



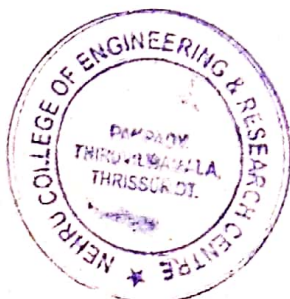
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2.6.1 - Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.

CATEGORY	DEPARTMENT	PAGE NO
PROGRAMME OUTCOME	COMPUTER SCIENCE & ENGINEERING	2
	ELECTRONICS & COMMUNICATION ENGINEERING	4
	ELECTRICAL & ELECTRONICS ENGINEERING	6
	MECHANICAL ENGINEERING	8
	MECHATRONICS	10
	MBA	12
	MCA	13



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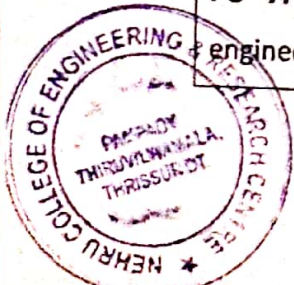


DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

PROGRAM OUTCOMES

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 modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- PO 6. The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- PO 7. Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the



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knowledge of, and need for sustainable development.

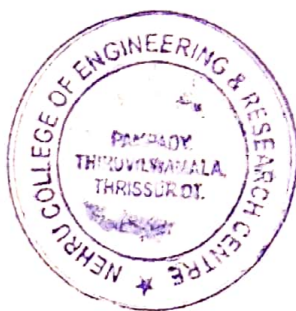
PO 8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.


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. Communication: 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 finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO 12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.




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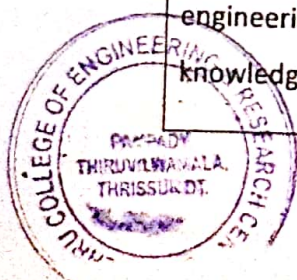


DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

PROGRAM OUTCOMES(POs)

Engineering Graduates will be able to:

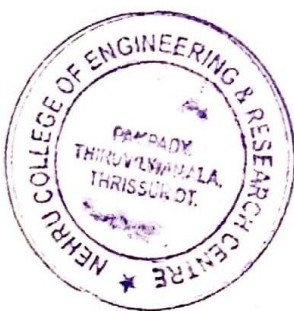
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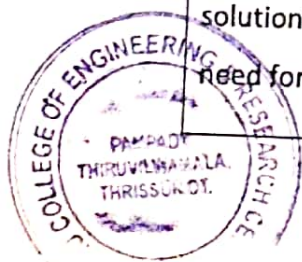


DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

PROGRAM OUTCOMES

Engineering Graduates will be able to:

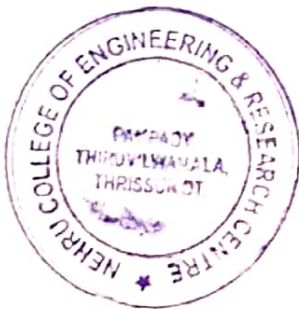
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- 8. Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
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DEPARTMENT OF MECHANICAL ENGINEERING

PROGRAM OUTCOMES

Engineering Graduates will be able to:

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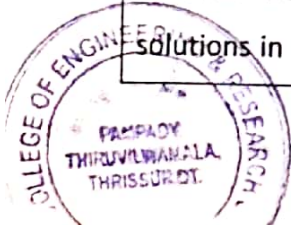
PO 3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

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 modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO 6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO 7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need



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for sustainable development.

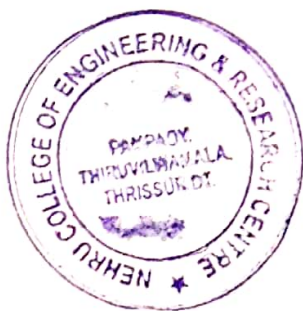
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DEPARTMENT OF MECHATRONICS ENGINEERING

PROGRAM OUTCOMES

Engineering Graduates will be able to:

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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.

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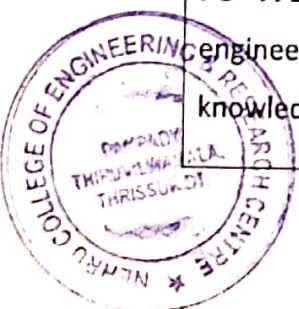
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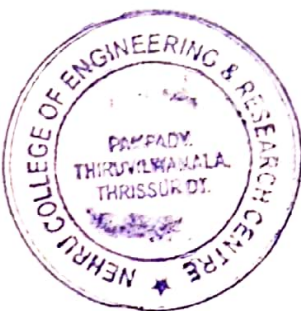
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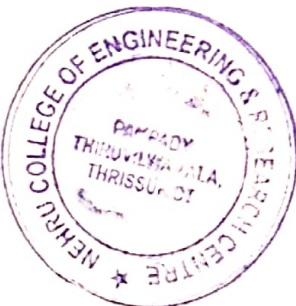


MASTER OF BUSINESS ADMINISTRATION

PROGRAM OUTCOMES

Nehru school of Management's MBA programme is a two year Post Graduate programme suitable for students from variety of backgrounds. The objective of the programme is to provide hands on learning experiences combined with practical classroom instruction to help the students develop with the essential business skills needed to effectively manage and lead organizations.

The programme will also help students to develop analytical ability along with management perspective and skills which is needed to provide leadership to organizations competing in a world increasingly characterized by diversity in the workforce, rapid technological change and a fiercely competitive global market place. The programme is designed to prepare students for careers in management and leadership in both private and public sectors. They will also be able to develop analytical tools for decision making.



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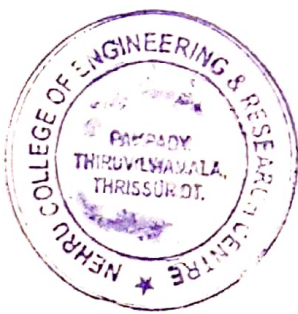
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MASTER OF COMPUTER APPLICATION

PROGRAM OUTCOMES

Course structure aimed to achieve creative outcomes:

- a. Results produced by the department were always good and rated above University average.
- b. Interpersonal skills and student bondage are excellent.
- c. Faculty- student monitoring always reaped successful results.
- d. Intercollegiate Festivals were conducted in a grand way.
- e. Technical Magazines published, with 100% making by students.
- f. Industrial visits organized with high end enthusiasm
- g. Celluloid projects released with good standards
- h. Increasing Alumni participation boosts the department value.




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01/08/2018

CIRCULAR

Subject: NCERC- Formation of course outcomes preparation committee- Regarding.

As per the directions of DAC meeting held on last month, it was decided to form the committee which includes the course coordinators and subject experts in various domains for framing the course outcomes as well as its mapping with program outcomes and program specific outcomes. The list of faculties and domains are mentioned below. The committee had to work on the 2015 regulation APJAKTU syllabus and reviewed all the subjects in the corresponding domain and prepares the course outcomes with relevant knowledge level by applying blooms taxonomy. The committee also ensures the mapping of the corresponding course out comes with the relevant POs and PSOs.

It is decided that Ms Shiji S, Assistant Professor, Computer Science and Engineering, has appointed as the chairman for the committee. The chairman of the committee should ensure the completion of all the course outcomes and its mapping on or before 1st October 2018.

Hereby I requested all the course coordinators to conduct meetings regularly and as much as early the draft of the COs and it's Mapping with POs & PSOs for all subjects in your domain and need to submit to the committee chairman on or before 15th September 2018.

Course Component	Subject Name	Course Coordinator	Subject Experts
MATHEMATICS	MA101 Calculus	Prof. Ramachandran Nair Prof & Head , Science and Humanities Department	Mr. Prabhu K
	MA102 Differential Equations		Ms. Ramadevi P
	MA201 Linear Algebra & Complex Analysis		Ms. Soumya
	CS201 Discrete Computational Structures		Sumesh
	MA202 Probability Distributions, Transforms And Numerical Methods		Ms. Divya P Ms Deepamol P S Ms. Milky C Ms. Sandhya A

			Ms. Jabitha
BASIC SCIENCE	PH100 Engineering Physics	Dr. Madhava Warriar Professor, Science and Humanities Department	Ms. Thushara K M Ms. Archana A
	PH110 Engineering Physics Lab		Mr. Jissan K A
	BE103 Introduction to Sustainable Engineering		Mr. Jithin Mohandas
	CY100 Engineering Chemistry		Mr. Midhunraj P K
	CY110 Engineering Chemistry Lab		
HUMANITIES	HS200 Business Economics	Dr. Jojo George Professor, Science and Humanities	Ms. Praseeja P
	HS210 Life Skills		Mr. Anoop Kumar
	HS300 Principles of Management		Mr. Rajkumar G
BASIC ENGINEERING COURSES	BE100 Engineering Mechanics	Mr. Ranjith P N Assistanat Professor, Mechatronics Engineering	Mr. Sanoj T
	BE110 Engineering Graphics		Mr. Manu Raj
	EC100 Basics of Electronics Engineering		Mr. David E
	EE100 Basics of Electrical Engineering		Mr. Jithin Mohandas
	ME100 Basics of Mechanical engineering		Mr. Midhunraj P K
	ME110 Mechanical Engineering Workshop		Mr Jithin Jose Kallada
	EC110 Electronics Engineering Workshop		Mr. Rahul M Nair
	BE102 Design and Engineering		Mr. Rajesh P
	EE110 Electrical Engineering Workshop		Mr. Niveth L
	BE 101-5 Introduction to computing and Problem Solving		Ms. Silja Varghese Ms. Mary Mareena Ms Shiji S
	CS110 Computer Workshop		Ms Sruthy M R Ms Biji K P
	CS 100 Computer Programming		Ms Anu Rinny Sunny

PROFESSIONAL CORE COURSES	CS 120 Computer Programming Lab	Dr.Dhanapal S Professor,HoD CSE Department	Ms Baby V Ms Divya K Ms. Deepthi C Mr.Manu G Thomas Ms Akhila Mr.Vipin K M Mr Vysagh M Mr.Girish R Mr. Arun K Ms. Decia
	CS205 Data Structures		
	CS 231 Data Structures Lab		
	CS 202 -Computer organization and architecture		
	CS204 Operating Systems		
	CS206 Object Oriented Design and Programming		
	CS208 Principles of Database Design		
	CS232 Free and Open Source Software Lab		
	CS301 Theory of Computation		
	CS303 System Software		
	CS 307 Data Communication		
	CS309 Graph Theory and Combinatorics		
	CS331 System Software Lab		
	CS333 Application Software Development Lab		
	CS302 Design and Analysis of Algorithms		
	CS 304 Compiler Design		
	CS 306 Computer Networks		
	CS 308 Software Engineering and Project Management		
	CS 401 Computer Graphics		
	CS 403 Programming Paradigms		
	CS 405 Computer System Architecture		
	CS 407 Distributed Computing		
	CS 409 Cryptography and Computer Security		
	CS 431 Compiler Design Lab		
	CS 402 Data mining and warehousing		
PROFESSIONAL ELECTIVES	CS361 Soft Computing	Mr.Arun k Assisstant Professor CSE Department	Ms Akhila Ms Decia Ms Deepthi C Ms. Denia Mr.Manu G Thomas Ms Biji K P Mr Vysagh M
	CS365 Optimization Techniques		
	CS367 Logic for Computer Science		
	CS362 Computer Vision		
	CS364 Mobile Computing		

	CS366 Natural Language Processing		Mr Girish R
	CS368 Web Technologies		
	CS372 High Performance Computing		
	CS461 Computational Geometry		
	CS465 Bio Informatics		
	CS467 Machine Learning		
	CS469 Computational complexity		
	CS462 Fuzzy Set Theory and Applications		
	CS464 Artificial Intelligence		
	CS466 Data Science		
	CS468 Cloud Computing		
	CS472 Principles of Information Security		
INTERDISCIPLINARY COURSES	CS203 Switching Theory and Logic Design	Ms.Sajitha S	Mr. Jithn Jose Kallada
	CS207 Electronics Devices & Circuits		Mr. Nithin Joe
	CS233 Electronics Circuits Lab		Ms Lisa C
	CS234 Digital Systems Lab		Ms. Mancy C
	CS404 Embedded Sytem		Ms. Bhavya
	CS305 Microprocessors and Microcontrollers		Mr. Rahul M Nair
	CS363 Signals and Systems		Ms. Aswathy P Nair
	CS369 Digital System Testing & Testable Design		Ms. Muhsina A
	CS463 Digital Image Processing		
PROJECT WORKS AND VIVA	CS341 Design Project	Mr.VYSAGH M	Ms.Shiji S
	CS 451 Seminar and Project Preliminary	Assisstant Professor	Mr.Arun K
	CS 492 Project	Cse Department	Ms Biji K P
	CS 352 Comprehensive Exam		

Copy to:

Principal, Course coordinators, Course outcome committee chairman, Subject experts.


Dr S Dhanapal

HoD CSE



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

COURSE OUTCOMES PREPERATION COMMITTEE

MINUTES OF MEETING – 07/08/2018


Based on the department circular dated on 01/08/2018, the first meeting for the preparation of course outcomes was conducted on 07/08/2018 at boardroom, Aryabhatta block. The meeting was started by 11.00AM sharply with the course outcomes formation committee chairman and the course Co-ordinators of the various domains in 2015 scheme APJKTU syllabus of Computer Science and Engineering. The following faculty members were attended the meeting

S no.	Name	Designation	Attendance
1	Dr.Dhanapal S	Professor,HoD ,CSE Department	
2	Ms.Shiji S	Chairman(Course outcomes preparation committee)	
3	Prof. Ramachandran Nair	Course Coordinator-Mathematics	
4	Dr. Madhava Warriar	Course Coordinator-Basic Science	
5	Dr. Jojo George	Course Coordinator-Humanities	
6	Mr. Ranjith P N	Course Coordinator-Basic Engineering Courses	
7	Dr.Dhanapal S	Course Coordinator-Professional Core Courses	
8	Mr. Arun K	Course Coordinator- Professional Electives	
9	Ms Sajitha S	Course Coordinator- Interdisciplinary Courses	
10	Mr.VYSAGH M	Course Coordinator- Project Work and Viva	

Ms. Shiji S, Chairman of the Course Outcomes preparation committee starts the session with a silent prayer in honour of our beloved Founder Chairman, Late Sri. P.K. Das. The following points were discussed;


Chairman of the committee addressed the meeting by making awareness of Vision, Mission and PEO of the department to the gatherings.

POINTS DISCUSSED

1. The committee reviewed the syllabus of 2015 regulation APJAKTU and discussed the level for Course Outcomes preparation based on Blooms Taxonomy.
2. The chairman of the committee requested for the action plan for the completion of course outcomes preparation and its mapping with POs and PSOs.
3. The committee reviewed the subject experts provided for each domain. 
4. The committee also referred some benchmarks of various reputed institutions and universities for the preparation of Course Outcomes.
5. The chairman of the committee requested all the course coordinators to conduct meeting on or before 10/08/2018 and requested to prepare the course outcomes for all the subjects in your corresponding domain as soon as possible.

ACTION TAKEN

1. The committee reviewed the subjects and relevant domains assigned. The course coordinators are satisfied with the allocated subject experts for the preparation of Course Outcomes.
2. The committee finalizes the levels of course outcomes can be decided by the team of course coordinator and subject expert and it can be varied subject to subject depending on the depth of content.
3. The chairman of the committee suggest all the Course coordinators to give an awareness of Knowledge level and how to prepare the Course Outcomes and its mapping with POs and PSOs in their first meeting itself.
4. The chairman of the committee also requested the Course coordinators to prepare suitable justification for all course outcomes with relevant knowledge level.
5. The chairman of the committee requested to submit the draft of Course outcomes and its Mapping on the next meeting held on 24/08/2018.


Chairman of the committee


HoD



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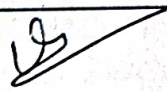



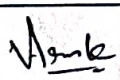

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

COURSE OUTCOMES PREPERATION COMMITTEE

MINUTES OF MEETING - 09/08/2018

Based on the department meeting dated on 07/08/2018, the first meeting for the preparation of course outcomes along with the faculty was conducted on 09/08/2018 at boardroom, Aryabhatta block. The meeting was started by 11.00AM sharply with the course outcomes formation committee chairman and the course Co-ordinators of the various domains in 2015 scheme APJAKTU syllabus of Computer Science and Engineering. The following faculty members were attended the meeting

S/no.	Name	Designation	Attendance
1	Dr.Dhanapal S	Professor, HoD ,CSE Département	
2	Ms Shiji S	Chairman(Course outcomes preparation committee)	
3	Ms. Mary Mareena	Asst.Professor, CSE	
4	Ms.Silja Varghese	Asst.Professor, CSE	
5	Ms Sruthy M R	Asst.Professor, CSE	
6	Ms Biji K P	Asst.Professor, CSE	
7	Ms Anu Rinny Sunny	Asst.Professor, CSE	
8	Ms Baby V	Asst.Professor, CSE	
9	Ms Divya K	Asst.Professor, CSE	
10	Ms. Deepthi C	Asst.Professor, CSE	
11	Mr.Manu G Thomas	Asst.Professor, CSE	

12	Mr. Vipin K M	Asst. Professor, CSE	
13	Mr Vysagh M	Asst. Professor, CSE	
14	Ms Akhila	Asst. Professor, CSE	
15	Mr. Girish R	Asst. Professor, CSE	
16	Mr. Arun K	Asst. Professor, CSE	
17	Ms. Decia	Asst. Professor, CSE	

Ms. Shiji S, Chairman of the Course Outcomes preparation committee starts the session with a silent prayer in honour of our beloved Founder Chairman, Late Sri. P.K. Das. The following points were discussed;

HoD addressed the meeting by making awareness of Vision, Mission and PEO of the department to the gatherings.

POINTS DISCUSSED

1. The chairman of the committee requested for the completion of course outcomes preparation and its mapping with POs and PSOs.
2. The committee referred some benchmark for the preparation of course outcomes.
3. The chairman suggested to prepare six outcomes for each courses.
4. The chairman suggested to prepare one outcome for each module.
5. The Chairman referred that all course outcome should be prepared with some knowledge level using Blooms taxonomy
6. The Chairman of the committee requested staff members to maintain the knowledge levels for each course outcome based on the courses
7. The Chairman suggest the preparation of justification for the course outcome and PO/PSO mapping
8. The chairman of the committee requested all the members to prepare the course outcomes for all the subjects in your corresponding domain as soon as possible.

ACTION TAKEN

1. All the Course coordinators to give an awareness of Knowledge level and how to prepare the

- Course Outcomes and its mapping with POs and PSOs in their first meeting itself.
2. Course coordinators to provide guidelines for the preparation of suitable justification for all course outcomes with relevant knowledge level.
 3. The chairman of the committee requested to submit the draft of Course outcomes and its Mapping on the next meeting held on 24/08/2018.



Chairman of the committee



HoD



NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE

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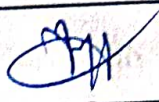


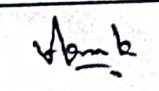

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

COURSE OUTCOMES PREPERATION COMMITTEE

MINUTES OF MEETING - 11/08/2018

Based on the department meeting dated on 09/08/2018, the second meeting for the preparation of course outcomes was conducted on 11/08/2018 at boardroom, Aryabhata block. The meeting was started by 10.00AM sharply with the course outcomes formation committee chairman and the course Co-ordinators of the various domains in 2015 scheme APJAKTU syllabus of Computer Science and Engineering. The following faculty members were attended the meeting

S/no.	Name	Designation	Attendance
1	Dr.Dhanapal S	Professor, HoD ,CSE Department	
2	Ms Shiji S	Chairman(Course outcomes preparation committee)	
3	Ms. Mary Mareena	Asst.Professor, CSE	
4	Ms.Silja Varghese	Asst.Professor, CSE	
5	Ms Sruthy M R	Asst.Professor, CSE	
6	Ms Biji K P	Asst.Professor, CSE	
7	Ms Anu Rinny Sunny	Asst.Professor, CSE	
8	Ms Baby V	Asst.Professor, CSE	
10	Ms. Deepthi C	Asst.Professor, CSE	
11	Mr.Manu G Thomas	Asst.Professor, CSE	
12	Mr.Vipin K M	Asst.Professor, CSE	

13	Mr Vysagh M	Asst.Professor, CSE	
14	Ms Akhila	Asst.Professor, CSE	
15	Mr.Girish R	Asst.Professor, CSE	
16	Mr. Arun K	Asst.Professor, CSE	
17	Ms. Decia	Asst.Professor, CSE	

Ms. Shiji S, Chairman of the Course Outcomes preparation committee starts the session with a silent prayer in honour of our beloved Founder Chairman, Late Sri. P.K. Das. The following points were discussed;

HoD addressed the meeting by making awareness of Vision, Mission and PEO of the department to the gatherings.


POINTS DISCUSSED

1. The chairman of the committee requested for the completion of course outcomes preparation and its mapping with POs and PSOs within the deadline
2. The committee add some points in the benchmark for the preparation of course outcomes.
3. The chairman of the committee requested all the members to prepare the course outcomes for all the subjects in your corresponding domain as soon as possible.

ACTION TAKEN

1. All the Course coordinators have a review on the draft prepared by faculty.
2. Course coordinators to provide guidelines for the correction of the course outcome
3. The course coordinator should submit draft before 24/08/2018


Chairman of the committee


HoD



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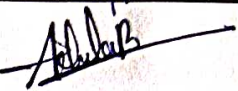
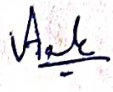


DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

COURSE OUTCOMES PREPERATION COMMITTEE

MINUTES OF MEETING - 01/10/2020

The first meeting for the preparation of course outcomes of 2019 scheme was conducted on 01/10/2020 at boardroom, Aryabhatta block. The meeting was started by 10.00AM sharply with the course outcomes formation committee chairman and the faculties of the various domain. Following faculty members were attended the meeting.

S/no.	Name	Designation	Attendance
1	Dr. P Sampath	Professor, HoD ,CSE Department	
2	Ms Shiji S	Chairman(Course outcomes preparation committee)	
3	Ms.Silja Varghese	Asst.Professor, CSE	
4	Ms Sruthy M R	Asst.Professor, CSE	
5	Ms Biji K P	Asst.Professor, CSE	
6	Ms Anu Rinny Sunny	Asst.Professor, CSE	
7	Ms Baby V	Asst.Professor, CSE	
8	Ms. Deepthi C	Asst.Professor, CSE	
9	Mr.Manu G Thomas	Asst.Professor, CSE	
10	Mr.Vipin K M	Asst.Professor, CSE	

11	Mr Vysagh M	Asst.Professor, CSE	
12	Ms Akhila	Asst.Professor, CSE	
13	Mr. Arun K	Asst.Professor, CSE	
14	Nisha A.K	Asst.Professor, CSE	
15	Divya S	Asst.Professor, CSE	

Ms. Shiji S, Chairman of the Course Outcomes preparation committee starts the session with a silent prayer in honour of our beloved Founder Chairman, Late Sri. P.K. Das. The following points were discussed;

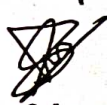
HoD addressed the meeting by making awareness of Vision, Mission and PEO of the department to the gatherings.

POINTS DISCUSSED

1. The chairman of the committee requested all the faculty to prepare the course outcome and mapping with PO/PSO
2. Chairman suggested the faculty to refer the course outcome and mapping defined in the syllabus.
3. The committee referred some benchmark for the preparation of course outcomes.
4. The chairman suggested to prepare five outcomes for each courses.
5. The chairman suggested to prepare one outcome for each module.
6. The Chairman referred that all course outcome should be prepared with some knowledge level using Blooms taxonomy
7. The Chairman of the committee requested staff members to maintain the knowledge levels for each course outcome based on the courses and make rearrangement of course outcome defined by university accordingly to the content.
8. The Chairman suggest the preparation of justification for the course outcome and PO/PSO mapping.
9. The chairman of the committee requested all the members to prepare the course outcomes for all the subjects in your corresponding domain as soon as possible.

ACTION TAKEN

1. All the faculty need to prepare course outcome and mapping
2. Course coordinators have to provide guidelines for the preparation of suitable justification for all course outcomes with relevant knowledge level.
3. The chairman of the committee requested to submit the draft of Course outcomes and its Mapping within fifteen working days



Chairman of the committee



HoD