

LESSON PLAN – 2022 - 2023

DISCIPLINE: IT	SEMESTER: 6th	NAME OF THE TEACHING FACULTY: REETANJALI PANDA
SUBJECT:CNS	NO.OF DAYS/PER WEEK CLASS ALLOTTED:4	SEMESTER FROM DATE: 14/02/2023 TO DATE: 23/05/2023 NO.OF WEEKS:15
WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1 ST	1 ST	Possible attacks on computers
	2 ND	The need for security
	3 RD	Security approach
	4 TH	Principles of security
2 ND	1 ST	Types of attacks
	2 ND	Cryptography concepts
	3 RD	Cryptography concepts
	4 TH	Plain text
3 RD	1 ST	Cipher Text
	2 ND	Substitution techniques
	3 RD	Transposition techniques
	4 TH	Encryption techniques
4 TH	1 ST	Decryption techniques
	2 ND	Symmetric key cryptography
	3 RD	Asymmetric key cryptography
	4 TH	Symmetric key algorithms
5 TH	1 ST	Symmetric key algorithm types
	2 ND	Symmetric key algorithm types
	3 RD	Asymmetric key algorithms
	4 TH	Asymmetric key algorithm types
6 TH	1 ST	Overview of Symmetric key cryptography
	2 ND	Overview of Symmetric key cryptography
	3 RD	Data encryption standards
	4 TH	Data encryption standards
7 TH	1 ST	Over view of Asymmetric key cryptography
	2 ND	The RSA algorithm
	3 RD	The RSA algorithm
	4 TH	Symmetric key cryptography
8 TH	1 ST	Asymmetric key cryptography
	2 ND	Digital signature
	3 RD	Digital certificate
	4 TH	Digital certificates
9 TH	1 ST	Public key infrastructure
	2 ND	Private key management
	3 RD	Private key management
	4 TH	PKIX Model
10 TH	1 ST	PKIX Model
	2 ND	Public key cryptography standards
	3 RD	Public key cryptography standards
	4 TH	Public key cryptography standards

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11 TH	1 ST	Internet security protocols
	2 ND	Basic concept
	3 RD	Secure socket layer
	4 TH	Transport layer security
12 TH	1 ST	Transport layer security
	2 ND	Secure Hyper text transfer protocol(SHTTP)
	3 RD	Secure Hyper text transfer protocol(SHTTP)
	4 TH	Time stamping protocol (TSP)
13 TH	1 ST	Secure electronic transaction (SET)
	2 ND	User authentication
	3 RD	Authentication basics
	4 TH	Password
14 TH	1 ST	Authentication Tokens
	2 ND	Certificate based authentication
	3 RD	Biometric authentication
	4 TH	Network Security & VPN
15 TH	1 ST	Brief introduction of TCP/IP
	2 ND	Firewall
	3 RD	IP Security
	4 TH	Virtual Private Network (VPN)
DISCIPLINE: IT	SEMESTER: 6th	NAME OF THE TEACHING FACULTY: SMT SUMITRA MAHAPATRA
SUBJECT: IOT	NO.OF DAYS/PER WEEK CLASS ALLOTTED:4	SEMESTER FROM DATE: 14/02/2023 TO DATE: 23/05/2023 NO.OF WEEKS:15
WEEK	CLASS DAY	THEORY TOPICS
1 ST	1 ST	Introduction to Internet of Things. Introduction.Characteristics of IoT . Applications of IoT
	2 ND	IoT Categories IoT Enablers and connectivity layers
	3 RD	Baseline Technologies Sensor
	4 TH	Actuator
2 ND	1 ST	IoT components and implementation
	2 ND	Challenges for IoT
	3 RD	IOT Networking . Terminologies.
	4 TH	Gateway Prefix allotment
3 RD	1 ST	Impact of mobility on Addressing
	2 ND	Multihoming
	3 RD	Deviation from regular Web 2.6
	4 TH	IoT identification and Data protocols
4 TH	1 ST	Connectivity Technologies . Introduction.
	2 ND	IEEE 802.15.4
	3 RD	IEEE 802.15.4
	4 TH	ZigBee, 6LoWPAN
5 TH	1 ST	RFID, HART and wireless HART

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	2 ND	NFC, Bluetooth, Z wave, ISA100.11.A
	3 RD	Introduction. Components of a sensor node .Modes of Detection
	4 TH	Challenges in WSN .Sensor Web .Cooperation and Behaviour of Nodes in WSN
6 TH	1 ST	Self Management of WSN .Social sensing WSN
	2 ND	Application of WSN .Wireless Multimedia sensor network
	3 RD	Wireless Nanosensor Networks. Underwater acoustic sensor networks.
	4 TH	WSN Coverage .Stationary WSN, Mobile WSN.
7 TH	1 ST	M2M communication
	2 ND	M2M communication
	3 RD	M2M Ecosystem
	4 TH	M2M Ecosystem
8 TH	1 ST	M2M service Platform
	2 ND	Interoperability
	3 RD	Programming with Arduino .Features of Arduino
	4 TH	Components of Arduino Board.
9 TH	1 ST	Arduino IDE
	2 ND	Case Studies
	3 RD	Case Studies
	4 TH	Programming with Raspberry Pi
10 TH	1 ST	Architecture and Pin Configuration
	2 ND	Case studies
	3 RD	Implementation of IoT with Raspberry Pi
	4 TH	Implementation of IoT with Raspberry Pi
11 TH	1 ST	Software defined Networking .Limitation of current network
	2 ND	Origin of SDN . SDN Architecture
	3 RD	Rule Placement, Open flow Protocol
	4 TH	Controller placement
12 TH	1 ST	Security in SDN
	2 ND	Integrating SDN in IoT
	3 RD	Smart Homes. Origin and example of Smart Home Technologies
	4 TH	Smart Home Implementation
13 TH	1 ST	Home Area Networks(HAN)
	2 ND	Home Area Networks(HAN)
	3 RD	Smart Home benefits and issues
	4 TH	Smart Cities.Characteristics of Smart Cities . Smart city Frameworks
14 TH	1 ST	Challenges in Smart cities
	2 ND	Data Fusion
	3 RD	Smart Parking
	4 TH	Energy Management in Smart cities

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15 TH	1 ST	Industrial IoT. IIoT requirements
	2 ND	Design considerations
	3 RD	Applications of IIoT .Benefits of IIoT .
	4 TH	Challenges of IIoT
DISCIPLINE : IT	SEMESTER:6th	NAME OF THE TEACHING FACULTY: SMT SUMITRA MAHAPATRA
SUBJECT:CC	NO.OF DAYS/PER WEEK CLASS ALLOTTED:4	SEMESTER FROM DATE: 14/02/2023 TO DATE: 23/05/2023 NO.OF WEEKS:15
WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1 st	1 st	1.1. Historical development 1.2. Vision of Cloud Computing
	2 nd	1.3. Characteristics of Cloud computing 1.4. Cloud computing Reference model
	3 rd	1.5. Cloud computing environment 1.6. Cloud Service requirements
	4 th	1.7. Cloud and Dynamic Infrastructure 1.8. Cloud Adoption
2 nd	1 st	1.9. Cloud applications
	2 nd	2.1. Introduction 2.2. Cloud Reference Model
	3 rd	2.1. Introduction 2.2. Cloud Reference Model
	4 th	2.3. Types of Clouds
3 rd	1 st	2.3. Types of Clouds
	2 nd	2.4. Cloud Interoperability and standards
	3 rd	2.4. Cloud Interoperability and standards
	4 th	2.5. Cloud computing Interoperability use cases
4 th	1 st	2.6. Role of standards in Cloud Computing environment
	2 nd	3.1. Introduction 3.2. Scalability and Fault Tolerance
	3 rd	3.1. Introduction 3.2. Scalability and Fault Tolerance

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	4 th	3.3. Cloud solutions 3.4. Cloud Ecosystem
5 th	1 st	3.5. Cloud Business process management 3.6. Portability and Interoperability
	2 nd	3.7. Cloud Service management 3.8. Cloud Offerings
	3 rd	3.9. Testing under Control 3.10. Cloud service Controls
	4 th	3.11. Virtual desktop Infrastructure
6 ^h	1 st	3.11. Virtual desktop Infrastructure
	2 nd	4.1. Create a virtualised Architecture 4.2. Data Centre
	3 rd	4.3. Resilience 4.4. Agility
	4 th	4.5. Cisco Data Centre Network architecture
7 th	1 st	4.6. Storage 4.7. Provisioning
	2 nd	4.8. Asset Management 4.9. Concept of Map Reduce
	3 rd	4.9. Concept of Map Reduce
	4 th	4.10. Cloud Governance 4.11. Load Balancing
8 th	1 st	4.12. High Availability 4.13. Disaster Recovery
	2 nd	5.1. Virtualisation 5.2. Network Virtualisation
	3 rd	5.3. Desktop and Application Virtualisation
	4 th	5.4. Desktop as a service
9 th	1 st	5.5. Local desktop Virtualisation 5.6. Virtualisation benefits
	2 nd	5.7. Server Virtualisation

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	3 rd	5.8. Block and File level Storage Virtualisation
	4 th	5.9. Virtual Machine Monitor 5.10. Infrastructure Requirements
10 th	1 st	5.11. VLAN and VSAN
	2 nd	6.1. Cloud Security Fundamentals
	3 rd	6.2. Cloud security services
	4 th	6.2. Cloud security services
11 th	1 st	6.3. Design Principles
	2 nd	6.3. Design Principles
	3 rd	6.4. Secure Cloud software requirements
	4 th	6.5. Policy Implementation
12 th	1 st	6.6. Cloud Computing Security Challenges
	2 nd	7.1. Architectural Considerations 7.2. Information Classification
	3 rd	7.3. Virtual Private Networks 7.4. Public Key and Encryption Key management
	4 th	7.5. Digital certificates 7.6. Key management 7.7. Memory Cards
13 th	1 st	7.6. Key management 7.7. Memory Cards
	2 nd	7.8. Implementing Identity Management 7.9. Controls and Autonomic System
	3 rd	8.1. Cloud Information security vendors
	4 th	8.2. Cloud Federation, characterization
14 th	1 st	8.3. Cloud Federation stack
	2 nd	8.4. Third Party Cloud service
	3 rd	8.5. Case study
	4 th	9.1. Introduction

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15 th	1 st	9.2. Data Source
	2 nd	9.2. Data Source
	3 rd	9.3. Data storage and Analysis
	4 th	9.4. Comparison with other system
DISCIPLINE : IT	SEMESTER: 6th	NAME OF THE TEACHING FACULTY: SASMITA PANIGRAHI
SUBJECT: ST	NO.OF DAYS/PER WEEK CLASS ALLOTTED:4	SEMESTER FROM DATE: 14/02/2023 TO DATE: 23/05/2023 NO.OF WEEKS:15
WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1 ST	1 ST	Introduction, Testing Process
	2 ND	What is s/w Testing, Purpose of testing
	3 RD	who should test,what to test
	4 TH	selection of good test case, Measurement of progress
2 ND	1 ST	Incremental testing approach
	2 ND	Basic terminology,Testing Life cycle
	3 RD	when to stop testing, Principle of testing
	4 TH	Limitation of testing, Availability of testingtool, techniques, metrics
3 RD	1 ST	Introduction,Verification and Validation
	2 ND	QA and QC, V&V Limitations
	3 RD	Categorising V&V techniques, Role of V&V in SDLC
	4 TH	Proof of correctness, Simulation & Prototyping, Requirement Tracing, s/w v&v planning
4 TH	1 ST	s/w testing review, Independent v&v contractor
	2 ND	positive &negative effect of v&v on projects, Standard for s/w test documentation
	3 RD	Introduction, BVA
	4 TH	BVA
5 TH	1 ST	Equivalence class testing
	2 ND	Equivalence class testing
	3 RD	Dicision Table based testing
	4 TH	Dicision Table based testing
6 TH	1 ST	Cause effect graphing technique
	2 ND	Cause effect graphing technique
	3 RD	Comparision of techniques
	4 TH	Comparision of techniques
7 TH	1 ST	Introduction, static vs. dynamic testing

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	2 ND	Static vs. dynamic testing
	3 RD	Static vs. dynamic testing
	4 TH	Static vs. dynamic testing
8 TH	1 ST	Dynamic WB testing techniques
	2 ND	Dynamic WB testing techniques
	3 RD	Mutation Testing vs. error seeding
	4 TH	Mutation Testing vs. error seeding
9 TH	1 ST	Comparison of BB and WB testing techniques
	2 ND	Comparison of WB testing techniques, advantages
	3 RD	Introduction, What is Gray Box Testing
	4 TH	What is Gray Box Testing
10 TH	1 ST	Difinitions of Gray Box Testing
	2 ND	Difinitions of Gray Box Testing
	3 RD	Comparison of WB, BB, GB
	4 TH	Comparison of WB, BB, GB
11 TH	1 ST	Prioritization Guidelines
	2 ND	Priority Category Schemes
	3 RD	Risk Analysis
	4 TH	Regression Testing
12 TH	1 ST	Prioritization of test cases for regression Testing
	2 ND	Regression Testing Techniques
	3 RD	Introduction, Unit, Integration, System, acceptance testing
	4 TH	Integration Tesing, classification,decomposition
13 TH	1 ST	Call graph, path based integration
	2 ND	Call graph, path based integration
	3 RD	System Testing
	4 TH	System Testing
14 TH	1 ST	Automated testing,Considerations during testing
	2 ND	Types of Testing Tools- static vs Dynamic, problems with manual Testing
	3 RD	Benefits of Automated Testing, Disadvantages of Automated testing
	4 TH	Skill needed for using automated tools
15 TH	1 ST	Test Automation
	2 ND	Debugging
	3 RD	Criteria for for selection of test tools
	4 TH	steps for tool selection
DISCIPLINE: IT	SEMESTER:6th	NAME OF THE TEACHING FACULTY: SMT

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		REETANJALI PANDA & SASMITA PANIGRAHI
SUBJECT: NS LAB	NO.OF DAYS/PER WEEK CLASS ALLOTTED:4	SEMESTER FROM DATE: 14/02/2023 TO DATE: 23/05/2023 NO.OF WEEKS:15
WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1 st	1 st	1. Installation and comparison of various anti virus software
	2 nd	1. Installation and comparison of various anti virus software
	3 rd	1. Installation and comparison of various anti virus software
	4 th	1. Installation and comparison of various anti virus software
2 nd	1 st	1. Installation and comparison of various anti virus software
	2 nd	1. Installation and comparison of various anti virus software
	3 rd	1. Installation and comparison of various anti virus software
	4 th	1. Installation and comparison of various anti virus software
3 rd	1 st	2. Installation and study of various parameters of firewall.
	2 nd	2. Installation and study of various parameters of firewall.
	3 rd	2. Installation and study of various parameters of firewall.
	4 th	2. Installation and study of various parameters of firewall.
4 th	1 st	2. Installation and study of various parameters of firewall.
	2 nd	2. Installation and study of various parameters of firewall.
	3 rd	2. Installation and study of various parameters of firewall.
	4 th	2. Installation and study of various parameters of firewall.
5 th	1 st	3. Writing program in C to Encrypt/Decrypt using XOR key.

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	2 nd	3. Writing program in C to Encrypt/Decrypt using XOR key.
	3 rd	3. Writing program in C to Encrypt/Decrypt using XOR key.
	4 th	3. Writing program in C to Encrypt/Decrypt using XOR key.
6 ^h	1 st	3. Writing program in C to Encrypt/Decrypt using XOR key.
	2 nd	3. Writing program in C to Encrypt/Decrypt using XOR key.
	3 rd	3. Writing program in C to Encrypt/Decrypt using XOR key.
	4 th	3. Writing program in C to Encrypt/Decrypt using XOR key.
7 th	1 st	3. Writing program in C to Encrypt/Decrypt using XOR key.
	2 nd	3. Writing program in C to Encrypt/Decrypt using XOR key.
	3 rd	3. Writing program in C to Encrypt/Decrypt using XOR key.
	4 th	3. Writing program in C to Encrypt/Decrypt using XOR key.
8 th	1 st	4. Study of VPN.
	2 nd	4. Study of VPN.
	3 rd	4. Study of VPN.
	4 th	4. Study of VPN.
9 th	1 st	4. Study of VPN.
	2 nd	4. Study of VPN.
	3 rd	4. Study of VPN.
	4 th	4. Study of VPN.
10 th	1 st	4. Study of VPN.
	2 nd	5. Study of various hacking tools.
	3 rd	5. Study of various hacking tools.
	4 th	5. Study of various hacking tools.
11 th	1 st	5. Study of various hacking tools.

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	2 nd	5. Study of various hacking tools.
	3 rd	5. Study of various hacking tools.
	4 th	5. Study of various hacking tools.
12 th	1 st	5. Study of various hacking tools.
	2 nd	5. Study of various hacking tools.
	3 rd	5. Study of various hacking tools.
	4 th	5. Study of various hacking tools.
13 th	1 st	5. Study of various hacking tools.
	2 nd	5. Study of various hacking tools.
	3 rd	6. Practical applications of digital signature
	4 th	6. Practical applications of digital signature
14 th	1 st	6. Practical applications of digital signature
	2 nd	6. Practical applications of digital signature
	3 rd	6. Practical applications of digital signature
	4 th	6. Practical applications of digital signature
15 th	1 st	6. Practical applications of digital signature
	2 nd	6. Practical applications of digital signature
	3 rd	6. Practical applications of digital signature
	4 th	6. Practical applications of digital signature
DISCIPLINE: IT	SEMESTER: 6th	NAME OF THE TEACHING FACULTY: SMT SUMITRA MAHAPATRA & NAYANA PATEL
SUBJECT:IOT LAB	NO.OF DAYS/PER WEEK CLASS ALLOTTED:4	SEMESTER FROM DATE: 14/02/2023 TO DATE: 23/05/2023 NO.OF WEEKS:15
WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS

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1 st	1 st	Basics of C language using Arduino IDE Understating basics of Arduino IDE
	2 nd	Basics of C language using Arduino IDE Understating basics of Arduino IDE
	3 rd	<ul style="list-style-type: none"> • Variables, datatype, loops, control statement, function
	4 th	<ul style="list-style-type: none"> • Variables, datatype, loops, control statement, function
2 nd	1 st	<ul style="list-style-type: none"> • Variables, datatype, loops, control statement, function
	2 nd	<ul style="list-style-type: none"> • Variables, datatype, loops, control statement, function
	3 rd	<ul style="list-style-type: none"> • Variables, datatype, loops, control statement, function
	4 th	<ul style="list-style-type: none"> • Variables, datatype, loops, control statement, function
3 rd	1 st	<ul style="list-style-type: none"> • Variables, datatype, loops, control statement, function
	2 nd	<ul style="list-style-type: none"> • Variables, datatype, loops, control statement, function
	3 rd	Practical using Arduino-interfacing sensors Interfacing Light Emitting Diode(LED)- Blinking LED
	4 th	Practical using Arduino-interfacing sensors Interfacing Light Emitting Diode(LED)- Blinking LED
4 th	1 st	Practical using Arduino-interfacing sensors Interfacing Light Emitting Diode(LED)- Blinking LED
	2 nd	Practical using Arduino-interfacing sensors Interfacing Light Emitting Diode(LED)- Blinking LED
	3 rd	Practical using Arduino-interfacing sensors Interfacing Light Emitting Diode(LED)- Blinking LED
	4 th	Practical using Arduino-interfacing sensors Interfacing Light Emitting Diode(LED)- Blinking LED
5 th	1 st	<ul style="list-style-type: none"> • Interfacing Button and LED – LED blinking when button is pressed
	2 nd	<ul style="list-style-type: none"> • Interfacing Button and LED – LED blinking when button is pressed

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	3 rd	<ul style="list-style-type: none"> • Interfacing Button and LED – LED blinking when button is pressed
	4 th	<ul style="list-style-type: none"> • Interfacing Button and LED – LED blinking when button is pressed
6 ^h	1 st	<ul style="list-style-type: none"> • Interfacing Button and LED – LED blinking when button is pressed
	2 nd	<ul style="list-style-type: none"> • Interfacing Button and LED – LED blinking when button is pressed
	3 rd	<ul style="list-style-type: none"> • Interfacing Light Dependent Resistor (LDR) and LED, displaying automatic
	4 th	<ul style="list-style-type: none"> • Interfacing Light Dependent Resistor (LDR) and LED, displaying automatic
7 th	1 st	<ul style="list-style-type: none"> • Interfacing Light Dependent Resistor (LDR) and LED, displaying automatic
	2 nd	<ul style="list-style-type: none"> • Interfacing Light Dependent Resistor (LDR) and LED, displaying automatic
	3 rd	<ul style="list-style-type: none"> • Interfacing Light Dependent Resistor (LDR) and LED, displaying automatic
	4 th	<ul style="list-style-type: none"> • Interfacing Light Dependent Resistor (LDR) and LED, displaying automatic
8 th	1 st	<ul style="list-style-type: none"> • Night lamp Interfacing Temperature Sensor(LM35) and/or humidity sensor (e.g.DHT11)
	2 nd	<ul style="list-style-type: none"> • Night lamp Interfacing Temperature Sensor(LM35) and/or humidity sensor (e.g.DHT11)
	3 rd	<ul style="list-style-type: none"> • Night lamp Interfacing Temperature Sensor(LM35) and/or humidity sensor (e.g.DHT11)
	4 th	<ul style="list-style-type: none"> • Night lamp Interfacing Temperature Sensor(LM35) and/or humidity sensor (e.g.DHT11)
9 th	1 st	<ul style="list-style-type: none"> • Night lamp Interfacing Temperature Sensor(LM35) and/or humidity sensor (e.g.DHT11)
	2 nd	<ul style="list-style-type: none"> • Night lamp Interfacing Temperature Sensor(LM35) and/or humidity sensor

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		(e.g.DHT11
	3 rd	• Interfacing Liquid Crystal Display(LCD) – display data generated by sensor
	4 th	• Interfacing Liquid Crystal Display(LCD) – display data generated by sensor
10 th	1 st	• Interfacing Liquid Crystal Display(LCD) – display data generated by sensor
	2 nd	• Interfacing Liquid Crystal Display(LCD) – display data generated by sensor
	3 rd	• Interfacing Liquid Crystal Display(LCD) – display data generated by sensor
	4 th	• Interfacing Liquid Crystal Display(LCD) – display data generated by sensor
11 th	1 st	• On LCD Interfacing Air Quality Sensor-pollution (e.g. MQ135) – display data on LCD
	2 nd	• On LCD Interfacing Air Quality Sensor-pollution (e.g. MQ135) – display data on LCD
	3 rd	• On LCD Interfacing Air Quality Sensor-pollution (e.g. MQ135) – display data on LCD
	4 th	• On LCD Interfacing Air Quality Sensor-pollution (e.g. MQ135) – display data on LCD
12 th	1 st	• On LCD Interfacing Air Quality Sensor-pollution (e.g. MQ135) – display data on LCD
	2 nd	• On LCD Interfacing Air Quality Sensor-pollution (e.g. MQ135) – display data on LCD
	3 rd	,• Switch on LED when data sensed is higher than specified value. Interfacing Bluetooth module (e.g. HC05)- receiving data from mobile phone
	4 th	,• Switch on LED when data sensed is higher than specified value. Interfacing Bluetooth module (e.g. HC05)- receiving data from mobile phone
13 th	1 st	,• Switch on LED when data sensed is

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		higher than specified value. Interfacing Bluetooth module (e.g. HC05)- receiving data from mobile phone
	2 nd	, • Switch on LED when data sensed is higher than specified value. Interfacing Bluetooth module (e.g. HC05)- receiving data from mobile phone
	3 rd	, • Switch on LED when data sensed is higher than specified value. Interfacing Bluetooth module (e.g. HC05)- receiving data from mobile phone
	4 th	, • Switch on LED when data sensed is higher than specified value. Interfacing Bluetooth module (e.g. HC05)- receiving data from mobile phone
14 th	1 st	, • Switch on LED when data sensed is higher than specified value. Interfacing Bluetooth module (e.g. HC05)- receiving data from mobile phone
	2 nd	• On Arduino and display on LCD Interfacing Relay module to demonstrate Bluetooth based home automation• application. (using Bluetooth and relay).
	3 rd	• On Arduino and display on LCD Interfacing Relay module to demonstrate Bluetooth based home automation• application. (using Bluetooth and relay).
	4 th	• On Arduino and display on LCD Interfacing Relay module to demonstrate Bluetooth based home automation• application. (using Bluetooth and relay).
15 th	1 st	• On Arduino and display on LCD Interfacing Relay module to demonstrate Bluetooth based home automation• application. (using Bluetooth and relay).
	2 nd	• On Arduino and display on LCD Interfacing Relay module to demonstrate Bluetooth based home automation• application. (using Bluetooth and relay).
	3 rd	• On Arduino and display on LCD Interfacing Relay module to demonstrate Bluetooth based home automation• application. (using Bluetooth and relay).

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	4 th	<ul style="list-style-type: none">• On Arduino and display on LCD Interfacing Relay module to demonstrate Bluetooth based home automation• application. (using Bluetooth and relay).
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