RajaRajeswari College of Engineering

(An Autonomous Institute, Affiliated Visvesvaraya Technological University, Belaga
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Dept. of Electronics and Communication Engineering &

5 DAYS student development programme for
"Introduction to Networking: Understanding the Basics and Protocols"
from 10th June 2024 to 14th June 2024

Date :. **10th June 2024 to 14th June 2024** **(From 8.30 am to 4.00Pm)**

Venue : Satyendra Bose Seminar Hall, ECE Dept.

Target Participants: 5th semester students [ECE]

Number of Students Participated: 116 students

Number of Faculty members involved: 3 MEMBERS

Organizing Committee:
Dr.R.Balakrishna, Principal

Dr. Rangaiah, HOD/ECE, RRCE

Name of the Recourse Persons::
Mr.P.Nagendra Prasad   Director- Think Company
 Mr.S.Mallikarjuna Reddy   Wipro Technologies
Mr.RamBabu.S   Mindtech Solutions

Name of the Faculty Co-ordinators:

Prof.Sreepathi V, Dept of ECE, RRCE

Dr.Deepika J , Dept of ECE, RRCE

Prof.Suresh M, Dept of ECE, RRCE

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SCHEDULE OF THE EVENT:

Day 1: Monday, 10th June 2024

Resource Person: Mr.P.Nagendra Prasad
Director- Think Company
Theme: Basics of Networking and OSI Model

Time	Topic	Activity
9:00AM - 9:30AM	Inauguration & Introduction to the Program	Opening Ceremony
9:30AM - 11:00AM	**Session 1:** Networking Basics	Lecture & Q&A
11:00AM - 11:15AM	**Tea Break**	
11:15AM - 12:45AM	**Session 2:** Types of Networks (LAN, WAN)	Lecture & Case Studies
12:45PM - 1:45PM	**Lunch Break**	
1:45PM - 3:15PM	**Session 3:** OSI Model and Layers	Hands-on Activity
3:15PM - 4:00PM	Q&A Session and Wrap-Up	Interactive Discussion

Day 2: Tuesday, 11th June 2024
Resource Person: Mr.P.Nagendra Prasad
Director- Think Company
Theme: TCP/IP Model and Networking Devices

Time	Topic	Activity
9:00AM - 11:00AM	**Session 1:** TCP/IP Model Overview	Lecture & Diagram Analysis
11:00 AM- 11:15AM	**Tea Break**	
11:15AM - 12:45PM	**Session 2:** Comparison of OSI & TCP/IP	Group Discussion
12:45PM - 1:45PM	**Lunch Break**	
1:45PM - 3:15PM	**Session 3:** Networking Devices (Router, Switch, Hub)	Hands-on Demo
3:15PM - 4:00PM	Practical Activity & Wrap-Up	Group Activity

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Day 3: Wednesday, 12th June 2024

Resource Person: Mr.S.Mallikarjuna Reddy
Wipro Technologies
Theme: IP Addressing and Subnetting

Time	Topic	Activity
9:00AM - 11:00AM	**Session 1:** Introduction to IP Addressing	Lecture & Examples
11:00 AM- 11:15AM	**Tea Break**	
11:15AM - 12:45PM	**Session 2:** IPv4 and IPv6 Overview	Group Exercise
12:45PM - 1:45PM	**Lunch Break**	
1:45PM - 3:15PM	**Session 3:** Subnetting Basics	Interactive Workshop
3:15PM - 4:00PM	Subnetting Exercises and Wrap-Up	Practice & Q&A

Day 4: Thursday, 13th June 2024
Resource Person: Mr.S.Mallikarjuna Reddy
Wipro Technologies
Theme: Introduction to Network Protocols

Time	Topic	Activity
9:00AM - 11:00AM	**Session 1:** Overview of Network Protocols (HTTP, FTP, DNS)	Lecture & Discussion
11:00 AM- 11:15AM	**Tea Break**	
11:15AM - 12:45PM	**Session 2:** HTTP and HTTPS	Case Study & Demo
12:45PM - 1:45PM	**Lunch Break**	
1:45PM - 3:15PM	**Session 3:** Introduction to DNS and FTP	Lab Exercise
3:15PM - 4:00PM	Group Discussion and Wrap-Up	Problem-Solving Activity

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Day 5: Friday, 14th June 2024
Resource Person:Mr.RamBabu.S
Mindtech Solutions
Theme: Practical Applications and Program Conclusion

Time	Topic	Activity
9:00AM - 11:00AM	**Session 1:** Network Configuration Basics	Lab Setup
11:00 AM- 11:15AM	**Tea Break**	
11:15AM - 12:45PM	**Session 2:** Troubleshooting Networking Issues	Practical Workshop
12:45PM - 1:45PM	**Lunch Break**	
1:45PM - 3:15PM	**Session 3:** Quiz & Feedback	Evaluation & Survey
3:15PM - 4:00PM	Closing Ceremony & Certificate Distribution	Closing Remarks

Outcome of the Program:

➢ **Understand Network Fundamentals**

By the end of the program, students will be able to explain the foundational concepts of computer networking, including the purpose and benefits of networked systems in various environments.

➢ **Identify Network Types and Topologies**

Students will be able to differentiate between various network types (LAN, WAN, PAN, etc.) and topologies (star, ring, mesh, etc.), and identify the appropriate use cases for each.

➢ **Explain OSI and TCP/IP Models**

Students will gain a clear understanding of the OSI (Open Systems Interconnection) and TCP/IP (Transmission Control Protocol/Internet Protocol) models, along with the functionality of each layer within these models.

➢ **Describe Key Networking Protocols**

Students will be familiar with key networking protocols, including IP, TCP, UDP, HTTP, and FTP, understanding their role and importance in facilitating data transmission over networks.

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➢ **Configure Basic Network Components**

By the program's conclusion, students will have practical knowledge in setting up basic network components such as routers, switches, and wireless access points, as well as configuring IP addresses and subnet masks.

➢ **Implement Basic Troubleshooting Techniques**

Students will be equipped with basic troubleshooting skills for identifying and resolving common network connectivity issues, utilizing tools like ping, traceroute, and basic diagnostic commands.

➢ **Understand Network Security Essentials**

Students will gain awareness of fundamental network security principles, including firewalls, encryption, and secure protocols, and recognize the importance of maintaining network security to prevent unauthorized access.

➢ **Apply Networking Knowledge to Practical Scenarios**

Through interactive exercises and scenarios, students will demonstrate the ability to apply networking concepts to solve basic real-world network challenges and enhance system connectivity.

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