SETHU INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)

Estd : 1995

MINUTES OF THE MEETING

Board of Studies of

Information Technology

SETHU INSTITUTE OF TECHNOLOGY

AN AUTONOMOUS INSTITUTION | ACCREDITED WITH 'A' GRADE BY NAAC

Pulloor-626115, KariapattiTaluk.Virudhunagar District.

DEPARTMENT OF INFORMATION TECHNOLOGY

MINUTES OF 8th BOARD OF STUDIES (BOS) MEETING HELD ON 28.08.2020

The meeting of the 8th Board of Studies in the Department of Information Technology was held on 28.08.2020 @03.00 PM in the IT Seminar Hall at Sethu Institute of Technology, Pulloor, Kariapatti through Online Platform. The Chairperson Dr.S.SivaRanjani initiated the meeting with a welcome address and presented the following Agenda of the meeting. The resources available in the department and the progress of the department were highlighted to the members of the BOS. A detailed presentation was also made.

- Presentation on Department Profile
- Approval of

    ➢ Department Vision, Mission, PEOs, POs and PSOs of the department.

    ➢ Analysis of the Stakeholders feedback regarding curriculum and syllabi.

    ➢ Discussion made in PAC meetings.

    ➢ Presentation of the Program Articulation Matrix, PO, PSO attainment and Gap Analysis.

    ➢ Mapping of Curriculum and syllabi with Program Specific Criteria.

    ➢ Classification of courses having focus on employability/ entrepreneurship/Skill Development.

    ➢ New Courses Under R2019

    ➢ Approval of External Examiners.

- Any Other

The following members were present.

S.No.	NAME OF THE MEMBERS	DESIGNATION	POSITION
1.	Dr.S.SivaRanjani	Professor & HEAD Department of IT	Chairman
2.	Dr.P.Latha *University Nominee*	Professor and Head, Department of CSE, Government College of Engineering, Tirunelveli.	External Member
3.	Dr. S.Mary Saira Banu *External Academic Expert*	Professor, Department of CSE, National Institute of Technology, Thiruchirappalli-6200158	External Member
4.	Dr.P.Karthikeyan *External Academic Expert*	Associate Professor, Department of IT, Thiagarajar College of Engineering, Madurai.	External Member
5.	Mr.G.Rameshkumar *External Industry Expert*	Lead Developer, ZakApps Software Pvt Ltd, Chennai.	External Member
6.	Mr.B.Arjunbala *Alumni*	Chief Executive Officer, Anu Foods, Madurai.	External Member
7.	Dr.S.Sridevi	Professor / IT	Member
8.	Dr.S.Jenicka	Associate Professor / IT	Member
9.	Dr.R.Aghila	Associate Professor / IT	Member
10.	Mrs.S.Rathnamala	Assistant Professor(SG) / IT	CPEC Overall Coordinator
11.	Mrs.C.Parameswari	Assistant Professor(SG) / IT	Member
12.	Mrs.D.RojaRamani	Assistant Professor(SG) / IT	Member

13.	Mrs.M.M.Yamuna Devi	Assistant Professor (SG) / IT	Member
14.	Mr.G.Sivakumar	Assistant Professor(SG) / IT	Member
15.	Mrs.G.Rajalakshmi	Assistant Professor / IT	Member
16.	Mr.S.V.K.Muthukumar	Assistant Professor / IT	Member
17.	Mr.S.ArunInigo	Assistant Professor / IT	Member
18.	Mr.D.Nagendra Kumar	Assistant Professor / IT	Member
19.	Mrs.P.PabithaMuthu	Assistant Professor / IT	Member
20.	Mrs.K.Krishnaveni	Assistant Professor / IT	Member
21.	Mr.P.Manoj Kumar	Assistant Professor / IT	Member
22.	Ms.P.Swapna	Assistant Professor / IT	Member
23.	Mrs.G.Susan Shiny	Assistant Professor / IT	Member
24.	Mrs.R.T.Subhalakshmi	Assistant Professor / IT	Member

1. Department Vision, Mission, PEOs, POs and PSOs of the department

The Institute Vision, Mission and department Vision, Mission statements were presented. The consistencies between both statements were elaborated to the members. PEOs, POs and PSOs were presented. The same is attached in Annexure: I. It is resolved to approve the same with no modifications.

2. Analysis of the Stakeholders feedbacks regarding curriculum and syllabi.

The Stakeholders' feedback and action taken report for the curriculum and syllabi of R2019 were presented by Ms.P.PabithaMuthu, Assistant professor/IT, BoS Member. The same is attached in Annexure: II. It is resolved to approve the same with no modifications.

3. Discussions made in PAC meetings.

Discussions, observations and action taken which are made in various PAC meetings were presented by Mrs.G.Susan Shiny, Assistant professor/IT, BoS Member. The same is attached in Annexure: III.

- The External Academic Expert (Dr.S.Mary Saira Banu) suggested to change the course name titled Biology as Biology for Engineering Applications.
- The University Nominee (Dr.P.Latha) enquired about the total credits and suggested to have the total credits as a whole number.
- The External Academic Expert (Dr.S.Mary Saira Banu) enquired about the industry offered courses and suggested to mention that courses as industry courses in the curriculum book.
- The External Academic Expert (Dr.P.Karthikeyan) enquired about the Course Attainment Analysis and Integrated Courses. It is resolved to approve the same with no modifications.
- The External Industry Expert (Mr.G.Rameshkumar) suggested to increase the number of hours for lab courses.
- It is discussed about to offer the course titled 'Elements of Machine Learning for Engineers'. The External Academic Expert (Dr.S.Mary Saira Banu) told that it is very emerging technology and she suggested to offer the course. It is offered in Professional Electives.

After a detailed discussion it is resolved to address the changes in the draft curriculum of R2019 based on above suggestions.

4. Presentation of the Program Articulation Matrix, PO, PSO attainment and Gap Analysis.

The Program Articulation Matrix of R2015, POs and PSOs attainment of the batch 2015-2019 were presented by Ms.S.Rathnamala, Assistant professor/IT, BoS Member. The same is attached in Annexure: IV. The Gap Analysis based on articulation matrix and attainment analyses were discussed and the course identified to fulfill the gap is presented and the same was approved by the BOS members.

5. Mapping of Curriculum and syllabi with Program Specific Criteria.

The revised program specific criteria based on ABET guidelines were presented by Ms.K.Krishnaveni, Assistant professor/IT, BoS Member. The same is attached in Annexure: V. Mapping of the draft Curriculum with the revised Program Specific Criteria was reviewed by the members and the same has been approved.

6. Classification of courses having focus on employability / entrepreneurship / Skill Development.

The courses having focused on employability / entrepreneurship / Skill Development under Regulations 2019 were presented and the same was approved by the members of the Board of Studies.

7. New Courses Under R2019

The following new courses which are introduced in R2019 were presented by the ChairPerson. The draft curriculum is attached in Annexure: VI.

    i.   Introduction to Information Technology

    ii.   Programming Fundamentals using Python(Theory and Lab)

    iii.   Biology

    iv.   Seminar

    v.   Gender Equality

    vi.   Object Oriented Programming using Python (Theory and Lab)

    vii.   Cyber Security

    viii.   Mining and Analysis of Big Data (Theory and Lab)

    ix.   Microprocessor Based System Design (Theory and Lab)

    x.   Artificial Intelligence (Theory and Lab)

    xi.   Interpersonal Skills Lab

    xii.   Product Development Project

    xiii.   Creative Thinking and Innovation

    xiv.   Indian Constitution and Essence of Indian Traditional Knowledge

xv. Internet of Things(Theory and Lab)

xvi. Machine Learning

The revised curriculum is attached in Annexure: VII.

8. Approval of External Examiners

The list of External Examiners for practical examinations, theory examinations, question paper setting and Scrutiny members were presented to the members of the Board of Studies for approval. The same was approved by the BoS members

The Chairperson thanked the members of the BOS for their contributions and suggestions to enhance the quality progress of the department.

Attachments:

Annexure: I	Institute & Department VISION, MISSION, PEOs, POs AND PSOs
Annexure: II	Stake Holders Feed Back and Suggestions
Annexure: III	Details and Observations of PAC Meetings
Annexure: IV	Program Articulation Matrix, POs, PSOs Attainment and Gap Analysis
Annexure: V	Classification & Mapping of Curriculum with Program Specific Criteria
Annexure: VI	Draft Curriculum which was submitted to the BoS
Annexure: VII	Revised Curriculum after BoS

S. Sen Rp

Chairperson

Board of Studies /Information Technology

Chairperson
Board of Studies
Information Technology
Sethu Institute of Technology
Kariapatti - 626 115

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DEPARTMENT OF INFORMATION TECHNOLOGY

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Annexure: I

INSTITUTE &DEPARTMENT VISION, MISSION, PEOs, POs AND PSOs

INSTITUTE VISION

- To Promote Excellence in Technical Education and Scientific Research for the Benefit of the Society

DEPARTMENT VISION

- To Promote Excellence in Producing Competent IT Professionals to Serve the Society Through Technology and Research

INSTITUTE MISSION

- To Provide Quality Technical Education to Fulfill the Aspiration of the Student and to Meet the Needs of the Industry
- To Provide Holistic Learning Ambience
- To Impart Skills Leading to Employability and Entrepreneurship
- To Establish Effective Linkage with Industries
- To Promote Research and Development Activities
- To Offer Services for the Development of Society Through Education and Technology

DEPARTMENT MISSION

- Producing Competent Professionals in Information and Communication Technologies
- Educating the Students with the State of Art Computing Environment and Pedagogical Innovations
- Encouraging Entrepreneurship and Imparting Skills for Employability
- Establishing Collaboration with IT and Allied Industries
- Promoting Research in Information and Communication Technology to Improve the Quality of Human Life

- Offering Beneficial Service to the Society by Inculcating Knowledge and Providing IT Solutions

PROGRAMME EDUCATIONAL OBJECTIVES

After few years of graduation, the Information Technology graduates will

- **PEO 1:** Exhibit Proficiency in Analyzing, Designing and Developing IT Based Solutions to Cater to the Business and Societal Needs. **{Technical Competence}**

- **PEO 2**: Provide Professional Expertise to the Industry and Society with Effective Communication and Ethics. **{Professionalism}**

- **PEO 3**: Engage in Lifelong Learning for Professional Development and Research. **{Life-Long Learning}**

PROGRAM OUTCOMES (POs)

- PO1: Apply the knowledge of Mathematics, Basic Science, Computer and communication Fundamentals to solve complex problems in Information Technology. [Engineering Knowledge]

- PO2: Identify, formulate, review research literature and analyze complex problems reaching concrete conclusions using principles of mathematics, Engineering sciences and Information Technology. [Problem Analysis]

- PO3: Design solution for complex information and communication engineering problems and design system components or processes that meet with realistic constraints for public health and safety, cultural, societal and environment considerations. [Design/Development of Solutions]

- PO4 :Conduct investigations of complex Information technology related problems using research based knowledge and research methods including design of experiments, analysis and interpretation of data to provide valid conclusions through synthesis of information. [Conduct investigations of complex problems]

- PO5: Create, select and apply appropriate techniques, resources and modern IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations. [Modern Tool Usage]

- PO6: Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and consequent responsibilities relevant to professional engineering practice. [The Engineer and Society]

- PO7: Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate the knowledge of and need for sustainable development. [Environment and sustainability]

- PO8: Apply ethical principles and commit to professional ethics and responsibilities through the norms of professional engineering practice. [Ethics]

- PO9: Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary settings. [Individual and Team Work]

- PO10: Communicate effectively with the engineering community and the 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. [Communication]

- PO11: Demonstrate knowledge and understanding of engineering and management principles and apply these to one's own work, as a member /or leader in a team, to manage projects in multi-disciplinary environment. [Project Management and Finance]

- PO12: Recognize the need for, and have the preparation and ability to engage in independent and Life-long learning in broadest context of technological change. [Life-long Learning]

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSOs are the statements that describe what the graduates of B.Tech Information Technology Program should be able to do

- PSO 1: Design Software Solutions Using Programming Skills and Computing Technologies

- PSO 2: Design and Implement Data Communication System Using Various IT Components

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Annexure: II

Stake Holders Feedback and Suggestions

S.No	Stake Holder	Name of the Subject	Suggestions	Action Taken
1.	Employer	Advanced Machine Learning	Suggested to include the new algorithms , Python Concepts and Data structures	Suggestions were accepted and it may be included in the R-2019
2.	Employer	Cyber Security	Suggested to include recent trends in the security mechanisms	Suggestions were accepted and this course is already added in the higher semester of R-2019
3.	Industry Expert	Augmented Reality and Virtual Reality applications	Suggested to include in the curriculum because it is an emerging technology	Suggestions were accepted and it is planned to include as a one credit course in R_2019
4.	Industry Expert	Cloud Architecture, and Forensics Technology	Suggested to include these new course in the syllabus and Suggested to include the topics like Time Management, Data analogism, e-Commerce and Digital Marketing in the subject	Suggestions were accepted and it may be included in the R-2019
5.	Alumni	IOT lab	Suggested to do more practical sessions and also suggested to do projects in recent technologies	Suggestions were accepted and it is planned to add in R-2019

6.	Alumni	Ruby- App Development	Suggested to include the concepts of this application development	Suggestions were accepted and it may be included in the value added courses of R-2019
7.	Faculty	Big data and Business Intelligence	Suggested to include this subject because of its advanced features	Suggestions were accepted and the revision of complete syllabus will be made in the upcoming semesters
8.	Student	Digital Marketing	Suggested to include the subject in the syllabus	Suggestions were accepted and it may be included in the value added courses of R-2019
9.	Parent	Dev Ops Methodologies	Suggested to add the concept in addition to the Agile Software Methodologies	Suggestions were accepted and this concept is already included in the course

S. S— Pr—

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ANNEXURE-III
DETAILS AND OBSERVATIONS OF PAC MEETINGS

DETAILS OF PAC MEETINGS

S.No	Date	Agenda
1.	11.11.19	Discussion among the faculty members regarding the following Agenda: i. Review of the Stakeholders Feedback ii. Technological Forecast
2.	17.03.20	HoD elaborated the points on how to write CO's and Measure CO's using Teaching Learning Process: i. Common mistakes we will commit while writing CO's and how to avoid it ii. How to write CO's iii. How to Map CO-PO iv. Direct Assessment Tools v. Indirect Assessment Tools vi. CO Attainment
3.	15.05.20	Course presentation by individual faculty members through online mode is conducted between 15.05.2020 to 20.05.2020: 1. Presenting the course by the Faculty members in an elaborated manner with Syllabus, Teaching Learning Process

		and Assessment Methodology
		The following course were presented on 15.05.2020 : 1. Operating System 2. Computer Organization and Architecture
4.	16.05.20	The following course were presented on 16.05.2020 : 1. Software Engineering Methodology 2. Database Management Systems 3. Computer Networks 4. Object Oriented Programming in C++
5.	17.05.20	The following course were presented on 17.05.2020 : 1. Data Structure and Algorithm Analysis 2. Design and Analysis of Algorithms 3. Artificial Intelligence 4. Java Programming
6.	18.05.20	The following course were presented on 18.05.2020 : 1. Microprocessor based System Design 2. Internet of Things 3. Object Oriented Programming using Python 4. Mining and Analysis of Big Data
7.	19.05.20	The following course were presented on 19.05.2020 : 1. Building Enterprises application 2. Data Structures and Algorithm for Other Deparments 3. Cyber Security 4. Elective
8.	20.05.20	The following course were presented on 20.05.2020 : 1. C Programming 2. Digital Principles and System Design

OBSEVATIONS:

- Mapping of CO-PO is based on the percentage towards the assessment questions
- In regular periodical test, questions can be asked upto Apply level
- Higher order questions should be assessed through alternate assessment methods, assignments or project based learning
- Students are also more interested in learning the courses through project based learning methods
- Regular laboratory experiments can be changed as the scenario based experiments
- According to AICTE examination reforms policies we have made discussion to map CO-PO based on Performance indicators
- It is decided to include Neural network concept in Artificial intelligence subject
- The topics of software engineering and agile software development were covered under a single umbrella. It is decided to separate these into two subjects

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ANNEXURE: IV

PROGRAM ARTICULATION MATRIX,POs,PSOs ATTAINMENT AND GAP ANALYSIS

ATTAINMENT ANALYSIS OF COs

Particulars	2015-2019	2016-2020	2017-2021	2018-2022
Total No. of Courses	68	64	47	29
Total No. of Theory Courses	46	45	33	21
Total No. of Laboratory Courses	19	19	14	08
No. of Project Work	2	1	0	0
Total No. of Course Outcomes	338	320	235	145
No. of Courses fully met	55	50	34	21
No. of Courses partially met	13	15	13	08
No. of COs MET in Level III	111	115	90	62
No. of COs MET in Level II	85	86	58	41
No. of COs MET in Level I	122	101	49	30
No. of COs NOT MET	20	18	38	12

DIRECT ATTAINMENT ANALYSIS OF POs& PSOs

Program Outcome	2014-2018 %	2015-2019 %	2016-2020 %
PO1	73	74	76
PO2	74	74	75
PO3	74	73	70

Program Outcome	2014-2018 %	2015-2019 %	2016-2020 %
PO4	74	74	72
PO5	74	74	78
PO6	75	75	73
PO7	75	75	72
PO8	78	72	75
PO9	77	74	74
PO10	75	72	74
PO11	77	71	75
PO12	74	75	76
PSO1	74	75	78
PSO2	71	72	73

PERCENTAGE OF STRONG CORRELATION FOR CURRICULUM 2015

Program Outcome	Curriculum 2015
PO1	16
PO2	12
PO3	11.4
PO4	5.2
PO5	8.4
PO6	4.9
PO7	4.3
PO8	4.3
PO9	6.3
PO10	4.3
PO11	3
PO12	6.3
PSPO1	9.5
PSPO2	4.1
Total	**100**
Average(100/14)	**7.14%**

GAP ANALYSIS AND COURSES IDENTIFIED TO FULFILL THE GAP

Program Outcome	Subjects Introduced to enhance the Mapping
PO4 [Conduct investigations of complex problems]	• Cyber Security • Creative Thinking and Innovation • Robotics • Robotics Laboratory • Summer Internship
PO7 [Environment and sustainability]	• Biology • Indian Constitution and Essence of Indian • Traditional Knowledge
PO8 [Ethics]	• Gender Equality
PO10 [Communication]	• Induction Program • Seminar • Interpersonal Skills Lab
PO11 [Project Management and Finance]	• Software Project Management and Finance • Summer Internship
PSO2 [Networking]	• Microprocessor Based System Design • Robotics • Robotics Laboratory

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Sethu Institute of Technology

Department of Information Technology

Program Articulation Matrix for Curriculum 2015

Course Code	Course Name	Program Outcome Attainment												PSOs	
		1	2	3	4	5	6	7	8	9	10	11	12	1	2
15UEN101	Technical English									2	3				
15UMA102	Engineering Mathematics- I	3	3	2	2		2	2	2	2	3		2		
15UPH103	Engineering Physics	3	3		2	1				3					
15UCY105	Applied Chemistry	3	2			1									
15UCS107	Computer Programming	3	2	2		2								3	
15UME108	Engineering Graphics	3	2	3		1					3			2	
15UCS109	Computer Programming Laboratory	3										2	1	3	
15UCS111	Engineering Fundamental Laboratory	3					3	3					3		
15UGS112	Basic Sciences Laboratory I	3				3		3	2						
15UEN201	Business English and Presentation Skills									2	3				
15UMA202	Engineering Mathematics–II	3	3	2	2		2	2	2	3	3		2		
15UPH205	Semiconductor Physics and OPTO Electronics	3	3		2	1				3					

Course Code	Course Name	Program Outcome Attainment												PSOs	
		1	2	3	4	5	6	7	8	9	10	11	12	1	2
15UCY207	Environmental Science	3						3	2						
15UCS208	Digital Principles and System Design	3	3	3	2							1			2
15UIT209	Problem Solving and Programming Techniques	3	3	3						2				2	
15UGS210	Basic Sciences Laboratory II	3					2	3				3			2
15UIT211	Programming Techniques Laboratory	3	3	3		3								2	
15UMA322	Probability, Statistics and Queueing Systems	3	3	2	2	1	2	1	2	2	1	1	1		
15UIT302	Data structures and Algorithms	3	3	3		2					2		2	3	3
15UCS303	Computer Organization and Architecture	3	3	3	3								3		3
15UIT304	Object Oriented Programming	3	3	3	3							3		3	
15UIT305	Operating systems	3	3	3		2	2		2	2					3
15UIT306	Analog and Digital Communication	3	3	3		2	3			2	3				3
15UGS331	Value Education and Human Rights								3						
15UIT307	Object Oriented Programming Laboratory	3	3	3					3			3	3	3	
15UIT308	Data Structures and Algorithms Laboratory	3	2	3	2								2	3	

Course Code	Course Name	Program Outcome Attainment												PSOs	
		1	2	3	4	5	6	7	8	9	10	11	12	1	2
15UIT309	Operating Systems Laboratory	3	2	3	2								2	3	
15UMA421	Discrete Mathematics	3	3	2	2	1	2	1	2	2	1	1	2		
15UCS402	Java Programming	3	3	3	2	3	3	3	2	3	3		2	3	2
15UIT403	Introduction to Human Computer Interaction	3		3	3	3		2	2	2	2			3	3
15UIT404	Software Engineering Methodologies	3		3		3			3	3		3	3	3	
15UIT405	Database Management Systems	3	3	3	3		2	2						3	
15UIT406	Computer Networks	3	3		3	3	3	3	3	3			3		3
15UGS431	Reasoning and Quantitative Aptitude	3										2	2		
15UCS407	Java Programming Laboratory	3	3	3	2	3	3	3	2	3	3		2	3	2
15UIT408	Database Management Systems Laboratory	3	3	2	2		2	2		2	2			3	
15UIT409	Computer Networks Laboratory	3	3	3	3	3	2	2				2	3	3	3
15UCS501	Internet and web Technology			3	2	3	1		1	2	1	2	2	3	
15UIT502	Data Warehousing and Data Mining	3	3	3	3		2							3	
15UIT503	Graphics and Multimedia	3	3	3	3				3	2	2			3	

Course Code	Course Name	Program Outcome Attainment												PSOs	
		1	2	3	4	5	6	7	8	9	10	11	12	1	2
15UIT504	Analysis and Design of Algorithm	3	3		3				2	2			2	3	
15UCS507	Internet and Web Technology Laboratory		3	3		3				3			3	3	
15UIT508	Data Warehousing and Data Mining Laboratory	3	2	2					3	3					
15UIT509	Graphics and Multimedia Laboratory	3				3				3			3	3	
15UGS531	Soft Skills and Communication Laboratory									3	3				
15UIT601	Cryptography and Network Security		3	3		3	3	3	3			2	3	2	3
15UIT602	Mobile Applications Development	3	3	3		3	3		3	3		2		3	
15UIT603	Compiler Design	3	3	3		2			2	2			3	2	
15UIT607	Security Laboratory	3	3	2	1	3	3	2	3				2	3	
15UIT608	Mobile Application Development Laboratory	3	3	3		3		2	2	2	2	3	2	3	
15UIT609	Technical Project	3	3	3	3	3	3			3	3	3		3	3
15UME701	Project Management and Finance		3	3	2	2	3		2	3		3	2		3
15UCS702	Insight into Cloud Computing	3	3	3	3	3	3			2		2	3		3
15UIT703	Fundamentals of Image Processing	3	3	3		3		2	2				3	3	

Course Code	Course Name	Program Outcome Attainment												PSOs	
		1	2	3	4	5	6	7	8	9	10	11	12	1	2
15UME801	Professional Ethics						3	3	3	3			3		2
15UIT706	Cloud Computing Laboratory	3	3	3	3	3	3					3	3	3	2
15UIT707	Image Processing Laboratory	3	3	3		3	2						2	3	
15UIT924	Agile Software Development	3	3	3	3	3	2	3	3	3	3	3	3	3	2
15UCS902	Information Storage Management	3		3	2	3		2					2		3
15UIT901	Programming Paradigms	3	3	3	2	3		2					3	3	
15UIT910	Building Enterprise Applications	3	3	3	3	3	3	3	3	3	3				
15UIT931	Object Oriented System Design	3	3	3	3	3	2	1		3	3	2	3	3	
15UIT930	Programming with Python	3	3	3	3	3	2	2		3	3	2	2	3	
15UIT924	Agile Software Development	3	3	3	3	3	2	3	3	3	3	3	3	3	2
15UCS902	Information Storage Management	3		3	2	3		2					2		3
15UGM951	Smart Manufacturing	3	3	3	3	3	3	3		3			3	3	
15UGM952	Automation in Agriculture	3		3		3	2	3	3	3		2	3	3	3
15UIT905	Internet of Things	3	3		3	3	3	3	3			3	3		3

Course Code	Course Name	Program Outcome Attainment												PSOs	
		1	2	3	4	5	6	7	8	9	10	11	12	1	2
15UIT911	Software Testing	3		3	2	3	3	3	3	3	3	3	3	3	
15UIT804	Project Work	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Strong Correlation count		59	44	42	19	31	18	16	16	23	16	11	23	35	15
Medium Correlation count		0	6	8	17	6	15	12	15	16	5	10	17	5	7
Week Correlation count		0	1	0	1	6	1	3	1	0	3	3	2	0	0

Chairperson
Board of Studies
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Sethu Institute of Technology
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