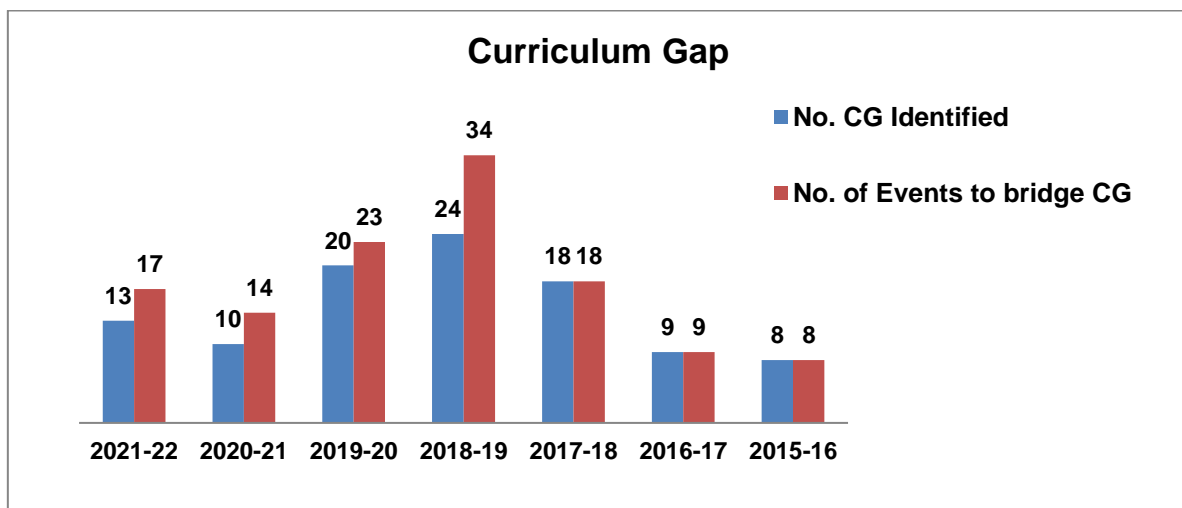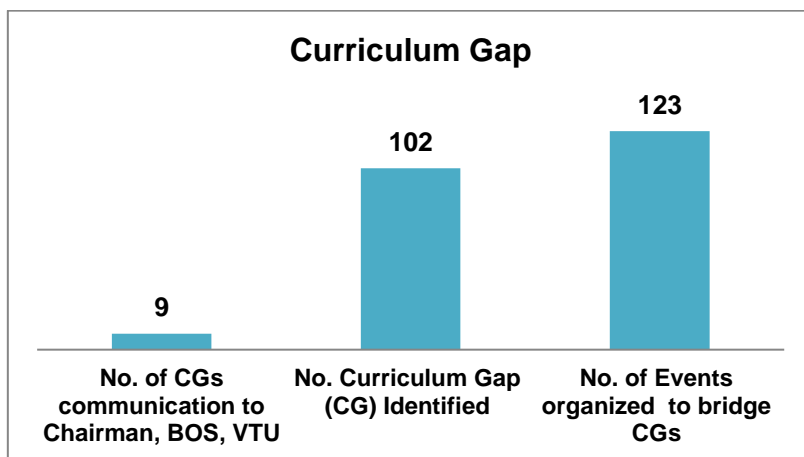# Curriculum Gap (CG)

Foreword: Frequency at which the Technology and Industry requirements change is unmatchable with the Academic education curriculum, but continuous efforts are made to bridge the curricular gap. Feedback /Suggestion are collected from Professionals/ Stake holders on IT industry requirement, so as to incorporate in University Curriculum. Lacuna or Gaps in the University curriculum mentioned by the stakeholders are considered and events/ add-on courses are conducted for the students by the faculty members in association with external resource persons to meet the gaps.

As a result students will get awareness of the latest technology, considers industry required topics and packages as their Internship, electives, and even participate in industry organized competitions and hackathons, further students adopt industry relevant problems as their main project theme, with these exercises student's profile tend to improve and turn out to be an eligible candidate for both research and recruitment.

Table: List of Curriculum Gaps identified in Courses due to Technological change

AY 2021-22

Sem	Course Title with Code	Curriculum Gap identified	Level of Curriculum Gap	Relevance with POs, PSOs
8th	Internet of Things [18CS81]	AI/ML algorithms for IOT applications- AIOT	Course level	PO3, PO4, PO5, PO6, PO7, PO8 PO11; PSO3
8th	Storage Area Networks [18CS822]	• Storage Monitoring and Management Tools • Storage benchmark Tool kits for network storage analysis	Course level	PO3, PO5, PO7, PO8, PO11; PSO3
6th	Cloud Computing and its Applications [18CS643]	Case study on serverless micro services and architecture	Course level	PO3, PO4, PO5, PO7, PO8 , PO11; PSO3
6th	Data Mining and Data Warehousing [187C641]	Outlier Mining	Course level	PO3, PO5, PO7, PO8, PO11; PSO3
4th	Microcontroller and Embedded Systems [18CS44]	Hands on Arduino and raspberry Pi for real world application development	Course level	PO3, PO5, PO6, PO7, PO8; PSO1, PSO3
4th	Object Oriented Concepts [18CS45]	NodeJS, ReactJS - Web server design technologies	Course level	PO3, PO5, PO7, PO8, PO11; PSO1, PSO3
4th	Data Communication [18CS46]	• Advancement in Satellites for communication • Attacks, trustless services- Security challenges of Internet	Course level	PO3, PO4, PO5, PO6, PO7, PO8, PO11; PSO3
7th	Artificial Intelligence and Machine Learning [18CS71]	versatility of AI - multidisciplinary approach case studies	Course level	PO3, PO4, PO5, PO6, PO7, PO8, PO11; PSO3
7th	Big Data Analytics [18CS72]	Case study of Analytical tools for large data analysis	Course level	PO3, PO5, PO7, PO8, PO11; PSO3
5th	Application Development using Python [18CS55]	Multifaceted features of Python in the field of Image Processing, AI/ML , Data mining	Course level	PO2, PO4, PO5, PO7, PO8; PSO1, PSO3
5th	Computer Networks and Security [18CS52]	harnessing Networking Infrastructures	Course level	PO3, PO5, PO6, PO7, PO8, PO11, PO12; PSO3
5th	Database Management System [18CS53]	Hands-on NoSQL databases packages for Social network	Course level	PO3, PO5, PO6, PO7, PO8, PO11; PSO1, PSO3
3rd	Software Engineering [18CS35]	SDLC models and tools - ASPICE case studies	Course level	PO2, PO5, PO6, PO7, PO8, PO11; PSO2, PSO3

Curriculum Gap coverage details

CAY (2021- 22)

Sl. No	Course with Code	CBS/ Curriculum Gap identified	Action taken to bridge the Gap	Date	Resource Person with designation	% of Students	Relevance to POs, PSOs
1.	Microcontroller and Embedded Systems [18CS44]	Hands on Arduino and raspberry Pi for real world application development	"Application development using Arduino IDE and Node MCU", Interdisciplinary Open source Project contest	20/08/2022	Mr. Chethan, Director, M/s Tekatron Pro Solutions, Bengaluru	4th sem ISE, 90%	PO2, PO3, PO5, PO8, PO11, PO12; PSO1, PSO3
2.	Data Communication [18CS46]	Advanced Satellite's contribution to communication and applications	Industry visit to ISRO, Bengaluru	17/08/2022	Mr. Srinivas, Scientist guided the tour of ISRO and satellite exhibition	4th sem ISE, 60%	PO6, PO7, PO8, PO11, PO12; PSO3
3.	Microcontroller and Embedded Systems [18CS44]	Hands on Arduino and raspberry Pi for real world application development	Bootcamp on, Interdisciplinary Innovative Project Event, Introduction to Arduino Programming Interfacing and Applications, hands-on "Python Programming". Sensor interfacing on "Raspberry -pi".	21 – 25/07/2022 one week	Organizer, Dept. of ECE, JSSATEB, Event sponsored by SPICES team of Institutional Development Cell, AICTE, New Delhi,	4th sem students, ISE- 30%	PO2, PO5, PO8, PO11, PO12; PSO1, PSO3
4.	Object Oriented Concepts [18CS45]	S/w Packages for Robust Web server design	workshop, "NodeJS and ReactJS"	23/07/2022	Mr. Pawan Ranjit , Associate Software Engineer, M/s J P Morgan Chase, Bangalore.	190, 4th sem ISE CSE	PO2, PO5, PO8, PO12; PSO1, PSO3
5.	Data Communication [18CS46]	Security challenges in Internet applications	workshop on Introduction to Cyber security	15/7/2022	Mr. Ajay Ganapule, Program Manager Mr. Praveen Chandran , Academic Relationship Manager M/s Tata Consultancy services, Bangalore	170, 4th sem ISE CSE	PO2, 6,7; PSO3

6.	Artificial Intelligence and Machine Learning [18CS71]	Task automation, industry working environment	Industry visit to M/s. Avery Dennison Peenya	7/5/ 2022	Industry professionals , demonstrated the robotic RFID manufacturing machines	40%, 6th sem ISE	PO5, 6, 7, 12; PSO3
7.	Internet of Things [18CS81] Artificial Intelligence and Machine Learning [18CS71]	AI/ML algorithms in IOT	FDP on "Current Advancements Of Machine Learning In Terms Of AI & IOT (AIOT)"	25-29/04/ 2022 one week	Resource persons-Industry experts and Professors from NIT Warangal	30% 6th, 8th sem students and faculty	PO2, 3, 5, 6, 7, 8, 12; PSO3
8.	Cloud Computing and its Applications [18CS643]	cloud role in enterprise growth	(virtual mode) Expert talk on "Cloud is enabling enterprises in sustainability journey"	21/02/ 2022	Mr. Sudip Dutta, Lead Architect, M/s IBM India Private Limited	7th, 5th sem ISE, 80%	PO2, PO5, PO6, PO8, PO11, PO12; PSO1, PSO3
9.	Artificial Intelligence and Machine Learning [18CS71]	AI in multi-disciplinary approach	Virtual mode, FDP on Thrust Areas in Artificial Intelligence, a multidisciplinary approach.	7/2/ 2022 to 11/2/ 2022 1 week	Resource persons-Industry experts and Professors 1. Dr. Rajneesh Ratna, Gedu College of Business Studies, Royal University of Bhutan, Bhutan. 2. Dr. Suja R Nair, Educe Micro Researcher, Bengaluru.	7th, 5th sem ISE, 30%, and faculty	PO2,3 PO5, 6, 7, 12; PSO3
10.	Software Engineering [18CS35]	SDLC models usage case studies	Virtual mode , SDP on ASPICE Model in Software Engineering	4/2/ 2022	Mr. Gunasekaran and Team, M/s Visteon Corporations, Bangalore	3rd, 5th sem ISE, 90%	PO2, 3, 5, 7,8, 12; PSO2, 3
11.	Data Mining and Data Warehousing [18CS641] Big Data Analytics [18CS72]	Analytical tools for large data analysis	SDP on Tools and Technologies for Data science & Big Data Analytics	4/2/ 2022	Mrs.Sushmitha.M, Associate SAP Consultant, Accenture, Prabhushankar ,Asst. Prof. ,Dept. of IEM, JSSATEB	7th, 5th sem ISE, 60%	PO2, 5, 7, 8 12; PSO3
12.	Computer Networks and Security [18CS2] Cryptography [18CS744]	Cyber security	Virtual mode , SDP on Ethical Hacking	29/01/ 2022	Mr.Adithya, M.S in Cyber Security, EC-Council Certified Instructor	5th sem ISE, 80%	PO2,3,5, 6, 7, 12; PSO3

13.	Storage Area Networks [18CS822] Computer Networks and Security [18CS52]	Tool kits for network storage analysis	Virtual mode , Research Development program on "SBK :Storage Benchmarking Kit"	22/01/ 2022	Dr. Keshava Munegowda , Vice president, SecDB Engineering, M/s Goldsman Sachs, Bengaluru .	5th sem ISE, 70%	PO2,5, 7,8, 12; PSO3
14.	Computer Networks and Security [18CS52]	Networking Infrastructures	Alumni Talk on Industry Perspective of Integration of Infrastructure.	4/12/ 2021	Deepika N, Data Engineer, M/s Robert Bosch, Bengaluru	5th sem ISE, 60%	PO2,3,5, 7, 8,12; PSO3
15.	Database Management System [18CS53]	databases for Social network and multimedia applications	Technical talk, "Introduction to NoSQL database (Redis, Cassandra, MongoDB, BigTable, HBase, Neo4j)"	19/11/ 2021	Ms. Subh Hari, Performance Architect, M/s IBM, India	5th sem ISE, 90%	PO2, PO5, PO7, PO8, PO11, PO12; PSO1, PSO3
16.	Application Development using Python [18CS55]	Universal language solution for AI/ML	workshop on Machine learning Artificial Intelligence using python	18-11– 2021	Mr. Manish Singh , Head , MSITA-ATS Learning solutions	7th, 5th sem ISE, 80%	PO2,3,5, 7,8 12; PSO1, 3
17.	Software Engineering [18CS35]	Modern life cycle model industry case study	Expert Talk on Scrum	22-10- 2021	Mrs. Pramodini Arun ,Scrum Master, British Petroleum, UK	3rd, 5th sem ISE, 80%	PO2, 3, 5, 7,11, 12; PSO2, 3

Table: List of Curriculum Gaps identified in Courses due to Technological change

AY 2020-21

Sem	Course Title with Code	Curriculum Gap identified	Level of Curriculum Gap	Relevance with POs, PSOs
3rd	Data Structures and Applications [18CS32]	Real world application of linear and non linear Data Structures	Course level	PO2, PO5, PO7, PO8, PO11; PSO1, PSO3
5TH	Management Entrepreneurship for IT Industry [18CS51]	• IPR for Innovators • Opportunities for Entrepreneurs in contemporary world	Course level	PO3, PO6, PO7, PO8-PO12; PSO3
5th	Database Management System [18CS53]	Hands-on NoSQL Database applications and packages	Course level	PO3, PO5, PO6, PO7, PO8, PO11; PSO1, PSO3
7th	Cloud Computing and its Applications [17CS742]	• Cloud storage for Database applications • Data center management	Course level	PO2, PO3, PO5, PO7, PO8 PSO3
7th	Machine Learning [17CS73]	AI strategy for task automation	Course level	PO3, PO4, PO5, PO6, PO7, PO8 PSO3
7th	Web Technology and its applications [17CS71]	Progressive Web Apps, Responsive Websites, SPA, MPA	Course level	PO3, PO5, PO6, PO7, PO8, PO11; PSO1, PSO3
7th	Information and Network Security [17CS743]	Case studies of Cryptographic tools	Course level	PO2, PO5, PO6, PO7, PO8, PO10, PO11; PSO3
8th	Project work [17CSP83]	• Research experience and Governance for entrepreneurs • Research Paper authoring and publication skill	Course level	PO3, PO4, PO5, PO6, PO8-PO12 PSO3
6th	Web Technology and its application [18CS63]	• Industrial Framework for web application development • Full stack, new avenue for web design	Course level	PO3, PO5, PO7, PO8, PO11, PSO1, PSO3
6th	Cloud Computing and its Applications [18CS643]	As virtualization platform ,Cloud Applications in IT: case studies	Course level	PO3, PO4, PO5, PO7, PO11; PSO3

Curriculum Gap coverage details

AY (2020- 21)

Sl. No	Course with Code	CBS/ Curriculum Gap identified	Action taken to bridge the Gap	Date-	Resource Person with designation	% of students	Relevance to POs, PSOs
1.	Data Structures and Applications 18CS32	Applications of data structures like stack, queues, Hashing, Linked List.	Demonstrated the 12 programs related to data structures using VLab.	15-12-2020	Anitha P, Asst Prof., ISE, JSSATEB	80%, 5th sem ISE	PO6, PO8, PO10, PO12. PSO3.
2.	Management Entrepreneurship for IT Industry 18CS51	Procedure to file a Patent	Technical talk was conducted on "Intellectual Property Rights - Know Your Rights" by	16-12-2020	Dr. Gowreesh S S, Associate Professor, Dept. of ME, JSSATE, Bengaluru	89% 5th sem ISE	PO1, PO6, PO8, PO12, PSO3.
3.		Opportunities in Entrepreneurship	Technical Talk on "Entrepreneurship-Opportunities in Data Sciences"	4-11-2020	Dr. Chethana Hegde, Manager, Data Science,Manipal .ProLearn	90% 5th sem ISE	PO1 ,PO2, PO12, PSO3
4.	Database Management System [18CS53] Cloud	Application of DBMS using Cloud.	Webinar on "Cloud-based applications using DBMS with case studies"	19-10-2020	Ms. Ishwarya N (Alumni), Student of MS, University of Texas, Arlington	90% 5th , 7th sem ISE	PO1, PO2, PO3 PSO3
5.	Computing and its Applications [17CS742]	NoSQL Databases	Webinar "NoSQL Databases"	26-11-2020	Mr. Manjit Singh Sodhi, IT Architect, IBM Bengaluru.	86% 5th , 7th sem ISE	PO1, PO2, PO3, PO12
6.	Machine Learning [17CS73]	AI Algorithms for Automation of Tasks	Webinar on Robotics Process Automation – an Overview	21/11/ 2020	Mr. Ravi Shankar Rao Emaneni, Sr. Director, Intelligent Automation and Data Solutions, M/s NTT Data, Bengaluru	60% 5th , 7th sem ISE	PO3,5,6,8; PSO3

7.	Web Technology and its applications 17CS71	Advanced topics - Progressive Web Apps, Responsive Websites, SPA	Students presented the topic as seminar and submitted the report	8-12-20 to 15-12-20	Dr. Nagamani, Asst Prof., ISE, JSSATEB	80% 7th sem ISE	PO1, PO2, PO4, PO6, PO12 PSO3
8.	Information and Network Security 17CS743	Analysis of crypto tools	Students select a Cryptographic tool and demonstrate	21-11-2020	Anitha P, Asst Prof., ISE, JSSATEB	65% 7th sem ISE	PO5, PO6, PO8, PO10, PO12; PSO3.
9.	Cloud Computing and its Applications [18CS643]	Cloud application case studies	Seminar on Cloud Computing for real time applications	26/02/ 2021	Mr. Suhas Aryan Cloud App Specialist, M/s Accenture, Bengaluru	50%, 6th , 8th sem ISE	PO5, PO6, PO10, PO11, PO12; PSO3.
10.	Management, Entrepreneurship for IT Industry [18CS51]	Enterprise Information Governance	Expert talk on Industry and Research experience on Enterprise Information Governance	15/5/ 2021	Mr. Jay H Karia, Sr. Managing Consultant, IBM, Bengaluru	90% 6th sem ISE	PO6, PO8, PO10, PO12; PSO3.
11.	Web Technology and its application [18CS63]	Industrial Framework for web application development	Expert talk on Popular Framework for web application development	15/05/ 2021	Mr. Ani Reddy, Co-Founder, M/s EduStack, Bangalore	90% 6th sem ISE	PO5,7,8; PSO1, 3
12.	Cloud Computing and its Applications [18CS643]	Overview of Cloud owning industries	Technical talk on Cloud and its Applications in IT: An Overview	29/05/ 2021	Mr. Sachin Biradar, Google Cloud Data Engineer, M/s Fossil Group, Bangalore	60% 6th , 8th sem ISE	PO5, PO6, PO8, PO10, PO12; PSO3.
13.	Project work [17CSP83]	Guidance for Research Paper authoring and publication	Webinar on Research Paper writing skills for beginners	04/06/ 2021	Dr. C K Umesh, Professor UVCE college of Engineering	50% 6th, 8th sem ISE	PO4, PO5, PO6, PO8, PO10, PO12; PSO3.
14.	Project work [17CSP85]	Guidance for Research Paper authoring and publication	NCAIT 2021 National Conference	18/06/ 2021	Ms. Tejal, HR at Namaste Credits	ISE and external participants	PO4, PO9-12

Table: List of Curriculum Gaps identified in Courses due to Technological change

AY 2019-20

Sem	Course Title with Code	Curriculum Gap identified	Level of Curriculum Gap	Relevance with POs, PSOs
7th	Web Technology & its applications [15CS71]	• Cross platform apps, progressive apps, single page apps • Voice search optimization tools	Course level	PO3, PO5, PO7, PO8, PO11; PSO1, PSO3
7th	Machine learning [15CS73]	• AI and ML to Social, humanitarian and environmental problems • Tools for ML and DL -Tensor flow	Course level	PO3, PO4, PO5, PO6, PO7, PO8 PSO3
7th	Cloud Computing and its Application [15CS742]	• Amazon web services and cloud services AWS, • Sumo logic – SAAS and Cloud applications	Course level	PO2, PO5, PO7, PO8, PO11, PSO2, PSO3
7th	Information Management System [15IS753]	• Decision Support tools • Business Intelligence tools	Course level	PO3, PO5, PO7, PO8, PO9, PO10, PO12; PSO2, PSO3
5th	Computer Networks [17CS52]	• Architecture of Web applications- Internet telephony, Social networks • Mobile technologies	Course level	PO3, PO5, PO6, PO7, PO8, PO11, PO12; PSO3
5th	Database Management [17CS53]	• Distributed Databases and its challenges	Course level	PO3, PO4, PO5, PO7, PO8, PO11; PSO3
5th	Automata theory and Computability [15CS54]	• Machine models for analytical & logical thinking (gaming, security) • Computability to Executability	Course level	PO3, PO5, PO7, PO8, PO11, PSO3
5th	Advanced JAVA and J2EE [17CS553]	• Java frameworks- Spring, Grails, Blade • Google Web toolkit	Course level	PO3, PO5, PO7, PO8, PSO1, PSO3
5th	Artificial Intelligence [17CS562]	• Applications of AI • Statistical reasoning • Machine Learning & Deep Learning technologies	Course level	PO3, PO5, PO6, PO7, PO8, PO11; PSO3
3rd	Analog and Digital Electronics [18CS33]	• AI transforming consumer electronics sector • CAEML- Machine Learning for Hardware design	Course level	PO3, PO5, PO6, PO7, PO8, PO11, PSO3
3rd	Computer Organization [18CS34]	• Embedded system – Architecture and applications	Course level	PO2, PO5, PO7, PO8, PSO3
3rd	Software Engineering [18CS35]	• Software Engineering tools- Agile and Scrum	Course level	PO3, PO5, PO6, PO7, PO8, PO11, PSO2, PSO3

Curriculum Gap coverage details

AY 2019- 20

Sl. No.	Course with Code	CBS/ Curriculum Gap identified	Action taken to bridge the Gap	Date-	Resource Person with designation	% of students	Relevance to POs, PSOs
1.	Web Technology & its applications [15CS71]	● Cross platform apps, progressive apps, single page apps ● Voice search optimization tools ● Case Study on web technologies used in apps like whatsapp, facebook	Technical Talk on, "Advances in Web Technologies and AI"	1st Aug 2019	Nikhil G Rao, Software Engineer, M/s PayPal, San Francisco	60% 7th sem ISE	PO2, PO3, PO5, PO12, PSO3
2.			Discussion on social networking apps	3rd sep 2019	Aditya V under the guidance of Dr. Nagamani N P, Asst. Prof., ISE, JSSATEB		PO1, PO2, PO5, PO12, PSO1, PSO2, PSO3
3.			Technical Talk, "Web Technologies"	28th Aug 2019	Ashok Kumar K, Technical Team leader, M/s IBM India S/W labs, Bangalore		PO2, PO3, PO5, PO12, PSO3
4.	Machine learning [15CS73]	Application of ML Algorithm to Image Dataset	Implementation of Color Quantization using K means for Image Dataset	8th Nov 2019	Nagashree S, Asst. Prof., ISE, JSSATEB	70% 7th sem ISE	PO1, PO2, PO4, PO6, PSO3
5.	Cloud Computing and its Application [15CS742]	● Amazon web services and cloud services AWS, ● Sumo logic – SAAS and Cloud applications	Technical Talk, "Cloud Computing – applications and Storage"	19th Nov 2019	Monika Kapoor, Head of Data services, M/s Philips Innovation campus, Bangalore	60% 7th sem ISE	PO3, PO5, PO6, PO7, PO8, PO9, PO12; PSO3
6.		Meta CDN :storage clouds for low cost ,high performance Content Delivery Network	Class room discussion on Awareness of Meta-CDN, to harness the power of cloud storage providers	22nd Nov 2019	Dr. Rekha P M, Assoc. Prof., ISE, JSSATEB		PO1, PO2, PO12, PSO3
7.		Data centers	Industrial Visit: IBM India Pvt. Ltd , Koramangala Inner Ring Road, Bangalore Green Data Centre (GDC),	15th Oct 2019	Mekala V Reddy, Business Operations Leader- IBM Cloud Integration Expert Labs, Description – Data centers, career opportunity in IBM, etc	60% 7th sem ISE	PO5, PO12, PSO3

No.	Course	Topic	Activity	Date	Resource Person	% / Sem	POs
8.	Computer Networks [17CS52]	Architecture of Web applications- Internet telephony, Social networks Mobile technologies	Demonstration of Mini projects (12 nos.) on Computer Networks Sample titles- "SKYPE", text chat, "Video Fragmentation and communication", "Creation and verification of Digital signature"	Nov 2019 A/N	Students team, under the guidance of Mamatha G, Asst. Prof., ISE, JSSATEB	60% 5th sem ISE	PO2, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO3
9.		Network Management	Technical Talk, "Element management System"	19th Oct 2019	Sandesh Komarala, Lead Software Engineer, M/s Radisys India Pvt ltd, Bangalore	70% 5th sem ISE	PO3, PO5, PO6, PO7, PO8, PO9, PO12; PSO3
10.	Database Management [17CS53]	Distributed Databases and its challenges	Technical Talk, "Database Systems: NoSQL, MongoDB, SQLDb"	8th Nov 2019	Subha Hari, Technical leader, M/s IBM, Bangalore	60% 5th sem ISE	PO3, PO4, PO5, PO7, PO8, PO9, PO10, PO12; PSO3
11.	Automata theory and Computability [15CS54]	Visualization of construction/ transformation/ acceptance or rejection of Input of various Automata (FSM, PDA, TM)	Demonstration of few problems on, Finite Automata Simulator "JFLAP"	16/9/ 2019	Students team, under the guidance of Mamatha G, Asst. Prof., ISE, JSSATEB	70% 5th sem ISE	PO3, PO5, PO6, PO8, PO9, PO10, PO12; PSO3
12.	Advanced JAVA and J2EE [17CS553]	Java frameworks	SDP (2 days) "Mobile Application Development"	30th, 31st Aug 2019	Nagendra Nymagondalu & team, M/s Skill Velocity, Bangalore	60% 5th sem ISE	PO3, PO5, PO7, PO8, PO9, PO10, PO12; PSO3
13.		Google Web toolkit	SDP (2 days) " Angular Bootcamp"	20th, 21st Sep 2019	Srinath Waramballi, M/s Tantragnana, Bangalore		PO1, PO2, PO3, PO5, PO12, PSO3
14.		"Applications of enumerations and auto-boxing to create singletons"	Classroom discussion	21st sep 2019	Divya D, Nityashree, Ayesha under the Guidance of Dr. Nagamani N P, Asst. Prof., ISE, JSSATEB		PO1, PO2, PO3, PO5, PO12, PSO1, PSO2, PSO3
15.	Artificial Intelligence [17CS562]	● Applications of AI ● Statistical reasoning ● Machine Learning & Deep Learning technologies	Technical talk, Statistical Analysis in Artificial Intelligence using Naïve Bayes Method	16th oct 2019	Mrs. Fathima Afroz, Asst. Prof., ISE, JSSATEB	60% 5th sem ISE	PO3, PO5, PO8, PO12; PSO3
16.		Text Analytics Using R : Baggage detection Problem for airline data	Classroom discussion	3rd Nov 2019	Dr. Malini M Patil, Assoc. Prof., ISE, JSSATEB		PO3, PO5, PO6, PO7, PO8, PO9, PO12, PSO3

17.	Analog and Digital Electronics [18CS33]	● AI transforming consumer electronics sector ● CAEML- Machine Learning for Hardware design	Seminar on, "Machine learning for hardware design by CAEML"	7th nov 2019	Dr. Rekha P M, Assoc. Prof., ISE, JSSATEB	60% 3rd sem ISE	PO1, PO2, PO3, PO12, PSO3
18.	Computer Organization [18CS34]	Embedded system – Architecture and applications	Industrial Visit: N A L, Old airport road, Bangalore	26th sep 2019	Description on Design and Architecture of Control systems for Air crafts by scientist of NAL	60% 3rd sem ISE	PO3, PO4, PO5, PO7, PO8, PO9, PO10, PO12; PSO3
19.	Software Engineering [18CS35]	Software Engineering tools- Agile and Scrum	Workshop (1 day), "Design Thinking"	16th Nov 2019	Technical Team from SAP labs, in association with Ananya foundation, Bangalore	60% 3rd sem ISE	PO3, PO5, PO6, PO7, PO8, PO9, PO12; PSO3
20.		Practical Approach of Software Engineering Tools	Demonstration of Tool – Eclipse Lunar	22nd Nov 2019	Nagashree S, Asst. Prof., ISE, JSSATEB		PO1, PO2, P04, PO5, PO6, PO9, PSO3
21.	Data Communication [18CS46]	Network simulators, tools for measuring N/w performance	Technical Talk, " Power of Computer Networking"	20th Feb 2020	Aishwarya G Software Engineer M/s Ruckus Networks, Bangalore	80% 4th sem ISE	PO1, PO2, P04, PO5, PO6, PO9, PSO3
22.	Microcontroller & Embedded Systems [18CS44]	RTOS (VX Works) Based Control and Safety Monitoring System For Nuclear Power Plants	Video demonstration	15/ 5/ 2020	Dr. Rekha P M, Assoc Prof., ISE, JSSATEB	90%, 4th sem ISE	PO5, PO12
23.	Operating System 17CS64	multithreaded programming with windows API, multithreaded programming with P threads	algorithms explained and implementation of code and execution checked online	16th May 2020	Dr. Chayadevi, Assoc Prof., ISE, JSSATEB	100% 6th sem ISE	PO3, PO4, PO5, PSO1, PSO2, PSO3