



DR. V.R.K WOMEN'S COLLEGE OF ENGINEERING AND TECHNOLOGY

Approved by AICTE & Permitted by Government of Telangana State
Affiliated to Jawaharlal Nehru Technological University Hyderabad

Aziznagar (V), Moinsabad (M), R.R. Dist. 500 075 - T.S.

Contact No. 7893044962 / 08413235962

Website : www.dvrkwomenscollege.com

INDEX

**Academic Year (2022-23) Institutional Programme Brochure /Notice
for Certificate / Value added Programs with Course Modules and
Outcomes below mentioned Add-on Programs**

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ABOUT DR. V.R.K. WOMEN'S COLLEGE OF ENGINEERING & TECHNOLOGY

The dawn of globalization, liberalization and privatization in India gave impetus not just to the much needed economy but also to technical education. India can now boast of having the third largest pool of scientific and technical manpower in the world. The network of technical institutions which now span the country came into being in the 1990's. At present India is a leading force to reckon with in the fields of Software industry, Space science, Biotechnology, Nuclear science.

DR. V.R.K. Women's College of Engineering and Technology (VRKW) we keep that light of the nation ablaze. The institution, ever since its foundation in 2002 is in the constant pursuit of keeping high the self imposed standards of excellence. Quality, Modernity and High Degree of Scientific Temperament pervade every facet of the institution, be it technical education, laboratories or infrastructure facilities. The campus is the abode of discipline, harmony and intellectual pursuit and a buzz with intense academic activity.

Highly qualified fraternity, sprawling campus, state-of-the-art laboratories, well equipped library, spacious playground and above all ever enthusiastic management make DR. V.R.K. Women's College of Engineering And Technology (VRKW)

ABOUT COMPUTER SCIENCE AND ENGINEERING

The department has been rated very high in academic Circles. The graduates from this department include many renowned technocrats, researchers and academicians working all over the world. The department provides a platform for the faculty and students of engineering colleges in the country to pursue their interest in basic and applied research. The department conducts various conferences, seminars and workshops on frontier areas of research in technical institution in India

CHIEF PATRON

Mr. Mohd. Shah Alam Rasool Khan,
Chairman-DR. V.R.K Educational
Society

PATRON

Dr.B.Sasi Kumar
Principal

CONVENER

Dr.G.KALAIMANI
Professor & HOD CSE Dept.

CO-ORDINATOR

Dr.Jothi Kumar
Professor/CSE Dept.

NO REGISTRATION FEE

THREE WEEKS

**ADD-ON PROGRAMME
FOR THE STUDENTS
of**

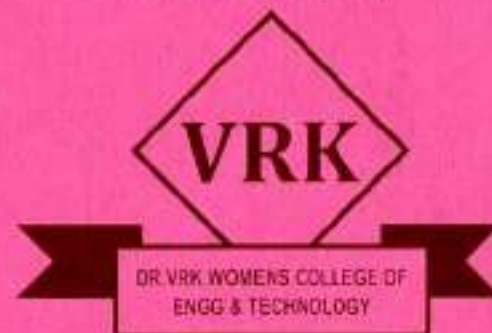
Department of Computer Science and Engineering

ON

Advanced App Development

01-11-22 to 24-11-2022

(03:30PM to 05:30PM)



Organized by

Department of
Computer Science & Engineering

**DR. V.R.K. Women's College of Engineering &
Technology**

(Affiliated to JNTUH & Approved by AICTE, New Delhi)

Aziz Nagar, Moynabad, Ranga Reddy District - 75,

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Contact No. 7893044962 / 08413235962

Website : www.drvrkwomenscollege.com

Date:28-10-22

Department of Computer Science and Engineering

Circular

All the students of II-B.Tech (CSE) are informed that Department of Computer Science and Engineering is proposed to conduct an **ADD-ON PROGRAM** on “ **Advanced App Development**” from 01-11-22 to 24-11-22 (Monday to Saturday - 3:30 PM to 5:30 PM). The interested students are informed to enroll their names to, Program Coordinator on or before 31-10-22.

To

All the students of CSE (B.Tech)

Dr.Jothi Kumar, Professor in CSE, Program coordinator

Copy to:

1. The Principal
2. IQAC,
3. Department Notice Board



[Signature]
HOD
CSE DEPARTMENT

HEAD OF THE DEPARTMENT
COMPUTER SCIENCE & ENGINEERING
DR. VRK WOMEN'S COLLEGE OF
ENGINEERING & TECHNOLOGY

[Signature]



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22-10-2022

Department of Computer Science and Engineering

ADD-ON PROGRAM

ON

Advanced App Development (APPD01)

Curriculum and Syllabus

01-11-22to 24-11-2022

Total Hours: 40 Hrs

PROGRAMME OBJECTIVES:

- This course introduces participants to App Development tools and best practices for deploying, evaluating, monitoring and operating production.
- App Development is a discipline focused on the deployment, testing, monitoring, and automation.
- Machine Learning Engineering professionals use tools for continuous improvement and evaluation of deployed models

PROGRAMME OUTCOMES: At the end of the course participants will be able to:

- Build upon the Cloud computing and data engineering concepts
- Apply Machine Learning Engineering to real-world projects
- You will dive into emerging topics in Machine Learning including App Development

This course introduces participants to App Development tools and best practices for deploying, evaluating, monitoring and operating production ML systems on Cloud. App Development is focused on the deployment, testing, monitoring, and automation of ML systems.

Module :1 Fundamentals of Mobile & Web Application Development

Basics of Web And Mobile application Development, Native App
Hybrid App, Cross Platform

Module :2 Native App Development Using Java, Native Web App,Benefits of Native App
Scenarios to create Native App

Module: 3 Hybrid App Development, Hybrid web App, Benefits of Web App
Criteria of Creating Native App.

Module: 4 Cross-Platform App Development Using React-Native, What is Cross-Platform App
Benefits of Cross-Platform, Criteria for Creating Cross-platform.

Module: 5 Non-Functional Characteristics Of App Frame works,Comparison of different App
Frameworks, Build Performance, App Performance, Debugging Capabilities.




PROGRAM COORDINATOR

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Chairman-DR. V.R.K Educational
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PATRON

Dr.B.SASI KUMAR
Principal

CONVENER

Dr. G. KALAIMANI
Professor & HOD/CSE Dept.

CO-ORDINATOR

Dr. G. KALAIMANI
Professor/CSE Dept.

NO REGISTRATION FEE

THREE WEEKS

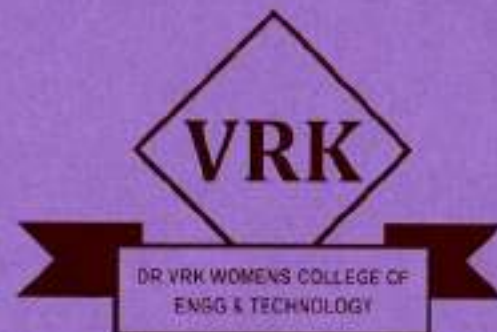
ADD-ON PROGRAMME FOR THE STUDENTS

of

Department of Computer Science and Engineering

ON

WEB APPLICATION AND SECURITY
01-11-22 to 24-11-2022
(03:30PM to 05:30PM)



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Date:28-10-22

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Circular

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To

All the students of CSE (B.Tech)

Mrs.Ameena Hira, Assistant Professor in CSE, Program coordinator

Copy to:

1. The Principal
2. IQAC.
3. Department Notice Board



C. Kalpagam
HOD
CSE DEPARTMENT

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22-10-2022

Department of Computer Science and Engineering

ADD-ON PROGRAM

ON

WEB APPLICATION SECURITY (WEBA02)

Curriculum and Syllabus

01-11-22 to 24-11-2022

Total Hours: 40 Hrs

PROGRAMME OBJECTIVES:

To impart the fundamental aspects and principles of mixed reality technologies.

- To know the internals of the hardware and software components involved in the development of mixed reality enabled applications.
- To learn about the graphical processing units and their architectures.
- To gain knowledge about mixed reality application development.
- To know the technologies involved in the development of mixed reality based applications

PROGRAMME OUTCOMES: At the end of the course participants will be able to:

- 1: Demonstrate the understanding of the basic concepts of Mixed reality
- 2: Use the tools and technologies related to Mixed Reality
- 3: Develop the Virtual Reality applications in different domains
- 4: Design of various models using modeling techniques

Module I INTRODUCTION

Introduction to Virtual Reality and Mixed Reality – Definition – Introduction to Trajectories and Hybrid Space-Three I's of Virtual Reality – Virtual Reality Vs 3D Computer Graphics – Benefits of Virtual Reality – Components of VR System.

Module 2 MR COMPUTING ARCHITECTURE

Computing Architectures of VR – Rendering Principle – Graphics and Haptics Rendering – PC Graphics Architecture – Graphics Accelerators – Graphics Benchmarks – SGI Infinite Reality Architecture – Distributed VR Architectures Distributed Virtual Environments-MR architecture.

Module 3 MR MODELING

Modeling – Geometric Modeling – Virtual Object Shape – Object Visual Appearance – Kinematics Modeling – Collision Detection – Surface Deformation – Force Smoothing and Mapping.

Module IV PROGRAMMING AND APPLICATIONS

VR Programming – Toolkits and Scene Graphs – World ToolKit – Java 3D – Comparison of World ToolKit and Java 3D – GHOST – People Shop – Human Factors in VR

Module V MIXED REALITY TECHNOLOGIES

Synchronizing Time – Tangible Interaction – Vision Based Tracking – Sensing Technologies – Seamless Design – Assembling Interaction – Wearable Computing – Games



PROGRAM COORDINATOR

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PATRON

Dr.B.SASI KUMAR
Principal

CONVENER

Dr.G.KALAIMANI
Professor & HOD/CSE Dept.

CO-ORDINATOR

Dr.L.C.MANIKANDAN
Professor/CSE Dept.

NO REGISTRATION FEE

THREE WEEKS

**ADD-ON PROGRAMME
FOR THE STUDENTS
of**

Department of Computer Science and Engineering

ON

STORAGE TECHNOLOGIES

1-11-22 to 24-11-2022
(03:30PM to 05:30PM)



Organized by

Department of

COMPUTER SCIENCE AND ENGINEERING

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Date:27.10.2022

Department of Computer Science and Engineering

Circular

All the students of IV-B.Tech (CSE) are informed that Department of Computer Science and Engineering is proposed to conduct an **ADD-ON PROGRAM** on "STORAGE TECHNOLOGIES" from 1-11-22 to 24-11-22 (Monday to Saturday - 3:30 PM to 5:30 PM). The interested students are informed to enroll their names to Dr.L.C.Manikandan, Program Coordinator on or before 1-11-22.

To

All the students of CSE (B.Tech)

Dr. L.C.Manikandan, Professor in CSE, Program coordinator

Copy to:

1. The Principal
2. IQAC.
3. Department Notice Board

DR. V.R.K WOMEN'S COLLEGE
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21-10-2022

Department of Computer Science and Engineering

ADD-ON PROGRAM

ON

STORAGE TECHNOLOGIES (STOR03)

Curriculum and Syllabus

1-11-22 to 24-11-2022

Total Hours: 40 HRs

PROGRAMME OBJECTIVES:

- Characterize the functionalities of logical and physical components of storage
- Describe various storage networking technologies
- Identify different storage virtualization technologies
- Discuss the different backup and recovery strategies
- Understand common storage management activities and solutions

PROGRAMME OUTCOMES: At the end of the course participants will be able to:

- 1: Demonstrate the fundamentals of information storage management and various models of Cloud infrastructure services and deployment
- 2: Illustrate the usage of advanced intelligent storage systems and RAID
- 3: Interpret various storage networking architectures - SAN, including storage subsystems and virtualization
- 4: Examine the different role in providing disaster recovery and remote replication technologies

Module1 :Introduction to Information Storage: Digital data and its types, Information storage, Key characteristics of data center and Evolution of computing platforms. Information Lifecycle Management. Third Platform Technologies: Cloud computing and its essential characteristics, Cloud services and cloud deployment models, Big data analytics, Social networking and mobile computing, Characteristics of third platform infrastructure and Imperatives for third platform transformation. Data Center Environment: Building blocks of a data center, Compute systems and compute virtualization and Software-defined data center.

Module 2:Block-Based Storage System, File-Based Storage System, Object-Based and Unified Storage. Fibre Channel SAN: Software-defined networking, FC SAN components and architecture, FC SAN topologies, link aggregation, and zoning, Virtualization in FC SAN environment. Internet Protocol SAN: iSCSI protocol, network components, and connectivity, Link aggregation, switch aggregation, and VLAN, FCIP protocol, connectivity, and configuration. Fibre Channel over Ethernet SAN: Components of FCoE SAN, FCoE SAN cone

Module 3: Information security goals, Storage security domains, Threats to a storage infrastructure, Security controls to protect a storage infrastructure, Governance, risk, and compliance, Storage infrastructure management functions, Storage infrastructure management processes.



PROGRAM COORDINATOR

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Chairman-DR. V.R.K Educational
Society

PATRON

Dr.B.SASHI KUMAR
Principal

CONVENER

Dr.G.KALAIMANI
Professor & HOD/CSE Dept.

CO-ORDINATOR

Dr.Shaik Shakeer Basha
Professor/CSE Dept.

NO REGISTRATION FEE

THREE WEEKS

**ADD-ON PROGRAMME
FOR THE STUDENTS
of**

Department of Computer Science and Engineering

ON

Security and Privacy in Cloud
01-12-2022 to 23-12-2022

(03:30PM to 05:30PM)



Organized by

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Computer Science and Engineering

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| COUNSELING CODE | |
|-----------------|------|
| EAMCET | VRKW |
| ECET | VRKW |
| PGEET | VRKW |

Date:28.11.2022

Department of Computer Science and Engineering

Circular

All the students of II-B.Tech (CSE) are informed that Department of Computer Science and Engineering is proposed to conduct an **ADD-ON PROGRAM** on "**SECURITY & PRIVACY IN CLOUDS**" from 01-12-2022 to 23-12-2022 (Monday to Saturday - 3:30 PM to 5:30 PM). The interested students are informed to enroll their names to Dr.Shaik Shakeer Basha, Program Coordinator on or before 01-12-2022.

To

All the students of CSE (B.Tech)

Dr.Shaik Shakeer Basha, Professor in CSE, Program coordinator

Copy to:

1. The Principal
2. IQAC.
3. Department Notice Board



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24-11-2022

Department of Computer Science and Engineering
ADD-ON PROGRAM
ON
Security and Privacy in Clouds (SEPR04)
Curriculum and Syllabus
01-12-2022 to 23-12-2022

Total Hours: 38 HRs

PROGRAM OBJECTIVES:

- To Introduce Cloud Computing terminology, definition & concepts
- To understand the security design and architectural considerations for Cloud
- To understand the Identity, Access control in Cloud
- To follow best practices for Cloud security using various designs patterns
- To be able to monitor and audit cloud applications for security

PROGRAM OUTCOMES:

- Understand the cloud concepts and fundamentals.
- Explain the security challenges in the cloud.
- Define cloud policy and Identity and Access Management.
- Understand various risks and audit and monitoring mechanisms in the cloud.
- s Define the various architectural and design considerations for security in the cloud

UNIT I FUNDAMENTALS OF CLOUD SECURITY CONCEPTS Overview of cloud security- Security Services, Basic of cryptography - Conventional and public-key cryptography, hash functions, authentication, and digital signatures.

UNIT II SECURITY DESIGN AND ARCHITECTURE FOR CLOUD Security design principles for Cloud Computing, Network and Storage, Data Protection strategies; Data retention, deletion and archiving procedures for tenant data, Encryption, Data Redaction, Tokenization, Obfuscation, PKI and Key

UNIT III ACCESS CONTROL AND IDENTITY MANAGEMENT 6 Access control requirements for Cloud infrastructure, Roles-based Access Control - Multi-factor authentication,, Identity Federation - Identity providers and service consumers - Storage and network access control options

UNIT IV CLOUD SECURITY DESIGN PATTERNS 6 Introduction to Design Patterns, Cloud bursting, Geo-tagging, Secure Cloud Interfaces, Cloud Resource Access Control, Secure On-Premise Internet Access, Secure External Cloud

UNIT V MONITORING, AUDITING AND MANAGEMENT 5 Proactive activity monitoring Events and alerts, Reporting and Management, Tamper-proofing audit logs, Quality of Services, Secure Management, User management, Identity management, Security Information and Event Management

PROGRAM COORDINATOR



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Dr.G.KALAIMANI
Professor & HOD-CSE Dept.

CO-ORDINATOR

Dr.G.Kalaimani
Professor/CSE Dept.

NO REGISTRATION FEE

THREE WEEKS

**ADD-ON PROGRAMME
FOR THE STUDENTS
of**

Department of Computer Science and Engineering

ON

Marketing and Social Media Web Analytics

07-11-22 to 25-11-2022
(03:30PM to 05:30PM)



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Department of Computer Science and Engineering

Circular

All the students of I&II-M.Tech (CSE) are informed that Department of Computer Science and Engineering is proposed to conduct an **ADD-ON PROGRAM** on "Marketing and Social Media Web Analytics" from 07-11-22 to 25-11-22 (Monday to Saturday - 3:30 PM to 5:30 PM). The interested students are informed to enroll their names to Dr.G.Kalaimani, Program Coordinator on or before 31-10-22.

To

All the students of CSE (M.Tech)

Dr.G.Kalaimani, Professor in CSE, Program coordinator

Copy to:

1. The Principal
2. IQAC.
3. Department Notice Board




HOD
CSE DEPARTMENT
HEAD OF THE DEPARTMENT
COMPUTER SCIENCE & ENGINEERING
DR. VRK WOMEN'S COLLEGE OF
ENGINEERING & TECHNOLOGY



Dr. VRK WOMEN'S COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE & Permitted by Government of Telangana State
Affiliated to J.N.T.U, Hyderabad.
Aziznagar (V), Moinabad (M), R.R. Dist: 500 075 - T.S.
Contact No. 7893044962 / 08413235962

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| ECET | VRKW |
| PGETET | VRKW |

22-10-2022

Department of Computer Science and Engineering ADD-ON PROGRAM

ON

Marketing and Social Media Web Analytics (MAKS05) Curriculum and Syllabus

07-11-22 to 25-11-2022

Total Hours: 34 Hrs

PROGRAMME OBJECTIVES:

- To showcase the opportunities that exist today to leverage the power of the marketing, web and social media

PROGRAMME OUTCOMES: At the end of the course participants will be able to:

- This course will provide with an introduction to marketing analytics.
- To show the benefits of using a systematic and analytical approach to marketing decision-making.
- To help students develop analytic competencies pertaining solving of marketing problems
- The learners will understand social media, web and social media analytics and their potential impact

UNIT I MARKETING ANALYTICS Introduction to Marketing Analytics-Marketing Budget and Marketing Performance Measure, Marketing Metrics and its application- Financial Implications of various Marketing Strategies- Geographical Mapping, Data Exploration, Market Basket Analysis.

UNIT II - COMMUNITY BUILDING AND MANAGEMENT History and Evolution of Social Media-Understanding Science of Social Media -Goals for using Social Media- Social Media Audience and Influencers-Social theory and social media - technological determinism-Keys to Community Building - Promoting Social Media Pages- Linking Social Media Accounts.

UNIT III SOCIAL MEDIA POLICIES AND MEASUREMENTS Social Media Policies-Etiquette, Privacy-ethical problems posed by emerging social media technologies - The road ahead in social media- The Basics of Tracking Social Media - social media analytics- Insights Gained From Social Media-Customized Campaign Performance Reports - Observations of social media use.

UNIT IV - WEB ANALYTICS Web Analytics - Present and Future, Data Collection - Importance and Options, Overview of Qualitative Analysis, Business Analysis, KPI and Planning, Critical Components of a Successful Web Analytics Strategy, Web Analytics Fundamentals, Concepts, Proposals & Reports, Web Data Analysis.



(Signature)
PROGRAM COORDINATOR

ABOUT DR. V.R.K. WOMEN'S COLLEGE OF ENGINEERING & TECHNOLOGY

The dawn of globalization, liberalization and privatization in India gave impetus not just to the much needed economy but also to technical education. India can now boast of having the third largest pool of scientific and technical manpower in the world. The network of technical institutions which now span the country came into being in the 1990's. At present India is a leading force to reckon with in the fields of Software industry, Space science, Biotechnology, Nuclear science.

DR. V.R.K. Women's College of Engineering and Technology (VRKW) we keep that light of the nation ablaze. The institution, ever since its foundation in 2002 is in the constant pursuit of keeping high the self imposed standards of excellence. Quality, Modernity and High Degree of Scientific Temperament pervade every facet of the institution, be it technical education, laboratories or infrastructure facilities. The campus is the abode of discipline, harmony and intellectual pursuit and a buzz with intense academic activity.

Highly qualified fraternity, sprawling campus, state-of-the-art laboratories, well equipped library, spacious playground and above all ever enthusiastic management make DR. V.R.K. Women's College of Engineering And Technology (VRKW)

ABOUT COMPUTER SCIENCE AND ENGINEERING

The department has been rated very high in academic Circles. The graduates from this department include many renowned technocrats, researchers and academicians working all over the world. The department provides a platform for the faculty and students of engineering colleges in the country to pursue their interest in basic and applied research. The department conducts various conferences, seminars and workshops on frontier areas of research in technical institution in India.

CHIEF PATRON

Mr. Mohd. Shah Alam Rasool Khan,
Chairman-DR. V.R.K Educational
Society

PATRON

Dr.B.Sasi Kumar
Principal

CONVENER

Dr.G.KALAIMANI
Professor & HOD/CSE Dept.

CO-ORDINATOR

Dr.Seshatheri
Professor/CSE Dept.

NO REGISTRATION FEE

THREE WEEKS

ADD-ON PROGRAMME FOR THE STUDENTS

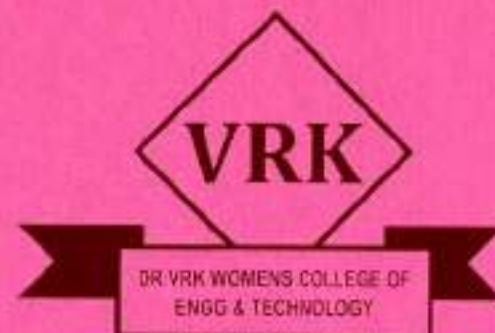
of

Department of Computer Science and Engineering

ON

MULTIMEDIA AND ANIMATION

02-05-2023 TO 25-05-2023
(03:30PM to 05:30PM)



Organized by

Department of
Computer Science & Engineering

**DR. V.R.K. Women's College of Engineering &
Technology**

(Affiliated to JNTUH & Approved by AICTE, New Delhi)

Aziz Nagar, Moinabad, Ranga Reddy District - 75,
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<http://www.drvrkwomenscollege.com>



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Contact No. 7893044962 / 08413235962

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|-----------------|------|
| EAMCET | VRKW |
| ECET | VRKW |
| PGEET | VRKW |

Date:24-04-23

Department of Computer Science and Engineering

Circular

All the students of III-B.Tech (CSE) are informed that Department of Computer Science and Engineering is proposed to conduct an **ADD-ON PROGRAM** on "MULTIMEDIA AND ANIMATION" from 02-05-23 to 25-05-23 (Monday to Saturday - 3:30 PM to 5:30 PM). The interested students are informed to enroll their names to Dr.Seshatheri, Program Coordinator on or before 30-04-23.

To

All the students of CSE (B.Tech)
Dr.Seshatheri, Professor in CSE, Program coordinator

Copy to:

1. The Principal
2. IQAC.
3. Department Notice Board



G. Lalaj
HOD
CSE DEPARTMENT

HEAD OF THE DEPARTMENT
COMPUTER SCIENCE & ENGINEERING
DR. VRK WOMEN'S COLLEGE OF
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| ECET | VRKW |
| PGET | VRKW |

21-04-2023

Department of Computer Science and Engineering
ADD-ON PROGRAM
ON
MULTIMEDIA DND ANIMATION (MULA06)
Curriculum and Syllabus

02-05-2023 to 25-05-2023

Total Hours: 38 Hrs

PROGRAMME OBJECTIVES: Characterize the functionalities of logical and physical components of storage

- Describe various storage networking technologies
- Identify different storage virtualization technologies
- Discuss the different backup and recovery strategies
- Understand common storage management activities and solutions

PROGRAMME OUTCOMES: At the end of the course participants will be able to:

- 1: Demonstrate the fundamentals of information storage management and various models of Cloud infrastructure services and deployment
- 2: Illustrate the usage of advanced intelligent storage systems and RAID
- 3: Interpret various storage networking architectures - SAN, including storage subsystems and virtualization
- 4: Examine the different role in providing disaster recovery and remote replication technologies
- 5: Infer the security needs and security measures to be employed in information storage management.

Module 1: Introduction to Sound forge – Working layout Panel – digitizing sound – sound editing concept – toolbar using - status bar, data window using, workspace working methods -view options. Importing sound clips and music –recording using, previous a file selecting data and positioning cursor basic editing – using markers – regions and commands, editing with playlist

Module: 2: Introduction to flash-Working with Document working with templates, drawing tools, timeline effects using, editing options, working with layers, modifying symbols, modifying symbols, frames and key frames using. Drawing tool using-time line effect using – editing option, frames and key frames using, testing movies, animating movies symbols, using runtime bitmap caching option, working

Module: 3 Introduction to Animation -History of Animation-Types of Animation - Basic Principles of Animation-Animator's Drawing Tools - Rapid Sketching & Drawing - Developing Animation Character. 3D Animation- Essentials & qualities of good animation characters- Three dimensional drawings of characters- Types of 3D Animation – Skeleton & Kinetic 3D Animation – Texturing & Lighting of 3D Animation – 3D Camera Tracking




PROGRAM COORDINATOR

ABOUT DR. V.R.K. WOMEN'S COLLEGE OF ENGINEERING & TECHNOLOGY

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ABOUT COMPUTER SCIENCE AND ENGINEERING

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CHIEF PATRON

Mr. Mohd. Shah Alam Rasool Khan,
Chairman-DR. V.R.K Educational
Society

PATRON

Dr.B.SASI KUMAR
PRINCIPAL

CONVENER

DR.G.KALAIMANI
Professor & HOD CSE Dept.

CO-ORDINATOR

Mrs.Ameena Hira
Assistant Professor/CSE Dept.

NO REGISTRATION FEE

THREE WEEKS

ADD-ON PROGRAMME FOR THE STUDENTS

of
Department of Computer Science and Engineering

ON

VIDEO CREATION AND EDITING

17-04-2023 TO 12-05-2023
(03:30PM to 05:30PM)



Organized by

Department of
Computer Science & Engineering

**DR. V.R.K. Women's College of Engineering &
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| ECET | VRKW |
| PGEET | VRKW |

Date:09-04-23

Department of Computer Science and Engineering

Circular

All the students of IV-B.Tech (CSE) are informed that Department of Computer Science and Engineering is proposed to conduct an **ADD-ON PROGRAM** on "VIDEO CREATION AND EDITING" from 14-04-2023 to 12-05-2023 (Monday to Saturday - 3:30 PM to 5:30 PM). The interested students are informed to enroll their names to Mrs.Ameena Hira, Program Coordinator on or before 12-04-2023.

To

All the students of CSE (B.Tech)

Mrs.Ameena Hira, Assistant Professor in CSE, Program coordinator

Copy to:

1. The Principal
2. IQAC.
3. Department Notice Board

G. Yadav
HEAD OF THE DEPARTMENT
COMPUTER SCIENCE AND ENGINEERING
DR. VRK WOMEN'S COLLEGE OF ENGINEERING & TECHNOLOGY
HOD, CSE DEPARTMENT
CSE DEPARTMENT





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| ECET | VRKW |
| PGECET | VRKW |

12-04-2023

Department of Computer Science and Engineering ADD-ON PROGRAM

ON

VIDEO CREATION AND EDITING (VICE07)

Curriculum and Syllabus

17-04-2023 TO 12-05-2023

Total Hours: 36 Hrs

COURSE OBJECTIVES:

1. Understand the techniques of image reproduction
2. Understand the techniques of Charged Coupled Device
3. Understand the techniques of camera lens controls
4. Understand the techniques of horizontal phase and sub-carrier phase
5. Understand the basic principles video and audio recording
6. Understand the techniques of TV transmission

COURSE OUTCOMES:

- 1.A student might have good theoretical knowledge in videography and should know the difference between the video camera and film camera.
- 2.They should know the different functions of a video camera.
- 3.The students should have adequate knowledge in videography, so that they can operate the camera in different situations individually.

UNIT 1

Reproduction of image : Cathode Ray Tube (monochrome and colour) Liquid Crystal Display (LCD), professional studio monitor and its controls, High Definition Television (HDTV)
ii)Charged Coupled Device (CCD): Interline Transfer (IT), Frame Transfer (FT) Frame Interline Transfer (FIT) Hole Accumulation Diode (HAD) Sensor, Application of electronic shutter to CCD image sensor.

UNIT 2

i)Camera Lens Controls: Focus, auto/manual, zoom servo/manual, iris auto/manual, built in filters (day light, artificial light, neutral density), MTF curve. ii)Electronic viewfinder controls: Monochrome, colour, LCD, brightness, contrast, peaking or details, etc., zebra, spot L, Back L.

UNIT 3

Video and audio recording. A.V.T.R. (Betacam and other digital recorders) B .Camcorder. (Betacam and other digital camcorders) C. Video tape and recording formats. Television studio operations a. On line recording with multiple camera set up. b. Control units for camera and audio. c.Panels. d. Light controls.

UNIT 4

Video editing. a.Linear (insert and assemble modes) b.Editing equipment : Edit VTR, Edit Control Unit, Vision Mixer, c.Computer Graphics (C.G.) etc. d.Non-linear e.Recording of audio (commentary, dubbing, music). f. Effects on video and audio)



[Signature]
PROGRAM COORDINATOR

ABOUT DR. V.R.K. WOMEN'S COLLEGE OF ENGINEERING & TECHNOLOGY

The dawn of globalization, liberalization and privatization in India gave impetus not just to the much needed economy but also to technical education. India can now boast of having the third largest pool of scientific and technical manpower in the world. The network of technical institutions which now span the country came into being in the 1990's. At present India is a leading force to reckon with in the fields of Software industry, Space science, Biotechnology, Nuclear science.

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ABOUT ELECTRONICS AND COMMUNICATION ENGINEERING

The department has been rated very high in academic Circles. The graduates from this department include many renowned technocrats, researchers and academicians working all over the world. The department provides a platform for the faculty and students of engineering colleges in the country to pursue their interest in basic and applied research. The department conducts various conferences, seminars and workshops on frontier areas of research in technical institution in India

CHIEF PATRON

Mr. Mohd. Shah Alam Rasool Khan,
Chairman-DR. V.R.K Educational
Society

PATRON

Dr.B.Sasi Kumar
Principal

CONVENER

Dr.SHAIK SAIDULU
Professor & HOD ECE Dept.

CO-ORDINATOR

Dr. Shaik Saidulu,
Professor/ECE Dept.

NO REGISTRATION FEE

THREE WEEKS

ADD-ON PROGRAMME FOR THE STUDENTS

of
Department of Electronics and Communication
Engineering

ON

Electronics System Design (ECE004)

07-11-2022 to 25-11-2022
(03:30PM to 05:30PM)



Organized by

Department of
Electronics and Communication Engineering

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Aziz Nagar, Moinabad, Ranga Reddy District - 75,
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| ECET | VRKW |
| PGCET | VRKW |

Date:02-11-2022

Department of Electronics and Communication Engineering

Circular

All the students of B.Tech (ECE) are informed that Department of Electronics and communication Engineering is proposed to conduct an **ADD-ON PROGRAM** on " **Electronics System Design**" from 07-11-2022 to 25-11-2022 (Monday to Saturday - 3:30 PM to 5:30 PM). The interested students are informed to enroll their names to Dr. Shaik Saidulu, Program Coordinator on or before 01-11-2022.

To

All the students of ECE (B.Tech)

Dr. Shaik Saidulu, Professor in ECE, Program coordinator

Copy to:

1. The Principal
2. IQAC.
3. Department Notice Board

HOD
ECE DEPARTMENT



HEAD OF THE DEPARTMENT
ELECTRONICS & COMMUNICATION & ENGINEERING
DR. VRK WOMEN'S COLLEGE OF
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| ECET | VRKW |
| PGEET | VRKW |

06-04-2023

Department of Electronics and Communication Engineering
ADD-ON PROGRAM
ON
Electronics System Design(ECE005)
Curriculum and Syllabus
17-04-2023 to 12-05-2023

Total Hours: 36 Hrs

PROGRAMME OBJECTIVES:

This course imparts basic knowledge in circuit design and provides hands-on experience in using Multisim Software.

PROGRAMME OUTCOMES: At the end of this course, the student will be able to:

Do basic Electronic circuit designs, and develop capability to do mini projects Apply practical knowledge to a range of standard Basic electronic subsystems ,Design and analyse the behavior of standard Basic electronic subsystems

Module :1 Introduction to multisim software and basic electronic system design, Design of an Instrumentation Amplifier.

Module :2 Design of Voltage Regulator Using SCR, Design of Flashing LEDs, Design of simple alarm using Multisim.

Module: 3 Design of op amp filters - low pass and high pass, Frequency Response of the Basic Op Amp Circuit using Multisim , Design of automatic light switch circuit using multisim.

Module: 4 Design of logic gates, Design of logic gates using transistor, design of sequence detector, Digital display using asynchronous counter, Design of water level indicator.

Module: 5 Simple applications, Process control timer, 4 way traffic light controller, Design of simple UPS




PROGRAM COORDINATOR

ABOUT DR. V.R.K. WOMEN'S COLLEGE OF ENGINEERING & TECHNOLOGY

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ABOUT ELECTRICAL AND ELECTRONICS ENGINEERING

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CHIEF PATRON

Mr. Mohd. Shah Alam Rasool Khan,
Chairman-DR, V.R.K Educational
Society

PATRON

Dr.B.Sasi Kumar
Principal

CONVENER

Dr.Prema Latha
Professor & HOD EEE Dept.

CO-ORDINATOR

Mr.Shaik Nagur Basha,
Assistant Professor, EEE Dept.

NO REGISTRATION FEE

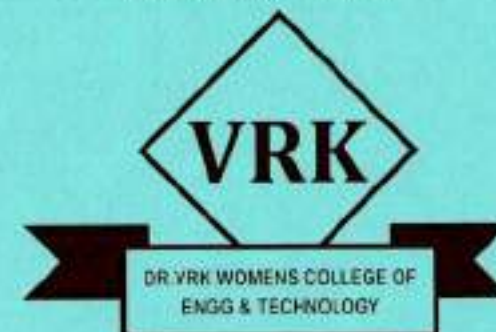
THREE WEEKS

**ADD-ON PROGRAMME
FOR THE STUDENTS
of**

Department of Electrical and Electronics
Engineering

ON
BASICS OF MATLAB PROGRAMMING
01-11-22 to 24-11-2022

(03:30PM to 05:30PM)



Organized by

Department of
Electrical and Electronics Engineering

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Contact No. 7893044962 / 08413235962

Website : www.drvrkwomenscollege.com

Date:22-10-22

Department of Electrical and Electronics Engineering,

Circular

All the students of II&III&IV B.Tech (EEE) are informed that Department of Electrical and Electronics Engineering, is proposed to conduct an **ADD-ON PROGRAM** on " Basics of MATLAB Programming" from 01-11-22 to 24-11-2022 (Monday to Saturday - 3:30 PM to 5:30 PM). The interested students are informed to enroll their names to Mr. Shaik Nagur Basha, Assistant Professor, Program Coordinator on or before 21-10-22.

To

All the students of EEE (B.Tech)

Mr. Shaik Nagur Basha,

Assistant Professor, in EEE, Program coordinator

Copy to:

1. The Principal
2. IQAC.
3. Department Notice Board



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EEE DEPARTMENT

**HEAD OF THE DEPARTMENT
ELECTRICAL & ELECTRONICS ENGINEERING
DR. VRK WOMEN'S COLLEGE OF
ENGINEERING & TECHNOLOGY**



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Azimnagar (V), Molnabad (M), R.R. Dist. 500 075 - T.S.
Contact No. 7893044962 / 08413235962
Website : www.drvtowomenscollege.com

Date:20-10-2022

Department of Electrical and Electronics Engineering
ACADEMIC YEAR 2022-23
ADD-ON PROGRAM
ON
BASICS OF MATLAB PROGRAMMING (EEE005)
Curriculum and Syllabus
01-11-22 to 24-11-2022

40 (HOURS)

COURSE OBJECTIVES:

The course aims to introduce students to the fundamentals of MATLAB programming for engineering applications, with the following objectives:

1. Acquaint students with the MATLAB environment, syntax, and basic programming concepts.
2. Develop skills in performing numerical computations, mathematical operations, and basic programming constructs.
3. Enable students to create meaningful visualizations, plots, and graphs using MATLAB for effective data representation.
4. Introduce students to MATLAB scripting, creating functions, and understanding code modularity.

COURSE OUTCOMES:

Upon completion of the course, students will:

1. Comprehend the MATLAB environment, syntax, and basic programming concepts.
2. Develop skills in numerical computations, mathematical operations, and basic programming constructs using MATLAB.
3. Generate effective visualizations, plots, and graphs for engineering data analysis in MATLAB.
4. Acquire proficiency in MATLAB scripting, including the creation of functions and understanding code modularity.

UNIT I: Introduction to MATLAB Basics

Overview of MATLAB Environment, MATLAB Syntax and Commands, Basic Programming Concepts in MATLAB.

UNIT II: Numerical Computation in MATLAB

Performing Numerical Computations, Mathematical Operations in MATLAB, Basic Programming Constructs in MATLAB

UNIT III: Data Visualization and Plotting

Introduction to Data Visualization in MATLAB, Creating Plots and Graphs, Effective Data Representation Techniques.

UNIT IV: MATLAB Scripting and Functions

Introduction to MATLAB Scripting, Creating and Executing Scripts, Functions in MATLAB: Creation and Use



Swagath
PROGRAM COORDINATOR

ABOUT DR. V.R.K. WOMEN'S COLLEGE OF ENGINEERING & TECHNOLOGY

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Highly qualified fraternity, sprawling campus, state-of-the-art laboratories, well equipped library, spacious playground and above all ever enthusiastic management make DR. V.R.K. Women's College of Engineering And Technology (VRKW)

ABOUT HUMANITIES AND SCIENCES

The department has been rated very high in academic Circles. The graduates from this department include many renowned technocrats, researchers and academicians working all over the world. The department provides a platform for the faculty and students of engineering colleges in the country to pursue their interest in basic and applied research. The department conducts various conferences, seminars and workshops on frontier areas of research in technical institution in India

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Society

PATRON

Dr.B.Sasi Kumar
Principal

CONVENER

Dr.Touseef Humaira
Professor & HOD H&S Dept.

CO-ORDINATOR

Dr.Touseef Humaira
Professor/H&S Dept.

NO REGISTRATION FEE

THREE WEEKS

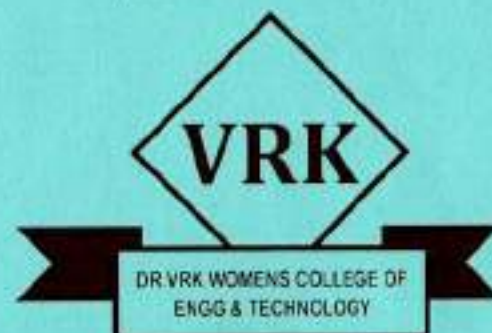
ADD-ON PROGRAMME FOR THE STUDENTS

of
Department of Humanities and Sciences

ON

ADVANCED APPLICATION OF SMART MATERIALS IN DAILY LIFE

10-01-2023 to 28-01-2023
(03:30PM to 05:30PM)



Organized by

Department of
Humanities & Sciences

**DR. V.R.K. Women's College of Engineering &
Technology**

(Affiliated to JNTUH & Approved by AICTE, New Delhi)
Aziz Nagar, Moinabad, Ranga Reddy District - 75,
Telangana, India.

<http://www.drvrkwomenscollege.com>



DR. V.R.K WOMEN'S COLLEGE OF ENGINEERING AND TECHNOLOGY

Approved by AICTE & Permitted by Government of Telangana State
Affiliated to Jawaharlal Nehru Technological University Hyderabad
Aziznagar (V), Moinsabad (M), R.R. Dist. 500 075 - T.S.
Contact No. 7893044962 / 08413235962
Website : www.drvrkwomenscollege.com

Date: 05-01-2023

Department of Humanities & Sciences

Circular

All the students of I-B.Tech (CSE) are informed that Department of Humanities & Sciences is proposed to conduct an Add-On Program on “**Advanced Applications of Smart Materials in Daily Life**” from 10-01-23 to 28-01-2023 (Monday to Saturday), 3:30 PM to 5:30 PM. The interested students are informed to enroll their names to Dr. Touseef Humaira, Program Coordinator on or before 07-01-2023.

To

All the students of CSE (B.Tech)

Dr. Touseef Humaira.

Professor in H&S, Program coordinator

Copy to:

1. The Principal
2. IQAC.
3. Department Notice Board



Touseef
HEAD OF THE DEPARTMENT
HUMANITIES AND SCIENCE
HOD
DR. V.R.K. WOMEN'S COLLEGE
OF ENGINEERING AND TECHNOLOGY



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Date:02-01-2023

Department of Humanities & Sciences **ACADEMIC CALENDAR (2022-23)** **ADD-ON PROGRAM**

ON

ADVANCED APPLICATION OF SMART MATERIALS IN DAILY LIFE(HS0005)

Curriculum and Syllabus

10-01-23 to 28-01-2023

Total Hours: 34 Hrs

Program Objectives:

1. **Understanding Smart Materials Basics:**

- Objective: Develop a foundational understanding of the characteristics, properties, and historical evolution of smart materials.

2. **Classification Proficiency:**

- Objective: Classify and distinguish various types of smart materials, such as piezoelectric materials, shape memory alloys, electroactive polymers, and others.

3. **Applications Recognition:**

- Objective: Identify and analyze practical applications of smart materials in different fields, including engineering, healthcare, consumer products, and beyond.

4. **Hands-On Understanding:**

- Objective: Gain practical knowledge of working principles and applications through hands-on activities, demonstrations, and case studies.

Program Outcomes:

Upon completion of the program, students should be able to:

1. **Apply Smart Materials Knowledge:**

- Outcome: Apply acquired knowledge of smart materials to solve real-world problems and design innovative solutions.

2. **Classify and Compare Smart Materials:**

- Outcome: Classify different types of smart materials, compare their properties, and select the most suitable materials for specific applications.

3. **Analyse and Evaluate Applications:**

- Outcome: Analyse and evaluate existing applications of smart materials in daily life, recognizing their benefits and limitations.

4. **Demonstrate Practical Skills:**

5. **Pursue Further Studies and Research:**

- Outcome: Develop an interest in further studies and research in the field of smart materials, contributing to ongoing advancements and innovations.

These program objectives and outcomes aim to provide a comprehensive and practical education on smart materials, preparing students for diverse careers and encouraging lifelong learning in this rapidly evolving field.

MODULE 1: Introduction to Smart Materials

• **LECTURE 1: Overview of Smart Materials**

- Piezoelectric Materials Definition and characteristics of smart materials
- Historical development and evolution
- Importance in various fields (engineering, healthcare, consumer products)

2: Classification of Smart Materials

LECTURE 2:

- Definition and properties
- Applications in sensors, actuators, and energy harvesting
- Examples of piezoelectric materials in daily life

LECTURE 3: Shape Memory Alloys (SMAs)

- Introduction to SMAs and their unique properties
- Applications in robotics, biomedical devices, and aerospace
- Real-world examples of SMA applications

MODULE 2:

Lecture 4: Electroactive Polymers (EAPs)

- Understanding EAPs and their types (ionic and electronic)
- Applications in artificial muscles, haptic technology, and soft robotics
- Case studies of EAPs in consumer electronics

Lecture 5: Thermochromic and Photochromic Materials

- Explanation of thermochromism and photochromism
- Applications in smart windows, clothing, and packaging
- Practical examples of thermochromic and photochromic materials in daily life

Lecture 6: Magnetic and Ferroelectric Materials

- Introduction to magnetic and ferroelectric materials
- Applications in data storage, sensors, and energy conversion
- Real-world examples of magnetic and ferroelectric materials

MODULE 4: Advanced Smart Materials

Lecture 7: Self-Healing Materials

- Definition and mechanisms of self-healing

- Applications in construction, automotive, and electronics
- Overview of nanomaterials and their impact on smart materials
- Applications in medicine, electronics, and energy
- Ethical considerations and challenges in nanotechnology
- Case studies showcasing successful integration
- **Lecture 8: Future Trends in Smart Materials**
 - Emerging technologies and materials
 - Predictions for the future of smart materials
 - Ethical considerations and societal impacts

Assessment and Evaluation



S. Suseef
PROGRAMME COORDINATOR