

**THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI**

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**B.Tech. Information Technology**

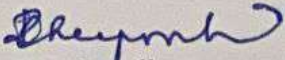
**REPORT ON COURSE FEEDBACK BY FACULTY**

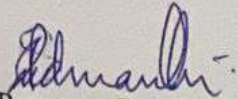
ACADEMIC YEAR: 2022-23, Odd Semester

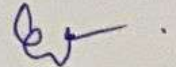
General Observations	<ul style="list-style-type: none"> <li>• All the courses are found to be important and relevant to the current trend of industry needs and societal needs</li> <li>• Proficiency level of the students found to be good</li> <li>• Availability of text books and other content is satisfactory</li> <li>• Different active learning strategies are found to be adopted by all the course handling faculties</li> <li>• Various teaching tools like Padlet , Kahoot , quizziz, Replit, Nearpod, Mentimeter used by all the faculties as teaching tool</li> <li>• Use of HackerRank, leetcode, GeeksforGeeks platforms, Survey on research paper, IITB Spoken tutorial certification, Mini projects for Assignments</li> </ul>
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Course code	Course Name	Challenging topics	Course contents that can be added/modified	Course contents that can be removed
<b>Semester: III</b>				
21IT320	Object Oriented Programming	Collections	Files concepts may be included after oops concepts	-
21IT330	Software Engineering	Design diagrams	-	-
21IT340	Data Structures	Advanced heaps, Linked list, AVL tree	Graphs	-
21IT361	IT Operations and Management	-	Linux troubleshooting, EVOLVING arenas LIKE Devops, pipelining CI and CD	Backup and recovery, storage techniques,
21IT370	Object Oriented Programming Lab	-	Java with Database Connectivity	-
21IT380	Data Structures Lab	-	-	-
21ES390	Design Thinking	-	-	-
<b>Semester: V</b>				
18IT511	Web Technology		React Js can be added	Security
18IT520	Information Security	-	-	-
18IT530	Data Mining	Logistic regression	-	-
18IT571	Web Technology Lab	-	-	-
18ITPR0	C# and .NET framework	-	-	-
18ITPQ0	Software Testing	-	API Testing, Mobile Testing, A specific module on Selenium may be added	NASA defect datasets
18ES590	System Thinking	Architecture Diagram	-	-
18CHAC0	Essence of Indian Knowledge	-	-	-
<b>Semester: VII</b>				
18IT770	Multimedia laboratory	-		
18ITPE0	FOG COMPUTING	5G Use cases, Slicing and	-	

		Orchestration frameworks		
18ITPK0	Social Network Analysis	-	-	
18ITPG0	Service Oriented Computing	Kubernetes		-

  
TLP Coordinator

  
Program Coordinator

  
HOD

**THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI**

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**B.Tech. Information Technology**

**REPORT ON COURSE FEEDBACK BY FACULTY**

ACADEMIC YEAR: 2022-23, Even Semester

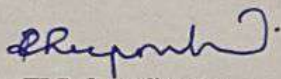
General Observations	<ul style="list-style-type: none"> <li>• All the courses are found to be important and relevant to the current trend of industry needs and societal needs</li> <li>• Proficiency level of the students found to be good</li> <li>• Availability of text books and other content is good</li> <li>• Different active learning strategies are found to be adopted by all the course handling faculties</li> <li>• Various teaching tools like Padlet , Kahoot , quizziz, Mentimeter used by all the faculties as teaching tool</li> </ul>
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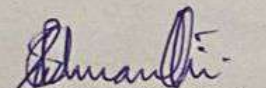
Course code	Course Name	Challenging topics	Course contents that can be added/modified	Course contents that can be removed
<b>Semester: II</b>				
22IT220	Operating System	-	-	-
22IT230	Computer Organization		Linux topic shall be included	-
22IT240	IT Infrastructure Management	-	-	-
22IT260	Web Essentials	Server side scripting	-	-
22IT270	Computer Programming	Pointers	-	-
<b>Semester: IV</b>				
21IT420	Algorithm Design Principles	NP Hard and complete problems	Sorting techniques in Brute Force approach	-
21IT430	Computer Networks	-	-	-
21IT440	Database Management Systems	Transaction control	-	-
21IT480	Database Management System Lab	Complex query	-	-
21IT490	Project Management	Risk Management	-	-
21CHABO	Constitution of India	-	-	-
<b>Semester: VI</b>				
18IT610	Cloud Computing	AWS Deployment	-	-
18IT630	Programming for Internet of things	hardware and software integration	-	-
18IT660	Mobile Application Development	-	React native can be added	-


18IT670	Cloud Computing Lab	Cloud service such as AWS, GOOGLE Cloud access	-	-
18ES690	Engineering Design Project	-	-	-
18ITPA0	Machine Learning	Reinforcement Learning	-	-
18ITPD0	Distributed Application Development	Docker Orchestration deployment	-	-
18ITPF0	Software Defined Networks	-	-	-
18ITPF0	Software Defined Networks	Information Security Laws and Standards	ORM Methods	
18ITPP0	Blockchain Technologies	Hyperledger	-	-
18ITPJ0	Wireless and Mobile Communication	-	-	-
18ITEA0	Data Analytics	interactive learning		

Any other major changes proposed:

- The infrastructure in the lab needs to be improved. It is a matter of huge concern. At least a few AWS/Azure/IBM/Google cloud user licenses need to be procured to facilitate cloud computing theory and lab course
- OS Course content should be reduced in efficient manner based on amount of time to complete it.
- More time will be allocated for complex queries
- Blockchain Technologies-Elective course can be converted as Theory Cum Practical course

  
TLP Coordinator

  
Program Coordinator

  
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**DEPARTMENT OF INFORMATION TECHNOLOGY**

**B.Tech. Information Technology**

**REPORT ON COURSE FEEDBACK BY FACULTY**

ACADEMIC YEAR: 2021-22, Odd Semester

General Observations	<ul style="list-style-type: none"> <li>• All the courses are found to be important and relevant to the current trend of industry needs and societal needs</li> <li>• Proficiency level of the students found to be good</li> <li>• Availability and use of software and hardware for the conduct of Laboratory seems to be good</li> <li>• Availability of text books and other content is satisfactory</li> <li>• Different active learning strategies are found to be adopted by all the course handling faculties</li> <li>• Various teaching tools like Padlet , Kahoot , quizziz, Mentimeter used by all the faculties as teaching tool</li> </ul>
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Course code	Course Name	Challenging topics	Course contents that can be added/modified	Course contents that can be removed
<b>Semester: III</b>				
18IT320	Object Oriented Programming	-	-	-
18IT330	Software Engineering	-	Full stack and mean stack	-
18IT340	Data Structures	Linked List	-	-
18IT361	IT Operations and Management	Windows server based Topics	Devops, MLOps, Automation in Storage and Backup domains, CI/CD Pipeline	Traditional Storage Approaches
18IT370	Object Oriented Programming Lab	-	-	-
18IT380	Data Structures Lab	-	-	-
18ES390	Design Thinking	-	-	-
<b>Semester: V</b>				
18IT511	Web Technology	-	-	-
18IT520	Information Security	-	-	-
18IT530	Data Mining	Problems related to Classification and Clustering need more time	Data warehouse	-
18IT540	Accounting and Finance	Economics	Significance of economics	-
18IT570	Web Technology Lab	Due to online lab, few students are struggled with system/software support	-	-
18IT580	Information Security Lab	-	-	-
18ITGA0	Database Management System	Normalization	NOSQL	-
18ITGC0	Object Oriented Programming with Java	-	-	-
18ES590	System Thinking	-	-	-

18CHAC0	Essence of Indian Knowledge	-	-	-
<b>Semester: VII</b>				
18IT710	Human Computer Interaction	-	-	-
18IT770	Multimedia laboratory	3D animation		-
18ITPE0	FOG COMPUTING	5G Use cases		
18ITPK0	Social Network Analysis	-	-	-
18ITPQ0	Software Testing			Traditional SDLC Models
18ITPR0	C# and .NET Framework		ORM Methods	
18ITPU0	Big Data Tools and Technologies	SPARK	-	-
18ITRA0	Information Security Auditing and Management	-	-	-

Any other major changes proposed:

- The terminal assessment can be carried out in practical mode for the course: IT Operations and Management since 70% of the course contents deal with server configurations, installations and scripting
- Elective courses like C# and .Net framework and Software Testing can be offered as Theory Cum Practical course

  
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**DEPARTMENT OF INFORMATION TECHNOLOGY**

**B.Tech. Information Technology**

**REPORT ON COURSE FEEDBACK BY FACULTY**

ACADEMIC YEAR: 2021-22, Even Semester

General Observations	<ul style="list-style-type: none"> <li>• All the courses are found to be important and relevant to the current trend of industry needs and societal needs</li> <li>• Proficiency level of the students found to be good</li> <li>• Availability of text books and other content is good</li> <li>• Different active learning strategies are found to be adopted by all the course handling faculties</li> <li>• Various teaching tools like Padlet , Kahoot , quizziz, Mentimeter used by all the faculties as teaching tool</li> </ul>
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Course code	Course Name	Challenging topics	Course contents that can be added/modified	Course contents that can be removed
<b>Semester: III</b>				
18IT220	Problem solving using computer	-	-	-
21IT230	Operating systems		Linux topic shall be included	-
18IT240	Computer Organization and Design	-	-	Course content is heavy and need updations
18ES290	Lateral Thinking	-	-	-
18IT260	Essentials of IT	Business problems based application	-	-
18IT280	Workshop	-	-	-
<b>Semester: IV</b>				
18IT420	Algorithm Design Principles	NP Hard and complete problems	-	-
18IT430	Computer Networks	License for Opnet Riverbed has to be procured	Experiments on Networking Commands and Experiments using GNS3	-
18IT440	Database Management Systems	Transaction processing	-	Relational Calculus, spatial and temporal databases
18IT470	Computer Networks Lab	-	Experiments on Networking Commands and Experiments using GNS3	OPNET based Experiments
18IT480	Database Management System Lab	-	-	-
18IT490	Project Management	-	-	-
18CHABO	Constitution of India	Risk Management	-	-
		-	-	-

Semester: VI				
18IT610	Cloud Computing	Implementation of Cloud service models, Openstack, Hadoop	Cloud-native framework, Cloud Resource allocation, Simulation with Cloudsim, Service model can be added	
18IT630	Internet of things	-	-	Openvswitch,
18IT660	Mobile Application Development	-	-	-
18IT670	Cloud Computing Lab	-	-	-
18ES690	Engineering Design Project	-	-	-
18ITGD0	Software Engineering(General Elective)	-	-	-
18ITPD0	Distributed Application Development	-	-	-
18ITPF0	Software Defined Networks	-	-	Traditional SDLC Models
18ITPM0	ETHICAL HACKING	Information Security Laws and Standards	ORM Methods	
18ITPP0	Blockchain Technologies	-	-	-
18ITPJ0	Wireless and Mobile Communication	-	-	-

Any other major changes proposed:

- The infrastructure in the lab needs to be improved. It is a matter of huge concern. At least a few AWS/Azure/IBM/Google cloud user licenses need to be procured to facilitate cloud computing theory and lab course
- The content of computer organization and design course needs major revision

  
TLP Coordinator

  
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Thiagarajar College of Engineering, Madurai-15

Department of Information Technology

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Ref: IT\Feedback\Faculty\20-21

Report on Faculty Feedback

Academic Year 2020-21 (Odd Semester)

Suggestion given:

Following Suggestions are given by the Course Instructors for the Academic Year 2020- 21

1. Separated Course on Graph Database can be offered as One credit course
2. Course content can include recent DevOps, MLOps, Modern tools for Delivery and Deployment, Storage and Backup automation in 18IT361-IT Operation and Management
3. Course outcome and content can be revisited for the course 18IT510-Web Technology
4. Timed automata and cellular automata can be included in the course 18ITPS0-Theory of Computation
5. Syllabus content can be updated with advanced topics such as Full stack and DevOps for the course 14ITGC0-Software Engineering
6. ORM framework can be included in the course:18ITPR0-C# & .net Framework
7. Agile testing concepts, Test automation tools, Test Management tools, Data flow based testing, CI/CD pipeline can be included in the course 18ITPQ0-Software Testing and traditional testing methods can be removed from the course content.

Action taken:

Following actions are taken based on the suggestions given by Course Instructors:

1. A new course on Scripting technology is introduced as Industry Supported course which covers RESTful APIs, Node JS, MVC Architecture framework
2. A new course on Data Analytics for IoT is introduced to give exposure on Industry specific Data Acquisition systems



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**THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI 625 015.**  
**Department of Information Technology**  
**Faculty Feedback report**

Course Code	Course Name	Faculty review on course contents	Action Taken
14IT230	Digital System Design	1.Shall include Hardware Description Language to the course content	Recommended to consider the same during course revision.
14IT240	Information Systems	Students are unable to visualize the system and subsystem for an enterprise before providing them a big picture of IT domain. Shall introduce a course on Essentials components of IT.	Proposed a course on "Essentials on IT" benchmarking with Anna University.
14IT270	Free Open Source Software: Practice	1. HTML, JAVASCRIPT can be included. 2. Linux Shell Scripts can be given as separate course.	Proposed to include the course content during course revision
14IT340	Data Structures and Algorithms	1. Programming and Arrays, strings can be included in the 1 <sup>st</sup> module. 2.Algorithms can be taken as separate course-,as Time constraint to deliver Algorithms and Time complexity	Proposed to introduce a new course focusing Algorithm Design Data Structures course content shall be revised
14IT420	Java Programming	1.Shall remove JSP from the course content 2.Need to give this course in 3 <sup>rd</sup> semester to make the students participate in "Hackathon Contests"	Proposed to introduce OOPS concepts with Java Programming to 3 <sup>rd</sup> semester
14IT520	Web Technologies	1. Front End and Backend frameworks can be included. JSON, JQuery can be included .Java based web development flavor can be provided.	Course shall be revised in the upcoming BOS, the same shall be

			discussed with the industry expert too.
14IT620	Cloud Computing	Include “Developing cloud application” due to industrial need. 1. Shall remove the following content virtualization concepts, Repeated Cloud characteristics, Google App Engine Topic on Libvirt can be added/modified to the course content,Eucalyptus- Course contents can be removed	
14IT630	Information Storage and Management	1. Many topics are covered as basics in Cloud computing.	Recommended to move the course to elective
14IT370	Software Engineering	1.Project Management topics shall be given as separate course in higher semester. 2.Software Testing and Management can be moved to a separate course 3.Agile Methodologies can be added	Recommended to propose a course onProject management Revise the Software Engineering course content during next BOS .
14IT570	System Administration	Setting up R managing with Cloud architecture can be added to the content.	Recommended to consider during curriculum revision
14IT770	Data Analytics	1.Shall remove topics on Big Data Concepts—few contents repeated from BIG DATA TECHNOLOGIES 2. Add Survival Analytics, Web Analytics,Social Media Analytics algorithms to the course content.	Recommended to consider during curriculum revision
14IT680	Multimedia Lab	1.Instead of exploring on various 2D/3D tools ,the course content	Recommended to

		2.Video creation using openshot /screencast can be included in the content	consider during curriculum revision
14IT690	Cloud Computing Lab	1.Shall include experiments on buzz topics 'Mobile Cloud, Docker container ' 2.Remove experiments on "Eucalyptus'	Recommended to consider during curriculum revision
14IT780	User Interface Design Lab	1. Due to placement activities ,students find it difficult to explore various design tools and apply the best to their concept. 2.Shall move the course to the earlier semester as User Experience is a buzz area in industry	Recommended to combine the Lab with Human Computer Interaction in the earlier semester.
14ITRB0	Parallel Computing(€)	1. Shall include more focusing on different problems to be deployed in different environment. 2.Shall remove course content on Combinational circuit and classification	Course content shall be revised during next BOS
14ITRF0	C# and .NET Framework	1.Shall remove MVC architecture and Design patterns.	Shall be revised during next BOS
14IT670	Mobile App Development	Contents on React native can be added/modified to the course	Shall be revised during next BOS

Recommended to the Course designers to consider the suggestions during curriculum Revamp/Course Revision



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Report on Facilitator Feedback  
Academic year 2019-2020 (Even Semester)

All the courses are considered important and very much relevant to Industry and Society. Proficiency level of the students in Prerequisites seems to be fair for the courses such as Constitution of India and Problem Solving using Computers.

Adequacy of time for effective coverage of syllabus/lab experiments seems to be minimum for the courses such as Constitution of India and Computer Organization and Design.

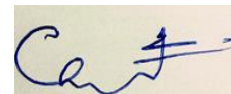
All the faculty members used different LMS such as CANVAS, Kahoot, Moodle and Google classroom. Active learning strategies like Flipped Classroom, Peer Coaching, Short films, Word Puzzle, Demos, Problem formulations based on the area of interest are also used by the faculty members.

Journal reviews, Mini projects, Seminars, Worksheets, Tool demonstration and Assignment Presentations, GATE Questions as Tutorials, Concept test, Online coding, review reports, Online Quiz and Peer Assessment for Group Seminar Presentation are followed by the Faculty members to measure Course Outcomes at higher levels.

Faculty members also mentioned some of the topics has to be added/removed for their respective subjects viz., 14IT620, 14IT670, 18IT430, 18ES290, 18CHAB0, 14ITPS0, 14IT680, 18IT240, 18PG250, 18IT230

Action Plan:

- All the suggestions/comments expressed by the faculty members would be taken up for discussions in the Board of Studies meeting and appropriate corrections will be carried out in the Course Content and assessment methodologies.
- A refresher course on Java programming (Networks) can be planned during the semester holidays



Report on Facilitator Feedback  
Academic year 2019-2020 (Odd Semester)

All the courses are considered as most important and very much relevant to Industry and Societal needs. Formulation of Course Outcomes, assessment pattern and mapping of Program Outcomes and Contribution of course content to design thinking and critical analyses are seems to be excellent for all the courses.

All the faculty members used different LMS such as CANVAS, Kahoot, Moodle and Google classroom. Faculty members are also used SafeApp of IIT-B for Capstone course. Active learning strategies like Flipped Classroom, Peer Coaching, Word Puzzle, Demos, Programming Assignments, Netmon Tool and Google Pass, Team activities in solving SQL Queries. Online python interpreter, gnomio (Moodle), Hacker-rank challenges are also used by the Faculty members as Active learning strategy to motivate the students for learning the concept.

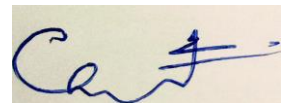
Field visits are reported in few courses such as IT Operations and Management, Management Theory and Practice. Conducted Industrial webinar to get real time exposure on Agile and Devops.

Faculty Members mentioned the challenging topics and also suggested to modify the content of their respective subjects viz., 18IT340, 18IT330, 14ITRC1, 14ITPG0, 14IT540, 18ITGC0, 18IT320, 18IT320, 14IT541.

Action Plan:

- All the suggestions/comments expressed by the faculty members would be taken up for discussions in the Board of Studies meeting and appropriate corrections will be carried out in the Course Content and assessment methodologies.

Program Coordinator



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THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI 625 015.  
Department of Information Technology  
FACULTY FEEDBACK ON CURRICULUM DESIGN-Report

COURSE CODE	COURSE NAME	FEEDBACK	ACTION TAKEN	Curriculum developed/ modified in the year
<b>Revision of courses</b>				
14IT541	Data Mining	To give clear insight to the course handlers regarding the depth of coverage in sub-topics	Course Revised	29/APR/2016
14IT591	Network Management And Security Lab	1. Few experiments are part of system administration course. 2. Configuring a network using Network Simulator is time consuming	Content revised	29/APR/2016
14ITPZ1	Internet Of Things	Syllabus content needs to be revised to focus more on programming for IOT, usage of cloud and security in IOT.	Content Revised.	29/APR/2016
14IT331	Computer Organization	Assessment pattern needs to be revised	Course Revised.	29/APR/2016
14IT431	Computer Networks	1. Difficulty in assessing the Course Outcomes – Course outcomes' Bloom's level was found to be higher  2. Course Outcomes mapping with Course contents was not even. So the existing COs are rephrased in such a way that each CO covers fair portion of the course contents.	Course Revised.	4/Nov/2017
14ITRC1	Software Defined Networks	The existing course outcomes were difficult to measure and the course contents specified in the syllabus had little clarity on the depth and width of content coverage. Bloom's level of the assessment pattern was also found to be	Course Revised.	4/Nov/2017

		higher for 5th semester students.		
14ITRN1	Design And Analysis of Algorithms			4/Nov/2017
14ITPR1	Computer Vision	Course Outcomes mapping with Course contents was not even. Difficulty in assessing the Course Outcomes	Course Revised	4/Nov/2017
14IT230	Digital System Design	1.Shall include Hardware Description Language to the course content	Recommended to consider the same during course revision.	2018
14IT240	Information Systems	Students are unable to visualize the system and subsystem for an enterprise before providing them a big picture of IT domain. Shall introduce a course on Essentials components of IT.	Proposed a course on "Essentials on IT" benchmarking with Anna University.	2018
14IT270	Free Open Source Software: Practice	1. HTML, JAVASCRIPT can be included. 2. Linux Shell Scripts can be given as separate course.	Proposed to include the course content during course revision	2018
14IT340	Data Structures and Algorithms	1. Programming and Arrays, strings can be included in the 1 <sup>st</sup> module. 2.Algorithms can be taken as separate course-,as Time constraint to deliver Algorithms and Time complexity	Proposed to introduce a new course focusing Algorithm Design Data Structures course content shall be revised	2018
14IT420	Java Programming	1.Shall remove JSP from the course content 2.Need to give this course in 3 <sup>rd</sup> semester to make the students participate in "Hackathon Contests"	Proposed to introduce OOPS concepts with Java Programming to 3 <sup>rd</sup> semester	2018
14IT520	Web Technologies	1. Front End and Backend frameworks can be included. JSON, JQuery can be included .Java based web development flavor can be provided.	Course shall be revised in the upcoming BOS, the same shall be	2018

			discussed with the industry expert too.	
14IT541	Data Mining	1.shall include Regression algorithm concepts to the course content.	Recommended to revise the course content in the next BOS meeting.	2018
14IT620	Cloud Computing	1. Include “Developing cloud application” due to industrial need. 2. Shall remove the following content virtualization concepts, Repeated Cloud characteristics, Google App Engine	Course content shall be revised	2018
14IT630	Information Storage and Management	1. Many topics are covered as basics in Cloud computing.	Recommended to move the course to elective	2018
14IT370	Software Engineering	1.Testing tools to be introduced in the content 2.Project Management topics shall be given as separate course in higher semester	Recommended to propose a course on Project management Revise the Software Engineering course content during next BOS .	2018
14IT570	System Administration	Setting up R managing with Cloud architecture can be added to the content.	Recommended to consider during curriculum revision	2018
14IT770	Data Analytics	1.Shall remove topics on Big Data Concepts—few contents repeated from BIG DATA TECHNOLOGIES 2. Add Survival Analytics, Web Analytics,Social Media Analytics algorithms to the course content.	Recommended to consider during curriculum revision	2018
14IT680	Multimedia Lab	1.Instead of exploring on various 2D/3D tools ,the course content	Recommended to	2018

		2.Video creation using openshot /screencast can be included in the content	consider during curriculum revision	
14IT690	Cloud Computing Lab	1.Shall include experiments on buzz topics 'Mobile Cloud, Docker container ' 2.Remove experiments on "Eucalyptus'	Recommended to consider during curriculum revision	2018
14IT780	User Interface Design Lab	1. Due to placement activities ,students find it difficult to explore various design tools and apply the best to their concept. 2.Shall move the course to the earlier semester as User Experience is a buzz area in industry	Recommended to combine the Lab with Human Computer Interaction in the earlier semester.	2018
14ITRB0	Parallel Computing(€)	1. Shall include more focusing on different problems to be deployed in different environment. 2.Shall remove course content on Combinational circuit and classification	Course content shall be revised during next BOS	2018
14ITRF0	C# and .NET Framework	1.Shall remove MVC architecture and Design patterns.	shall be revised during next BOS	2018

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