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HKBK COLLEGE OF ENGINEERING, BENGALURU

Syllabus- Internet Of Things Technology

- Assess the genesis and impact of IoT applications, architectures in real world. Illustrate diverse methods of deploying smart objects and connect than to perwork. Compare different Application protocols for IoT. Infer the role of Data Analytics and Security in IoT. Identifysensor technologies for sensing real world entities and understand the role of IoT in various domains of Industry.

Course Outcomes: After studying this course, students will be able to

- Interpret the impact and challenges posed by IoT networks, leading to new architectural models.
- Compose and conteast the deployment of smart objects and the technologies to connect them to network
- Appraise the role of IoT protocols for efficient network communic Elaborate the need for Duta Analytics and Security in IoT.
- Illustrate different sensor technologies for sensing real world antities and identify the applications of IoT in Industry.

Syliabus- Internet Of Things Technology What is IoT, Genesis of IoT, IoT and Digitization, IoT Impact, Convergence of IT and IoT, IoT Challenges, IoT Network Architectures and Design, Drivers Behind New Network Architectures, Comparing IoT Architectures, A Simplified IoT Architecture, The Core IoT Functional Stack, IoT Data Menagement and Compute Stack. Smart Objects: The "Things" in IoT, Sensors, Actuators, and Smart Objects. S Networks, Connecting Smart Objects, Communications Criteria, IoT Access Module - 3 IP as the IoT Network Layer, The Business Case for IP. The need for Optimization, Optimizing IP for IoT, Profiles and Compliances, Application Protocols for IoT, The Transport Layer, IoT Application Transport Methods.



Ouestion paper will have ten questions. The question paper will have ten questions. There will be 2 questions from each module. Each question will have exceeding all the topics under a module. The students will have to answer 5 full questions, selecting one full question from each module. Text Books: 1. Durid Harses, Gentralo Salgueino, Patrick Grossettele, Robert Barton, Jerome Herry, "left Fundamentatisk Networking Technologies, Protocols, and Use Cross for the Internet of Things", 1"Edition, Patrick Technologies, Protocols, and Use Cross for the Internet of Things", 1"Edition, Patrick Technologies, Protocols, and Use Cross for the Internet of Things", 1"Edition, Patrick Technologies, Protocols, and Use Cross for the Internet of Things", 1"Edition, Patrick Technologies, Protocols, and Use Cross for the Internet of Things", 1"Edition, Patrick Office Pros. Indian Reprint. (ISBN: 978-91540821) 2. Sentones & G. "Internet of Things", "Internet of Things (A. Hands-on-Approach)", 1"Edition, VPT, 2014. (ISBN: 978-915-208224) 2. Rej Karnal. "Internet of Things: Architecture and Dosign Principles", 1" Edition, McCrow Hill Education, 2017. (ISBN: 978-915-208224)

Module - 3 IP as the IoT Network Layer

IPas the IoT Network Layer:

- The Business Case for IP: This section discusses the advantages of IP from an IoT perspective and introduces the concepts of adoption and adaptation.
- The Need for Optimization: This section dives into the challenges of constrained nodes and devices when deploying IP. This section also looks at the migration from IPv4 to IPv6 and how it affects loft networks.
- Optimizing IP for IoT: This section explores the common protocols and technologies in IoT networks utilizing IP, including 6LoWPAN, STISCH, and RPL.

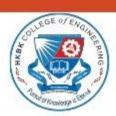
Profiles and Compliances: This section provides a summary of some of the most significant organizations and standards bodies involved with IP connectivity and LoT. 10 Sept. Section 162 E3										×	×	×	×	×	×	×	×
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SEMESTER - VIII										
Subject Code	15CS81	IA Marks	20							
Number of Lecture Hours/Week	04	Exam Marks	80							
Total Number of Lecture Hours	50	Exam Hours	03							

CREDITS - 04



HKBK COLLEGE OF ENGINEERING, BENGALURU

Syllabus- Internet Of Things Technology

Course Objectives: This course will enable students to

- Assess the genesis and impact of IoT applications, architectures in real world.
- Illustrate diverse methods of deploying smart objects and connect them to network.
- Compare different Application protocols for IoT.
- Infer the role of Data Analytics and Security in IoT.
- Identifysensor technologies for sensing real world entities and understand the role of IoT in various domains of Industry.

Course Outcomes: After studying this course, students will be able to

- Interpret the impact and challenges posed by IoT networks leading to new architectural models.
- Compare and contrast the deployment of smart objects and the technologies to connect them to network.
- Appraise the role of IoT protocols for efficient network communication.
- Elaborate the need for Data Analytics and Security in IoT.
- Illustrate different sensor technologies for sensing real world entities and identify the applications of IoT in Industry.

Dr. Syed Mustafa, HKBKŒ

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