16. Social Network analysis 17. Wireless and Mobile Networks 18. Minor Project <p>Resolution 4.5: Resolved to approve the Schemes and Syllabi of the postgraduate program.</p> <p>a) Approval of (scheme & syllabi) of 2018 - 20 batch.</p>
BoS 4.6	<p>Any other matter for discussion with the permission of the chair</p> <p>Nil</p>


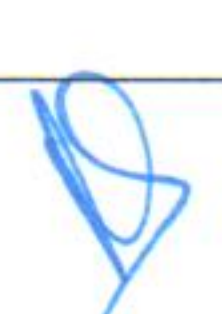
Resolution 5.2: Resolved to confirm the minutes of its 4th BoS meeting held on 7th April 2018


BoS 5.3	To confirm the action taken report on the minutes of the previous meeting held on 7th April 2018	
Item No	Description	Action Taken
BoS 4.1	To welcome the BoS Members and present department achievements & initiatives and discussed about the inputs from all stake holders. <u>(Annexure 4.1)</u> Resolution 4.1: The BoS members appreciated the initiatives of SoCSE and lauded its achievements.	Noted
BoS 4.2	To read and confirm the minutes of 3 rd BoS meeting held on 1st April 2017 Resolution 4.2: Resolved to confirm the minutes of its 2 nd BoS meeting held on 18th March 2016	Noted
BoS 4.3	To confirm the action taken report on the minutes of the previous meeting held on 1st April 2017 Resolution: 4.3 Resolved to confirm the action taken report on the minutes of its 3 rd BoS meeting held on 1st April 2017. The BoS members appreciated the new initiatives taken by SoCSE.	Noted


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<p>BoS 4.4</p>	<p>To consider the Schemes and Syllabi of the undergraduate program B.E in Computer Science and approve the same.</p> <ol style="list-style-type: none"> Approval of syllabi VII & VIII Semester of 2015 - 19 batch. Ratification of scheme for 2016 - 20, 2017 - 21 batch. Approval of syllabi V & VI Semester of 2016 - 20 batch. Approval of syllabi III & IV Semester of 2017 - 21 batch. Approval of syllabus I/II Semester of 2018 - 22 batch. Approval of scheme III to VIII Semester of 2018 - 22 batch. Minor Programme in CSE for 2019 -21 batch. <p>Discussion: Based on the discussions following action, items as agreed upon by everyone were finalized and the same were circulated to all the members on 02nd April 2016. Persons responsible for these action items have already initiated the actions, which will be shared the next BoS meeting. The details of discussion are in Annexure 4.4.</p> <p>Action itemNo.1: To improve problem solving skills at freshman year</p> <ol style="list-style-type: none"> Problem Solving with DS (18ECSP102). <p>Action Item No.2: Students should have the ability to apply mathematical concepts and fundamental knowledge of core courses to solve computer science engineering problems.</p> <ol style="list-style-type: none"> Discrete Mathematical Structures- 19ECSC202-(3-1-0) Principles of Compiler Design -19ECSC203 -(3-1-0) <p>Action Item No.3: Hands on implementation of protocols in networking</p> <ol style="list-style-type: none"> Computer Networks-2- 19ECSC303-(2-0-1.5) <p>Action Item No.4: To enable students to build solutions for big data applications using current industrial tools.</p> <ol style="list-style-type: none"> Big data analytics (17ECSC401) <p>Action Item No.5: the students should be able to design and develop a solution using software design principles</p> <ol style="list-style-type: none"> Senior Design project (20ECSW401) – (0-0-6) <p>Action Item No.6: Elective for electrical sciences that is focused towards AI/ML job profiles.</p> <ol style="list-style-type: none"> Embedded Intelligent System(18ECSE302) <p>Action Item No.7: Electives in all three verticals to be introduced student profile towards targeted job profile.</p> <ol style="list-style-type: none"> Wireless Adhoc& Sensor Networks -18ECSE406 - (3-0-0) Advanced Parallel Computing - 18ECSE408 - (3-0- 	<p>The BoS members noted the progress of the School and recommended certain action items and timeline.</p> <p>Action itemNo.1: To improve problem solving skills at freshman year</p> <ol style="list-style-type: none"> Problem Solving with DS (18ECSP102). <p>ATR: A new course problem solving is introduced at freshman level for electrical sciences to appreciate use of appropriate data structures for algorithmic optimization.</p> <p>Action Item No.2: Students should have the ability to apply mathematical concepts and fundamental knowledge of core courses to solve computer science engineering problems.</p> <ol style="list-style-type: none"> Discrete Mathematical Structures- 19ECSC202-(3-1-0) Principles of Compiler Design -19ECSC203 -(3-1-0) <p>ATR:</p> <ol style="list-style-type: none"> Tutorials included in Discrete Mathematical Structures- 19ECSC202 to work on applications of DMS in solving computer science problems. Principles of Compiler Design -19ECSC203 is introduced for designing of context free grammars (CFG) for a given language and self-exploration of tools for building the phases of compiler using tools. <p>Action Item No.3: Hands on implementation of protocols in networking</p> <ol style="list-style-type: none"> Computer Networks-1- 19ECSC302 -(3-1-0) Computer Networks-2- 19ECSC303-(2-0-1.5) <p>ATR: CN-2 is integrated with a lab course to hands on experience on routing security protocols and application layer protocols.</p> <p>Action Item No.4: To enable students to build solutions for big data applications using current industrial tools.</p> <ol style="list-style-type: none"> Big data analytics (17ECSC401) <p>ATR: To enable students to pre-process and handle big data and build application using mongoDB, HIVE, Casandra etc.</p> <p>Action Item No.5: the students should be able to design and develop a solution using software design principles</p> <ol style="list-style-type: none"> Senior Design project (20ECSW401) – (0-0-6)
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<p>0)</p> <p>3) Natural Language Processing -18ECSE403 - (3-0-0)</p> <p>4) Software Architecture and Design Thinking - 18ECSE410 - (3-0-0)</p> <p>5) Model Thinking - 18ECSE411 - (3-0-0)</p> <p>6) Computer Networks-1- 19ECSC302 -(3-1-0)</p> <p>7) Java Programming -19ECSP301 - (1-0-1.5) - New Course</p> <p>8) Semantic Web – 19ECSE303 – (3-0-0)</p> <p>9) Block Chain Technology – 19ECSE301-(2-0-1)</p> <p>10) The ARM Architecture – 19ECSE302-(2-1-0)</p> <p>Action Item No.8: to carte to above average students to enhance research skills in focused domains of networking, data analytics and AI/ML.</p> <p>3) REU (17ECSE490)</p> <p>4) IRP(17ECSE491)</p> <p>Resolution 4.4: Resolved to approve the Schemes and Syllabi of the undergraduate program B.E in Computer Science and approve the same.</p> <p>a. Approval of syllabi VII & VIII Semester of 2015 - 19 batch.</p> <p>b. Ratification of scheme for 2016 - 20, 2017 - 21 batch.</p> <p>c. Approval of syllabi V & VI Semester of 2016 - 20 batch.</p> <p>d. Approval of syllabi III & IV Semester of 2017 - 21 batch.</p> <p>e. Approval of syllabus I/II Semester of 2018 - 22 batch.</p> <p>f. Approval of scheme III to VIII Semester of 2018 - 22 batch.</p> <p>g. Minor Programme in CSE for 2019 -21 batch.</p> <p style="text-align: right;">  REGISTRAR KLE Technological University HUBBALLI-580 031 </p>	<p>ATR: SDP aims to design and develop a solution using software design principles: - design patterns (creational, behavioral structural), User experience (UX) design and API (application programming interface) that are generally followed in industries.</p> <p>Action Item No.6: Elective for electrical sciences that is focused towards AI/ML job profiles.</p> <p>1) Embedded Intelligent System(18ECSE302)</p> <p>ATR: To apply knowledge of AI and deep learning algorithms on embedded systems using android technology to enrich students understanding to port model on embedded platform.</p> <p>Action Item No.7: Electives in all three verticals to be introduced for mapping student profile towards targeted job profile.</p> <p>ATR:</p> <p>1) Electives like model thinking are introduced to build real time applications using model systems and linear time model analysis. Model Thinking - 18ECSE411</p> <p>2) Semantic web involving tools and analyze the web data is introduced to enhance employment opportunities. Semantic Web – 19ECSE303</p> <p>3) An elective NLP introduced for students interested in AI/ML applications. Natural Language Processing -18ECSE403</p> <p>4) Block chain technology and Java programming are introduced for current needs. Block Chain Technology – 19ECSE301 Java Programming -19ECSP301</p> <p>5) Wireless adhoc & sensor networks and ARM architecture are introduced to expose students for IoT based applications in automotive industry. Wireless Adhoc& Sensor Networks -18ECSE406 The ARM Architecture – 19ECSE302</p> <p>6) Advanced parallel computing is introduced to provide knowledge and programming skills for current parallel architectures. Advanced Parallel Computing - 18ECSE408</p> <p>7) SADT is introduced to enable students to appreciate design thinking is an approach to problem solving that puts users at the centre of the solution. Software Architecture and Design Thinking - 18ECSE410</p> <p>Action Item No.8: to carte to above average students to enhance research skills in focused domains of networking, data analytics and AI/ML.</p> <p style="text-align: right;"></p>
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		<p>1) REU (17ECSE490) 2) IRP(17ECSE491)</p> <p>ATR:</p> <p>1) IRP/SRP/REU projects in specialized domains introduced to enhance research skills in focused domain of networking, data analytics and AI/ML.</p> <p>2) A course on institutional research project (IRP) is introduced to provide students an exposure for solving real time projects involving current technologies using KLETech eco systems as a live lab.</p> <p>3) A course REU is introduced to enable students to take part in the research activities in their future career during and beyond their academia. It also helps them to experience and learn to identify, solve and evaluate engineering solution for current real time problems.</p>
<p>BoS 4.5</p>	<p>To consider the Schemes and Syllabi of the postgraduate program in CSE.</p> <p>a) Approval of (scheme & syllabi) of 2018 - 20 batch.</p> <p>Discussion: Based on the discussions following action, items as agreed upon by everyone were finalized and the same were circulated to all the members on 02nd April 2016. Persons responsible for these action items have already initiated the actions, which will be shared the next BoS meeting.</p> <p>Action Item No.1: New Courses added</p> <ol style="list-style-type: none"> 1. Applied Mathematics 2. Internet of Things 3. Computer Networks 4. Data Structure Lab 5. Python Programming Lab 6. Design and Analysis of Algorithms 7. Distributed and Cloud Computing 8. Machine Learning 9. Software Engineering 10. Image and Video Processing 11. Cryptography and Network security 12. PPEE 13. Embedded systems 14. CG and Vision 15. Parallel Computing 16. Social Network analysis 17. Wireless and Mobile Networks 18. Minor Project <p>Resolution 4.5: Resolved to approve the Schemes and Syllabi of the postgraduate program.</p> <p>b) Approval of (scheme & syllabi) of 2018 - 20 batch.</p>	<p>The BoS members noted the progress of the School and recommended certain action items and timeline.</p> <p>Action Item No.4: Identify industries in focus areas. ATR: Discussion with industries from Infosys, KPIT, Continental, and other industries.</p> <p>Action Item No.5: Identify industries for Internships. ATR: Identified about 10 industries, and discussions are at initial stage.</p> <div style="text-align: right; margin-top: 20px;">  REGISTRAR KLE Technological University HUBBALLI-580 031 </div>



BoS 4.6	Any other matter for discussion with the permission of the chair	
	Nil	

Resolution: 5.3 Resolved to confirm the action taken report on the minutes of its 4th BoS meeting held on 7th April 2018. The BoS members appreciated the new initiatives taken by SoCSE.

BoS 5.4	To consider the Schemes and Syllabi of the undergraduate program B.E in Computer Science and approve the same. <ol style="list-style-type: none"> Ratification of scheme for 2016-20, 2017-21, 2018-22 batch. Approval of syllabi VII & VIII Semester of 2016 - 20 batch. Approval of syllabi V & VI Semester of 2017 - 21 batch. Approval of syllabi III & IV Semester of 2018 - 22 batch. Approval of programming syllabus I & II Semester of 2019 - 23 batch. Approval of scheme III to VIII Semester of 2019 - 23 batch. Approval of scheme and syllabus of minor programme in CSE for 2020-22 batch
	<p>Discussion: Based on the discussions following action, items as agreed upon by everyone were finalized and the same were circulated to all the members on 13th April 2019. Persons responsible for these action items have already initiated the actions, which will be shared the next BoS meeting. The details of discussion are in Annexure 5.4.</p> <p>Action Item No.1: Upgradation in skill sets for distributed storage</p> <ol style="list-style-type: none"> DCC (17ECSC305) <p>Action Item No.2: Introduction of electives in security domain</p> <ol style="list-style-type: none"> Cyber Security (19ECSE401) <p>Action Item No.3: Knowledge and application of software design principles and focus on leveraging libraries, creating architecture, detailed design and qualitative evaluation.</p> <ol style="list-style-type: none"> Senior Design project (20ECSW401) <p>Action Item No.4: To enable students to work in process automation with the knowledge to automate, create and debug process.</p> <ol style="list-style-type: none"> Robotic process automation (20ECSE301) <p>Action Item No.5: Introduced to enhance research skills in focused domain of networking, data analytics and AI/ML</p> <ol style="list-style-type: none"> SRP(19ECSE493) <p>Action Item No.6: To encourage students on focus on mathematical skills for research oriented applications.</p> <ol style="list-style-type: none"> Fuzzy Set Theory -19ECSE402

Resolution 5.4: Resolved to approve the Schemes and Syllabi of the undergraduate program B.E in Computer Science and approve the same.

- Ratification of scheme for 2016-20, 2017-21, 2018-22 batch.
- Approval of syllabi VII & VIII Semester of 2016 - 20 batch.
- Approval of syllabi V & VI Semester of 2017 - 21 batch.
- Approval of syllabi III & IV Semester of 2018 - 22 batch.
- Approval of programming syllabus I & II Semester of 2019 - 23 batch.
- Approval of scheme III to VIII Semester of 2019 - 23 batch.
- Approval of scheme and syllabus of minor programme in CSE for 2020-22 batch

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BoS 5.5	To consider the Schemes and Syllabi of the postgraduate program. a) a. Approval of scheme & syllabi of 2019 - 21 batch.
	Discussion: Based on the discussions following action, items as agreed upon by everyone were finalized and the same were circulated to all the members on 02 nd April 2016. Persons responsible for these action items have already initiated the actions, which will be shared the next BoS meeting. Action Item No.1: New Courses added <ol style="list-style-type: none">1. Parallel Computing 19ECSE7172. Industrial Training / Mini Project 19ECSW8013. Project Phase – I 19ECSW801

Resolution 5.5: Resolved to approve the Schemes and Syllabi of the postgraduate program.
a. Approval of scheme & syllabi of 2019 - 21 batch.

BoS 5.6	Any other matter for discussion with the permission of the chair
	Nil

The Chairperson thanked all the members for the fantastic contributions

Dr. Meena S.M.

Chairperson, BoS, SoCSE


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Annexure 5.1
Discussion Item
<p>Feedback from Employee</p> <ol style="list-style-type: none"> 1. The students need to focus on Weka, orange, Tableau tools usage in the data preprocessing in DMA and ML. 2. The students need to be exposed to Industry related project problem statements. 3. The students are able to answer theoretically on the technical topics however; they could not apply the same to a practical situation. 4. Improve the fundamentals in core courses and enhance the fundamental skills and analytical skills. 5. The students need to exposed technical skills and awareness of industry trends in the field of data management. <p>Feedback from Faculty --- Pre BoS MOM</p> <ol style="list-style-type: none"> 1. To enhance the automation technology tools skills in the domain of robotic process. 2. To introduce course on Block chain Technology to cater to industry requirements. <p>Course Feedback:</p> <ol style="list-style-type: none"> 1. Students requested to conduct training from industry experts on cyber security and information security. 2. The students requested to have workshops and hackathons to improve programming skills. <p>Feedback from Alumni:</p> <ol style="list-style-type: none"> 1. To inculcate innovation, IPR, entrepreneurship skills to be brought into practice by organizing or attending workshops. Inclusions of version controlling in GitHub can be adopted. 2. To identify set of companies to focus on industry-student profile match 3. Industry institute collaborations need to be increased in the focused area of networks and data analytics.

Feedback for PG

1	Observations/ Recommendations based on feedback
<p>Feedback from Employee</p> <ol style="list-style-type: none"> 1. Since Major Revisions of the courses were made previous year, no revisions are suggested to the courses taught. 2. Industrial Training / Mini Project and Project Work Phase One is included in Third Semester and Project Work Phase two is included in Fourth Semester. <p>Feedback from Alumni:</p> <ol style="list-style-type: none"> 1. Since Major Revisions of the courses were made previous year, no revisions are suggested to the courses taught. 2. Industrial Training / Mini Project and Project Work Phase One is included in Third Semester and Project Work Phase two is included in Fourth Semester. <p>Feedback from Faculty --- Pre BoS MOM</p> <ol style="list-style-type: none"> 1. Since Major Revisions of the courses were made previous year, no revisions are suggested to the courses taught. 2. Industrial Training / Mini Project and Project Work Phase One is included in Third Semester and Project Work Phase two is included in Fourth Semester. <p>Course Feedback:</p>	

1. Since Major Revisions of the courses were made previous year, no revisions are suggested to the courses taught.
2. Industrial Training / Mini Project and Project Work Phase One is included in Third Semester and Project Work Phase two is included in Fourth Semester.

Annexure 5.4	
Discussion Item	
Actions taken: Based on the feedback from stakeholders, employers, faculty, alumni and students the following actions are initiated.	Course Revised/ Added
	Courses Revised:
Inclusion of storage from cloud, SaaS and skills for distributed storage in DCC course	DCC (17ECSC305)
The training sessions are carried out in cyber security course for incremental adding of security to the software namely password at first level, including captcha, one-time password (OTP), encryption and decryption during data communication.	Cyber Security (19ECSE401)
<ol style="list-style-type: none"> 1. Introduction of senior design project (20ECSW401) to focus on leveraging libraries, creating architecture, detailed design and qualitative evaluation. 2. SDP aims to design and develop a solution using software design principles:- design patterns (creational, behavioral & structural) , User experience (UX) design and API (application programming interface) that are generally followed in industries. 	Senior Design project (20ECSW401)
	Courses Introduced:
Robotic process automation (20ECSE301) course is introduced to automate, create and debug fundamentals using UiPath studio.	Robotic process automation (20ECSE301)
SRP projects in specialized domains introduced to enhance research skills in focused domain of networking, data analytics and AI/ML.	SRP(19ECSE493)
Introduction of fuzzy set theory to implement the concepts of fuzzy functions and logic to problems in image processing and pattern recognition.	Fuzzy Set Theory -19ECSE402 (3-0-0)

Annexure 5.5		
Discussion Item		
Actions taken	Course Revised/ Added	BoS approved Date
<ol style="list-style-type: none"> 1. Since Major Revisions of the courses were made previous year, no revisions are made to the courses taught. 2. Industrial Training / Mini Project and Project Work Phase One is included in Third Semester and Project Work Phase two is included in Fourth Semester. 	Parallel Computing 19ECSE717 Industrial Training / Mini Project 19ECSW801 Project Work Phase - I 19ECSW802	15-04-2019


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