



JSS MAHAVIDYAPEETHA

JSS ACADEMY OF TECHNICAL EDUCATION, BENGALURU

Affiliated to Visvesvaraya Technological University, Belagavi, Karnataka, INDIA Approved
by All India Council for Technical Education, New Delhi
UG programs accredited by NBA: ECE, CSE, ISE, CIVIL, E & IE and MECHANICAL

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

List of additional topics covered to bridge the curriculum gaps in every academic year (2019-2023)

S. No	Course Name and Code	Identified Gaps	Course of Action
1	INNOVATION and DESIGN THINKING	Explore Engineering solutions in Societal and environmental contexts	Group activity on wastage and sewage sanitization
2	Management and Entrepreneurship	Exposure to the latest technologies adapted in software development	Analog and Digital Electronics (ADE) Mini Projects Final year Projects
3	Cryptography, Network security and Cyber law	To address the following gaps <ul style="list-style-type: none">• Critical infrastructure security.• Application security.• Network security.• Cloud security.• Internet of Things (IoT) security.	Seminar on Cyber Security Webinar on Cyber security and trends Webinar on Cyber crimes and digital forensics Workshop on Embracing industry 4.0 -Cyber security
4	Computer Networks	There is a need to enhance the knowledge in latest Computer Network domain	Industry visit to CSIR -4PI Webinar on Importance of Network Security and IT Technologies

5	Management and Entrepreneurship	Encourage students to become entrepreneurs and providing awareness to open startups.	Industry visit to STPI
			Webinar on Entrepreneurship ecosystem
			Webinar on Leadership and Management – Early Steps after Graduation
6	Internet of Things	To enable the students to explore the various applications in IOT Domain	Webinar on Introduction to IoT Solutions – Market, Applications and Impact.
			Webinar on “IoT possibilities for digital transformation”
			Webinar on “Reinventing Business with IoT”- Alumni Initiative
			Design and Simulation of IoT Systems Using the Cisco Packet Tracer
7	Cloud Computing	Awareness of Cloud architecture in public domain	Webinar on Cloud Native
			Data Center and Cloud Computing
8	Big Data analytics	Exposure to latest technologies related to data storage	Webinar on The Next Gen Data Scientist
			Webinar on Big Data Analytics and its opportunities

9	Web Technology and its Application	Knowledge related to latest GUI Development	Model-View-Controller (MVC)
10	AI and Machine Learning	Development of ML methods in agriculture and industry.	Webinar on Industrial Applications of Machine Learning
			Seminar on Artificial Intelligence, Machine Learning and .Net Applications
11	Software Engineering	Exposure to the latest technologies adapted in software development	Seminar on Building Artificial Intelligence software
12	Web Technology	Awareness about the working of search engines	Webinar “An Introduction to Search Engines”
13	Information and Network Security	Applications of cryptography in INS.	Case study on applications of cryptography for realworld problems
14	Analog and Digital electronics	Usage of Analog and Digital design and applications in Industry.	Webinar on Applications of Digital Electronics in industry
			Webinar on “Digital data storage Technologies”
			Webinar on Applications of Analog and Digital Electronics
15	Storage area Networks	Latest technologies related to Data centers	Webinar on Applications of SAN in Data Centers
16	Discrete Mathematical Structures	Mathematical Models for solving realworld applications	Webinar on Applications of Discrete Mathematical Structures

17	Database Management systems	Exposure to NoSQL and Node.js For development of client server applications	Webinar on Database Application Development
			Hand on Workshop on Node.js
18	System software and CompilerDesign	Importance of Compilers in modern programming languages	Insights on System software and Compiler Applications
			LR Parser
19	Computer Organization	Exposure to Simulation tools	Virtual lab practices using CPU OS simulator software
20	Microcontroller and EmbeddedSystems	Applications of Microcontroller in solving real world problems	Webinar on “ Importance of Embedded System Developmentand Current Trends”
21	Python application	Enhancement of knowledge in various packages of Python.	Python Coding with application projects and Solutions”