



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

INDEX

Academic Year (2021-22) 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.

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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 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

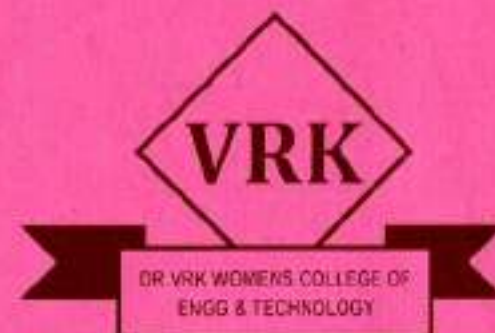
**ADD-ON PROGRAMME
FOR THE STUDENTS
of**

Department of Computer Science and Engineering

ON

MOBILE APPLICATION

25-10-2021 TO 17-11-2021
(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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(Affiliated to JNTUH & Approved by AICTE, New Delhi)

Aziz Nagar, Moinabad, Ranga Reddy District - 75,

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Contact No. 7893044962 / 08413235962

Website : www.drvrkwomenscollege.com

Date:22.10.2021

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 "MOBILE APPLICATION" from 25-10-2021 TO 17-11-2021 (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 22-10-2021.

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

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


HOD
CSE DEPARTMENT



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



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20-11-2021

Department of Computer Science and Engineering

ADD-ON PROGRAM

ON

MOBILE APPLICATION(MOBA01)

Curriculum and Syllabus

25-10-2021 TO 17-11-2021

Total Hours: 38 Hrs

PROGRAMME OBJECTIVES:

- 1.To facilitate students to understand android SDK
2. To help students to gain a basic understanding of Android application development
3. To inculcate working knowledge of Android Studio development tool

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

1. Identify various concepts of mobile programming that make it unique from programming for other platforms
2. Critique mobile applications on their design pros and cons
3. Utilize rapid prototyping techniques to design and develop sophisticated mobile interfaces
4. Program mobile applications for the Android operating system that use basic and advanced phone features
5. Deploy applications to the Android marketplace for distribution.

UNIT - I Introduction to Android; The Android Platform, Android SDK, Eclipse Installation, Android Installation, Building you First Android application, Understanding Anatomy of Android Application, Android Manifest file.

UNIT - II Android Application Design Essentials: Anatomy of an Android applications, Android terminologies, Application Context, Activities, Services, Intents, Receiving and Broadcasting Intents, Android Manifest File and its common settings, Using Intent Filter, Permissions.

UNIT - III Android User Interface Design Essentials: User Interface Screen elements, Designing User Interfaces with Layouts, Drawing and Working with Animation.

UNIT - IV Testing Android applications, Publishing Android application, Using Android preferences, Managing Application resources in a hierarchy, working with different types of resources




PROGRAMME COORDINATOR

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Chairman-DR. V.R.K Educational
Society

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

Computer Graphics

01-12-2021 to 22-12-2021
(03:30PM to 05:30PM)



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Website : www.drvrkwomenscollege.com

Date: 27-11-2021

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 "Computer Graphics" from 01-12-21 to 22-12-21 (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 01-12-21.

To

All the students of CSE (B.Tech)

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

Copy to:

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



G. Kalaimani
HOD
CSE DEPARTMENT

HEAD OF THE DEPARTMENT
COMPUTER SCIENCE & ENGINEERING
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Department of Computer Science and Engineering ADD-ON PROGRAM

ON COMPUTER GRAPHICS(COMG02) Curriculum and Syllabus 01-12-2021 TO 22-12-2021

Total Hours: 36 HRs

COURSE OBJECTIVES:

- The main objective of the course is to introduce students with fundamental concepts and theory of computer graphics
- It presents the important drawing algorithm, polygon fitting, clipping and 2D transformation curves and an introduction to 3D transformation
- It provides the basics of OpenGL application programming interface which allows students to develop programming skills in CG

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

- Acquire familiarity with the relevant mathematics of computer graphics
- Be able to design basic graphics application programs, including animation
- Be able to design applications that display graphic images to given specification

Module :1 Introduction to computer graphics,output devices: CRT, Raster Scan & Random Scan systems; Color CRT monitors, DVST, flat-panel displays, video controller, Output primitive, Polygon filling

Module :2 2-D Geometrical Transforms,2-D Viewing: Viewing pipeline, Window-to-viewport transformation, 2-D Clipping, Chen-Sutherland Line Clipping

Module :3 3-D Object Representation

Module :4 3-D Geometric Transformations,3-D Viewing

Module: 5 Computer Animation,Visible Surface Detection Methods

Module: 6 Image compression,Error free and lossy compression

Module: 7 Morphological Image processing – Overview



[Signature]
PROGRAM COORDINATOR

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Chairman-DR. V.R.K Educational
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Dr.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

Information Theory and Coding

01-12-2021 to 22-12-2021
(03:30PM to 05:30PM)



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Website : www.dvrkwomenscollege.com

Date:27.11.2021

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 " **Information Theory and Coding**" from 01-12-21 to 22-12-21(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 31-11-21.

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

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20.11.2021

Department of Computer Science and Engineering
ADD-ON PROGRAM
ON
INFORMATION THEORY AND CODING(INTC03)
Curriculum and Syllabus
01-12-21 to 22-12-2021

Total Hours: 36 Hrs

PROGRAMME OBJECTIVES:

- To provide an insight into the concept of information in the context of communication theory and its significance in the design of communication receivers.
- To explore in detail, the calculations of channel capacity to support error-free transmission and also, the most commonly used source coding and channel coding algorithms.
- To encourage and train to design coding schemes for data compression and error correction, and they will also get an overall perspective of how this impacts the design of an optimum communication receiver.

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

- Overview of Probability Theory, significance of "Information" with respect to Information Theory.
- Derive equations for entropy, mutual information and channel capacity for all kinds of channels.
- Implement the various types of source coding algorithms and analyse their performance.
- Explain various methods of generating and detecting different types of error correcting codes
- Understand the fundamentals of Field Theory and polynomial arithmetic
- Design linear block codes and cyclic codes (encoding and decoding).
- Implement and decode a sequence at the receiver using Trellis decoder and Viterbi decoder.
- Perform mathematical analysis of problems in Information Theory and Coding, Implementation and verification using MATLAB simulation

Module :1 Information Theory, Markov statistical model

Module :2 Source Code, Shannon's Encoding Algorithm, Source Coding Theorem, Huffman code; Asymptotic equipartition property; Universal coding; Noisy Channel Coding - Channel capacity; Random channel codes.

Module: 3 Information Channel, Joint probability Matrix, Binary Symmetric Channel, System Entropies

Module: 4 Error Control Coding, Linear Block Code, Error Detection and Correction, Binary Cyclic Codes

Module: 5 Convolution Codes, Code




PROGRAMME COORDINATOR

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PATRON

Dr.B.SASI KUMAR
Principal

CONVENER

Dr.G.KALAIMANI
Professor & HOD CSE Dept.

CO-ORDINATOR

Dr.Mohammed Akheel
Professor/CSE Dept.

NO REGISTRATION FEE

THREE WEEKS

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

Department of Computer Science and Engineering

ON

Information Retrieval System

28-03-2022 to 18-04-2022
(03:30PM to 05:30PM)



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Date:17.03.2022

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 "Information Retrieval System" from 28-03-2022 to 18-04-2022 (Monday to Saturday - 3:30 PM to 5:30 PM). The interested students are informed to enroll their names to Dr.Mohammed Akheel, Program Coordinator on or before 25-03-2022.

To

All the students of CSE (B.Tech)

Dr.Mohammed Akheel, Professor in CSE, Program coordinator

Copy to:

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

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10.03.2022

Department of Computer Science and Engineering
ADD-ON PROGRAM
ON
INFORMATION RETRIEVAL SYSTEM (INFR04)
Curriculum and Syllabus
28-03-2022 TO 18-04-2022

Total Hours: 36 Hrs

COURSE OBJECTIVES:

- Demonstrate genesis and diversity of information retrieval situations for text and hyper media.
- Describe hands-on experience store, and retrieve information from www using semantic approaches
- Demonstrate the usage of different data/file structures in building computational search engines.
- Analyze ranked retrieval of a very large number of documents with hyperlinks between them.

COURSE OUTCOMES:

- Describe the objectives of information retrieval systems
- Describe models like vector-space, probabilistic and language models to identify the similarity of query and document.
- Implement clustering algorithms like hierarchical agglomerative clustering and k-means algorithm
- Understand relevance feedback in vector space model and probabilistic model
- Illustrate how N-grams are used for detection and correction of spelling errors.

UNIT – I: Introduction: Retrieval strategies: vector space model, Probabilistic retrieval strategies: Simple term weights, Non binary independence model, Language models.

UNIT – II: Retrieval Utilities: Relevance feedback, clustering, N-grams, Regression analysis, Thesauri.

UNIT – III: Retrieval utilities: Semantic networks, parsing Cross –Language: Information Retrieval: Introduction, Crossing the Language barrier.

UNIT – IV: Efficiency: Inverted Index, Query processing, Signature files, Duplicate document detection.

UNIT – V: Integrating structured data and text. A historical progression, Information retrieval as relational application, Semi Structured search using a relational schema




PROGRAMME COORDINATOR

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Chairman-DR. V.R.K Educational
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Dr.B.Sasi Kumar
Principal

CONVENER

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

CO-ORDINATOR

Mr.DVGS Prasad,
Assistant Professor/CSE Dept.

NO REGISTRATION FEE

THREE WEEKS

ADD-ON PROGRAMME FOR THE STUDENTS

of

Department of Computer Science and Engineering

ON

Text and Speech Analysis

10-03-2022 to 31-03-2022
(03:30PM to 05:30PM)



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Date:04-03-2022

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 "Text and Speech Analysis" from 10-03-2022 to 31-03-2022 (Monday to Saturday - 3:30 PM to 5:30 PM). The interested students are informed to enroll their names to Mr.DVGS Prasad, Program Coordinator on or before 09-03-2022.

To

All the students of CSE (B.Tech)

Mr.DVGS Prasad, Assistant 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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C. Kalaji
HOD
CSE DEPARTMENT



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03-03-2022

Department of Computer Science and Engineering
ADD-ON PROGRAM
ON
TEXT AND SPEECH ANALYSIS (TESP05)
Curriculum and Syllabus
10-03-2022 TO 31-03-2022

Total Hours: 36 Hrs

PROGRAMME OBJECTIVES:

- Understand natural language processing basics
- Apply classification algorithms to text documents
- Build question-answering and dialogue systems
- Develop a speech recognition system
- Develop a speech synthesizer

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

- 1: Explain existing and emerging deep learning architectures for text and speech processing
- 2: Apply deep learning techniques for NLP tasks, language modelling and machine translation
- 3: Explain coreference and coherence for text processing
- 4: Build question-answering systems, chatbots and dialogue systems
- 5: Apply deep learning models for building speech recognition and text-to-speech systems

Module I Foundations of natural language processing – Language Syntax and Structure- Text Preprocessing and Wrangling – Text tokenization – Stemming – Lemmatization – Removing stop words –Implementation of Text Preprocessing using NLTK

Module II TEXT CLASSIFICATION 6 Vector Semantics and Embeddings -Word Embeddings - Word2Vec model – Glove model Overview of Text summarization and Topic Models Suggested Activities Transformers • Implementing NLP with RNN and Transformers

Module III QUESTION ANSWERING AND DIALOGUE SYSTEMS 9 Information retrieval – IR-based question answering – knowledge-based question answering – language models for QA – classic QA models.

Module IV TEXT-TO-SPEECH SYNTHESIS 6 Overview. Text normalization. Letter-to-sound. Prosody, Evaluation. Signal processing - WaveNet and other deep learning-based TTS systems Suggested Activities • Quiz on wavenet, deep learning-based TTS systems

Module V AUTOMATIC SPEECH RECOGNITION Speech recognition: Acoustic modelling – Feature Extraction.



PROGRAMME 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

Mrs Mubeena Anjum
Assistant Professor/CSE Dept.

NO REGISTRATION FEE

THREE WEEKS

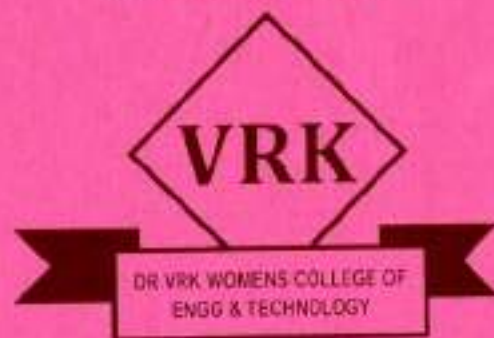
ADD-ON PROGRAMME FOR THE STUDENTS

of
Department of Computer Science and Engineering

ON

Cloud Services Management

12-01-2022 to 31-01-2022
(03:30PM to 05:30PM)



Organized by
Department of
Computer Science and 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,
Telangana, India.

<http://www.drvrkwomenscollege.com>



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

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

08-01-2022

Department of Computer Science and Engineering

Circular

All the students of M.Tech (CSE) are informed that Department of Computer Science and Engineering is proposed to conduct an **ADD-ON PROGRAM** on "Cloud services management" from 12-01-2022 TO 31-01-2022 (Monday to Saturday - 3:30 PM to 5:30 PM). The interested students are informed to enroll their names to Mrs.Mubeena Anjum, Program Coordinator on or before 10-01-2022.

To

All the students of CSE (B. Tech)

Mrs.Mubeena Anjum, Assistant Professor in CSE, Program coordinator

Copy to:

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

Resg

Head
CSE DEPARTMENT



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

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

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Contact No. 7893044962 / 08413235962
Website : www.drvrkwomenscollege.com



08-01-2022

Department of Computer Science and Engineering ADD-ON PROGRAM

ON

Cloud Services Management (CLOD06)

Curriculum and Syllabus

12-01-2022 TO 31-01-2022

Total Hours: 32 HRs

PROGRAMME OBJECTIVES:

- Introduce Cloud Service Management terminology, definition & concepts
- Compare and contrast cloud service management with traditional IT service management
- Identify strategies to reduce risk and eliminate issues associated with adoption of cloud services
- Select appropriate structures for designing, deploying and running cloud-based services in a business environment
- Illustrate the benefits and drive the adoption of cloud-based services to solve real world problems

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

- Exhibit cloud-design skills to build and automate business solutions using cloud technologies
- Possess Strong theoretical foundation leading to excellence and excitement towards adoption of cloud-based services
- Solve the real-world problems using Cloud services and technologies.

Module I CLOUD SERVICE MANAGEMENT FUNDAMENTALS Cloud Ecosystem, The Essential Characteristics, Basics of Information Technology Service Management and Cloud Service Management, Service Perspectives.

Module II CLOUD SERVICES STRATEGY 6 Cloud Strategy Fundamentals, Cloud Strategy Management Framework, Cloud Policy, Key Driver for Adoption.

Module III CLOUD SERVICE MANAGEMENT 6 Cloud Service Reference Model, Cloud Service Lifecycle, Basics of Cloud Service Design, Dealing with Legacy Systems and Services, Benchmarking of Cloud Services, Cloud Service Capacity Planning.

Module IV CLOUD SERVICE ECONOMICS 6 Pricing models for Cloud Services, Freemium, Pay Per Reservation, pay per User, Subscription based Charging.

Module V CLOUD SERVICE GOVERNANCE & VALUE 6 IT Governance Definition, Cloud Governance Definition, Cloud Governance Framework, Cloud Governance Structure.



Ref
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. Guguloth Ravi kumar
Professor/ECE Dept.

NO REGISTRATION FEE

THREE WEEKS

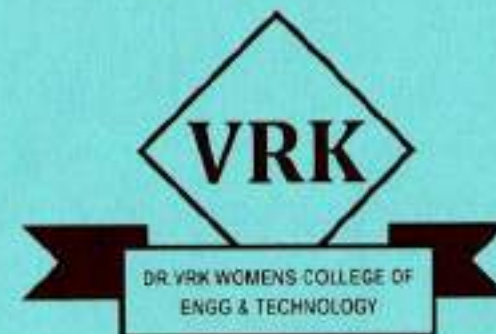
**ADD-ON PROGRAMME
FOR THE STUDENTS
of**

Department of Electronics and Communication
Engineering

ON

**Speech and audio Signal Processing using
MATLAB(ECE005)**

01-12-2021 to 22-12-2021
(03:30PM to 05:30PM)



Organized by

Department of
Electronics and Communication 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,

Telangana, India.

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Aziznagar (V), Molabed (M), R.R. Dist. 500 075 - T.S.
Contact No. 7893044962 / 08413235962

COUNSELING CODE	
EAMCET	VRKW
ECET	VRKW
PGCET	VRKW

Date:28-10-2021

Department of Electronics and Communication Engineering

Circular

All the students of II-B.Tech (ECE) are informed that Department of Electronics and Communication Engineering is proposed to conduct an **ADD-ON PROGRAM** on " **Speech and audio signal Processing using MATLAB**" from 01-12-2021 TO 22-12-2021 (Monday to Saturday - 3:30 PM to 5:30 PM). The interested students are informed to enroll their names to Dr. Guguloth Ravi kumar, Program Coordinator on or before 30-10-2021.

To

All the students of ECE (B.Tech)

Dr. Guguloth Ravi kumar, 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
ENGINEERING & TECHNOLOGY**



Dr. VRK WOMEN'S COLLEGE OF ENGINEERING & TECHNOLOGY

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Affiliated to J.N.T.U, Hyderabad.

Aziznagar (V), Moinsabad (M), R.R. Dist. 500 075 - T.S.
Contact No. 7893044962 / 08413235962

COUNSELING CODE	
EAMCET	VRKW
ECET	VRKW
PQECET	VRKW

20-10-2021

Department of Electronics and Communication Engineering

ADD-ON PROGRAM

ON

SPEECH AND AUDIO SIGNAL PROCESSING USING MATLAB(ECE004)

Curriculum and Syllabus

01-12-2021 TO 22-12-2021

Total Hours: 36 Hrs

PROGRAMME OBJECTIVES:

This course is intended for providing an insight into the nature of speech and audio signals, exploring the different parameters associated with short-time analysis of speech signals and learning the effects of filtering audio signals.

PROGRAMME OUTCOMES:

At the end of this course, students will be able to:

Understand the need for all the basic preprocessing tasks associated with speech signals and perform the same efficiently. Extract various parameters related to speech signals
Understand filtering concepts and companding techniques.

Module :1 Introduction to MATLAB

Introduction to MATLAB, Introduction to signals- stationary and non-stationary signals.

Module :2 Introduction to speech signals-speech production mechanism-import and export speech signals- sampling frequency-short-time analysis- framing and windowing.

Module: 3 Short-time parameters- short-time energy- zero crossing rate- short-time auto correlation,

Module: 4 silence removal using short-time parameters, noise removal.

Module: 5 Effect of filtering Effect of filtering audio signals, Companding techniques- A-law and μ -law companding.




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 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.Syed Mudassir Zeeshan
Assisstant Professor, EEE Dept

NO REGISTRATION FEE

THREE WEEKS

**ADD-ON PROGRAMME
FOR THE STUDENTS**

of
Department of Electrical and Electronics
Engineering

ON

Programmable Logic Controller
01-12-2021 to 22-12-2021
(03:30PM to 05:30PM)



Organized by

Department of
Electrical and Electronics
Engineering

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

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Aziz Nagar, Moinabad, Ranga Reddy District - 75,
Telangana, India.

<http://www.drvrkwomenscollege.com>



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Aziznagar (V), Moinsabad (M), R.F. Dist. 500 076 - T.S.
Contact No. 7883044962 / 08413235962
Website : www.drirkwomenscollege.com

Date:23-11-21

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 "Programmable Logic Controller" from 01-12-21 to 22-12-2021 (Monday to Saturday - 3:30 PM to 5:30 PM). The interested students are informed to enroll their names to Mr.Syed Mudassir Zeeshan, Assistant Professor, Program Coordinator on or before 22-11-21.

To

All the students of EEE (B.Tech)

Mr.Syed Mudassir Zeeshan, Assistant Professor, in EEE, Program coordinator

Copy to:

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



HOD

EEE DEPARTMENT

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



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Aziznagar (V), Moinsabad (M), R.R. Dist. 500 075 - T.S.
Contact No. 7893044962 / 08413235962
Website : www.drvrkwomenscollege.com

Date:20-11-2021

Department of Electrical and Electronics Engineering

ACADEMIC CALENDAR 2021-2022

ADD-ON PROGRAM

ON

Programmable Logic Controller (EEE004)

Curriculum and Syllabus

01-12-21 to 22-12-2021

36 (HOURS)

COURSE OBJECTIVES:

The course aims to equip students with the knowledge and skills to:

1. Explain the principles of programmable logic controllers (PLCs) and programming.
2. Develop logic systems, fundamental PLC wiring diagrams, and ladder programs.

COURSE OUTCOMES:

1. Students will proficiently describe and list functions of PLC hardware components.
2. They will articulate advantages of PLCs over traditional relay systems.
3. Students will demonstrate mastery of decimal, binary, octal, and hexadecimal numbering systems.
4. They will design and analyze logic, constructing truth tables and Boolean equations.
5. Students will convert relay ladder diagrams into logic ladder diagrams and define PLC instruction functions.

MODULE I :

PROGRAMMABLE LOGIC CONTROLLER

Logic System, Number System, Codes, Combination Logic.

MODULE II:

PLC PROGRAMMING


Ladder programs, Timers, Counters, Advanced PLC Instructions, Program control instructions.

MODULE III:

PLC INSTALLATION PRACTICES

Installation, Troubleshooting, Applications.




PROGRAM COORDINATOR

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

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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

CHIEF PATRON

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

PATRON

Dr.B.Sasi Kumar
Principal

CONVENER

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

CO-ORDINATOR

Mrs.Asra Jabeen
Assistant Professor/H&S Dept.

NO REGISTRATION FEE

THREE WEEKS

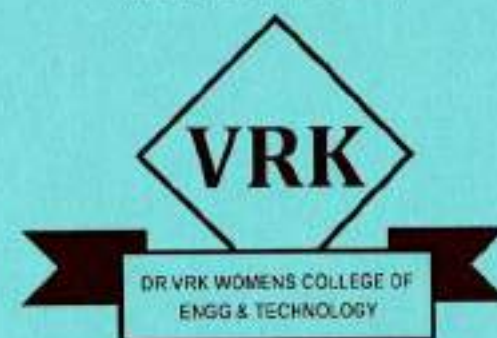
ADD-ON PROGRAMME FOR THE STUDENTS

of
Department of Humanities & Science

ON

"A certificate Course Personality Development"

From: 02-02-2022 to 22-02-2022
(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>



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Aziznagar (V), Moinsabad (M), R.R. Dist. 500 075 - T.S.
Contact No. 7893044962 / 08413235962

COUNSELING CODE	
EAMCET	VRKW
ECET	VRKW
PGEET	VRKW

22-01-2022

Department of Humanities and Sciences

Circular

(ENGLISH)

All the students of 1 Yr-B.Tech (CSE) are informed that Department of Humanities and Sciences is proposed to conduct an **ADD-ON PROGRAM** on "A certificate Course **Personality Development**" from 02-02-2022 to 22-02-2022 (Monday to Saturday - 3:30 PM to 5:30 PM). The interested students are informed to enroll their names to Mrs Asra Jabeen, Program Coordinator on or before 01-01-2022.

To

All the students of H&S(B.Tech)
Mrs Asra Jabeen
Assistant Professor in H&S,
Program coordinator

Copy to:

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



[Signature]
HOD
H&S DEPARTMENT

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



Dr. VRK WOMEN'S COLLEGE OF ENGINEERING & TECHNOLOGY

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Aziznagar (V), Molinabad (M), R.R. Dist. 500 075 - T.S.
Contact No. 7893044962 / 08413235962

COUNSELING CODE	
EAMCET	VRKW
ECET	VRKW
PGEET	VRKW

Date:20-01-2022

Department of Humanities & Science ADD-ON PROGRAM ON

A certificate Course Personality Development”(HS0004) Curriculum and Syllabus

(02-02-022 to 22-02-2022)

Duration: 34 Hrs.

PROGRAM OBJECTIVES:

1. Self-awareness:

To help participants gain a deeper understanding of their own strengths, weaknesses, values, and beliefs. To encourage self-reflection for personal and professional growth.

2. Communication Skills:

To enhance verbal and non-verbal communication skills.

To develop effective listening skills and the ability to express ideas clearly.

3. Confidence Building:

To boost self-confidence and self-esteem.

To provide tools and techniques for overcoming self-doubt and fear.

4. Interpersonal Skills:

To improve interpersonal relationships and social skills.

To foster teamwork and collaboration.

5. Emotional Intelligence:

To develop emotional intelligence for better understanding and management of emotions. To cultivate empathy and interpersonal sensitivity.

6. Professional Etiquette:

To instill professional behavior and etiquette in various settings.

To understand and practice appropriate workplace conduct.

7. Time Management:

To teach effective time management techniques.

To prioritize tasks and set achievable goals.

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

1. **Improved Self-Image:** Participants have a more positive and realistic view of themselves.
2. **Enhanced Communication:** Improved ability to express ideas clearly and listen actively.
3. **Increased Confidence:** Greater self-assurance and belief in one's abilities.
3. **Effective Interpersonal Relationships:** Improved relationships with peers, colleagues, and superiors.
4. **Better Emotional Management:** Enhanced emotional intelligence and better control over emotions.
5. **Professionalism:** Adherence to professional conduct and etiquette in various settings.
6. **Time Management Skills:** Improved ability to prioritize tasks and manage time efficiently.

MODULE-1

Introduction: To Personality Development

The concept of personality-Dimensions of personality -theories of Freud & Erickson- Significance of personality development, the concept of success and failure: what is success? Hurdle in achieving success-over coming hurdles- factors responsible for success- what is failure ?-Causes of failure ,SWOT analysis.

MODULE-2

Attitude and Motivation

Attitude- concept -significance -factors affecting attitudes -positive attitude -advantages - negative attitude -Disadvantages-ways to develop positive attitude -difference between personalities having positive and negative attitude, concept of motivation -significance - Internal and external motives- Importance of self-motivation -factors leading to de-motivation.

MODULE-3

Self - Esteem

Term self-esteem -symptoms- Advantages - Do's and Don'ts to develop positive self - esteem - low self -esteem - symptoms- personality having low self-esteem-positive and negative self-esteem Interpersonal relationships- defining the difference between aggressive, submissive and assertive behavior -lateral thinking.

MODULE-4

Other Aspects Of Personality Development

Body Language- problem solving, Conflict and stress management- decisions making skills- leadership and qualities of a successful leader- character building - team-work- time management -work ethics -good manners and etiquettes.

MODULE-5

Employability Quotient

Resume building -The art of participating in group -Discussion -facing the personal(HR & Technical) Interview -frequently asked questions -Psychometric Analysis -Mock-Interview session.



PROGRAM COORDINATOR

Aura