

Model Question Paper-I with effect from 2022-23 (CBCS Scheme)

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First/Second Semester B.E. Degree Examination

Introduction to Internet of Things (IOT)

TIME: 45 Minutes

Max. Marks: 100

Note: 01. Answer any **FIVE** full questions, choosing at least **ONE** question from each **MODULE**.

Module - 1			Bloom's Taxonomy Level	Marks
Q 01	a	Classify network types based on physical topologies and connection types with schematic diagrams.	B.2	10
	b	Explain the IoT planes, various enablers of IoT, and the complex interdependencies among them with a block diagram.	B.2	10
OR				
Q 02	a	Explain networked communication between two hosts following the TCP/IP suite with a block diagram.	B.2	08
	b	Outline the interdependencies and reach of IoT over various application domains and networking paradigms.	B.2	08
	c	Summarize the characteristic features of IoT systems.	B.2	04
Module-2				
Q 03	a	Outline the basic differences between transducers, sensors, and actuators.	B.2	06
	c	Compare mechanical, soft, and shape memory polymer based actuators.	B.2	06
	b	Classify sensing types based on the nature of the environment and the physical sensors.	B.2	08
OR				
Q 04	a	Compare the common commercially available sensors used for IoT based sensing applications.	L2	06
	b	Outline a simple actuation mechanism.	L2	06
	c	Explain four common characteristic actuators used for actuation.	B.2	08
Module-3				
Q 05	a	Explain event detection using an off-line remote processing topology with a block diagram.	B.2	10
	b	Explain the data offloading strategies: Offload location and Offload decision making.	B.2	10
OR				
Q 06	a	Contrast between structured and unstructured data. Outline various data generating and storage sources with a block schematic.	B.2	10
	b	Outline an IoT deploy model (processing offloading) with the various layers of processing involving different application domains with a diagram.	B.2	10
Module-4				
Q 07	a	Explain the architecture of a smart irrigation management system.	B.2	06
	b	Classify the deployment model of Cloud with relevant explanation.	B.2	06
	c	Explain the importance and matrix of Service-Level Agreement (SLA) in Cloud Computing.	B.2	08
OR				
Q 08	a	Classify virtualization based on the requirements of the users. Explain.	B.2	08
	b	Explain architecture of a sensor-cloud platform with block diagram.	B.2	08
	c	Explain the features of CloudSim.	B.2	04
Module-5				
Q 09	a	Explain fog framework for intelligent public safety, healthcare environments.	B.2	10

Transportation 1 Vtu E Learning Notes

**K. O. Anderson, University of Alberta.
Department of Civil Engineering**

Transportation 1 Vtu E Learning Notes:

Computational Intelligence in Machine Learning Vinit Kumar Gunjan, Amit Kumar, Jacek M. Zurada, Sri Niwas Singh, 2024-02-20 This volume comprises select proceedings of the International Conference on Computational Intelligence in Machine Learning ICCIML 2022. The contents cover latest research trends and developments in the areas of machine learning, smart cities, IoT, Artificial Intelligence, cyber physical systems, cybernetics, data science, neural network, cognition, among others. It also addresses the comprehensive nature of computational intelligence, AI, ML, and DL to emphasize its character in modelling, identification, optimization, prediction, forecasting, and control of future intelligent systems. This volume will be a useful guide to those working as researchers in academia and industry by presenting in depth fundamental research contributions from a methodological application perspective in understanding Artificial intelligence and machine learning approaches and their capabilities in solving diverse range of problems in industries and its real world applications.

Internet of Vehicles and Computer Vision Solutions for Smart City Transformations Anuj Abraham, Shitala Prasad, Ahmed Alhammadi, Thierry Lestable, Ferdaous Chaabane, 2025-02-19 This book compiles recent research endeavors at the intersection of computer vision (CV) and deep learning for Internet of Vehicles (IoV) applications which are pivotal in shaping the landscape of smart cities. These technologies play instrumental roles in enhancing various facets of urban life encompassing safety, transportation infrastructure management, and sustainability. The amalgamation of CV and deep learning within smart cities creates a powerful synergy that fosters safer, more efficient, and sustainable urban environments. By harnessing these cutting edge technologies to drive data driven decision making, cities can elevate the quality of life for their inhabitants, mitigate environmental impact, and optimize overall urban functionality. Additionally, this compilation provides in depth technical and scientific insights into various facets of artificial intelligence (AI) technologies, including forthcoming trends and innovations that are poised to transform smart cities. The book also extends its focus to other areas of smart city development. It explores the application of these technologies in the creation of smart parking solutions, discusses the role of surveillance for public safety, and examines how CV and IoV can be utilized for environmental monitoring. The book also delves into urban planning and infrastructure development, emphasizing the importance of a data driven approach. It sheds light on the social impact of smart cities and the importance of citizen engagement and discusses issues of security and privacy in the context of smart cities. The book concludes with a look at future trends and challenges in the field of smart cities. Targeted at researchers, practitioners, engineers, and scientists, this book is geared toward those engaged in the development of advanced algorithms for future forward smart city applications in computer vision, vehicular networking, communication technology, sensor devices, IoT, communication, vehicular, and on road safety, data security, and services for IoV related devices.

The National Union Catalogs, 1963- ,1964 **National Union Catalog** ,1980 Includes entries for maps and atlases **National Union Catalog, 1980** ,1981 Teachers' Journal ,1963 **National Union Catalog,**

1981 ,1982 *Introduction to Transportation Engineering* K. O. Anderson, University of Alberta. Department of Civil Engineering, 1986 **Course Notes** ,1951

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