

# UNNAMALAI INSTITUTE OF TECHNOLOGY

Suba Nagar, Kovilpatti-628502

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

UIT/Circular/VAC/2019-20/16

Date: 24/1/20

## Circular

The Department of Computer Science and Engineering is conducting 5 days Value added course on “VCSE1903 Visual Programming “ for II year Computer Science and Engineering students during 25/1/20, 1/2/20, 15/2/20, 29/2/20 & 7/3/20. All the students are informed to attend the course without fail.

Principal

PRINCIPAL  
Unnamalai Institute of Technology  
Suba Nagar, KOVILPATTI - 628 502  
Thoothukudi (Dt)

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1. The Chairman (for kind information)
2. To be circulated among Staff Members
3. To be read in II B.E. CSE
4. Notice Board
5. File

Dr. D. RAVINDRAN, M.E., Ph.D.,  
Principal  
Unnamalai Institute of Technology  
Suba Nagar, KOVILPATTI - 628 502.  
Thoothukudi District



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Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

## Department of Computer Science and Engineering

Academic Year : 2019-2020

Course code & Name : VCSE1903 Visual Programming

Course duration : 30 hour

### Syllabus

#### Course Objectives:

The main objectives of this course are:

1. Comprehend the C# language and the .NET Framework.
2. Demonstrate the use of Windows Forms applications with rich, highly responsive user interfaces.
3. Identify the cloud web applications and Services using ASP.NET.
4. Relate the use of Language Integrated Query (LINQ).

**Target Audience: Students of Computer Science and Engineering**

#### Topics Covered:

- C
- XML
- Debugging
- JSON
- LINQ
- DATABASE

#### Course Content:

DAY 1: Introducing C#, Writing a C# Program, Variables and Expressions. Flow Control, More About Variables, Functions.

DAY 2: Debugging and Error Handling, Introduction to Object-Oriented Programming, Defining Classes, Defining Class Members. Collections, Comparisons and Conversions.

DAY 3: Generics, Additional C# Techniques, Basic Desktop Programming. Advanced Desktop Programming.

DAY 4: Advanced Cloud Programming Files, XML

DAY 5: JSON, LINQ, DATABASES

#### Learning Resources:

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## Text Book:

1. Karli Watson, Christian Nagel, Jacob Hammer Pedersen, Jon Reid, and Morgan Skinner, BEGINNING VISUAL C# 2015, Wiley Publishing, Inc.

## Reference Books:

1. Stephen C. Perry, Core C# and .NET, Pearson Education, 2006.
2. Herbert Scheldt, C#: The Complete Reference, TATA McGraw Hill Publishing.
3. Andrew Troelsen, Pro C# and the .NET Platform, A! Press.
4. Kevin Hoffman, Microsoft Visual C# 2005 Unleashed, Sams Pearson India.

## Web References:

1. [https://en.wikipedia.org/wiki/.NET\\_Framework](https://en.wikipedia.org/wiki/.NET_Framework)
2. [www.dotnetjalps.com/.../Dynamic-URL-of-asp-net-web-service](http://www.dotnetjalps.com/.../Dynamic-URL-of-asp-net-web-service)

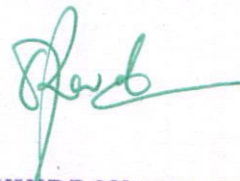
## Course Outcomes:

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

- CO1. Apply the fundamental concepts of C# programming.
- CO2. Implement advanced OOPS concepts in console applications.
- CO3. Develop and deploy cloud web applications and web services using ASP.NET and AZURE API.
- CO4. Develop database driven applications utilizing XML and LINQ.

  
Course Coordinator

  
HoD

  
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Principal  
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**Academic Year 2019-2020**

**Department of Computer Science and Engineering**

**Report On**

**“VCSE1903 Visual Programming”**

<b>Course Title</b>	VCSE1903 Visual Programming
<b>Department</b>	Computer Science and Engineering
<b>Course Coordinator</b>	Mr.S.Mathumohan- AP/ CSE
<b>Resource Person</b>	Ms.K.Archana -AP/CSE
<b>Target Audience</b>	II Year Computer Science and Engineering
<b>Total Strength</b>	36 Students
<b>Venue</b>	Computer lab
<b>No of Days/Hours</b>	5Days/30 Hours
<b>Dates</b>	25/1/20,1/2/20,15/2/20,29/2/20&7/3/20

In the First session the resource person started the topic on “Introducing C#,” in view of Overview, Writing a C# Program, Variables and Expressions. Flow Control, More About Variables, Functions were explained.

The Second session, the resource person started the class on “Debugging”. The detailed explanation of Debugging and Error Handling, Introduction to Object-Oriented Programming, Defining Classes, Defining Class Members. Collections, Comparisons and Conversions were explained.

The third session the resource person started the session on the topic of “Additional C” A detailed Explanation of Generics, Additional C# Techniques, Basic Desktop Programming. Advanced Desktop Programming were explained.

The Fourth session the resource person started the session on the topic on “XML” A detailed explanation of Advanced Cloud Programming Files, XML were explained.

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Principal  
Unnamalai Institute of Technology  
Suba Nagar, KOVILPATTI - 628 502.  
Thoothukudi District

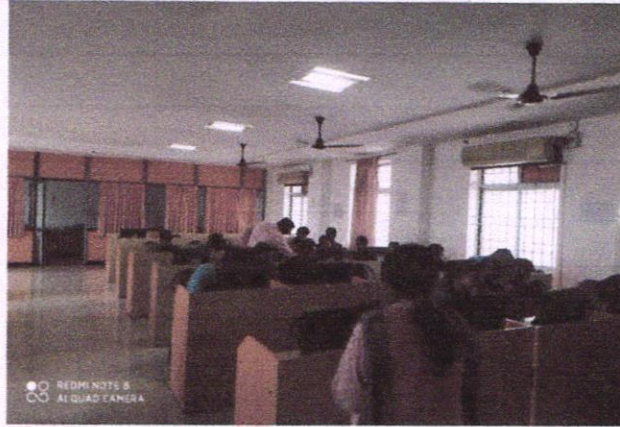


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In the final day, the resource person started the session with the topic of "DATABASES". A detailed explanation of JSON, LINQ, DATABASES were explained.. An Assessment was conducted for 30 minutes with 20 questions. Finally, Overview of 5days session was given and feedback from students are collected and the course ended with vote of thanks by a student.



Photograph showing students attending the Visual Programming

Course Coordinator

HoD

Principal

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Unnamalai Institute of Technology  
Suba Nagar, KOVILPATTI - 628 502  
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Unnamalai Institute of Technology  
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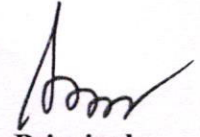
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UIT/Circular/VAC/2019-20/003

Date: 23/01/2020

## Circular

The Department of Civil Engineering have planned to organize a Value added course on **“VC1902 Techniques of Design and Analysis of Foundation for Earthquake Resistant”** for III Year Students of Civil Engineering Department. This course will be offered on 25/01/2020, 01/02/2020, 15/02/2020, 29/02/2020 & 07/03/2020. Students are advised to make use of this opportunity and get benefited.



Principal

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Unnamalai Institute of Technology  
Suba Nagar, KOVILPATTI - 628 502  
Thoothukudi (Dt)



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Unnamalai Institute of Technology  
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## Department of Civil Engineering

**Academic Year : 2019-2020**

**Course code & Name: VC1902 Techniques of Design and Analysis of Foundation for Earthquake Resistant**

**Course duration : 30 hour**

### Syllabus

#### Course Objectives:

To impart knowledge on the following Topics

- Understand the various types of foundations
- Understanding about soil investigations, soil parameters, and codes of practice
- Design of deep foundations for lateral loads.
- Understanding about shallow and deep foundations

#### Course Overview:

The aim of the course is to focus on techniques of design of foundations so that it does not fail during earthquakes and both shallow and deep foundations.

**Target Audience:** Students of Civil Engineering.

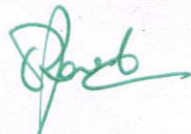
#### Topics Covered:

- Introduction
- Shallow Foundations
- Bearing Capacity under Transient & Earthquake Type Loads
- Dynamic Bearing Capacity and Design Data
- Pile Foundations

#### Course Layout:

##### Day 1- Introduction

General requirements, types of shallow and deep foundations and their use; performance of various types of foundations during past earthquakes.

  
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Principal  
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## Day 2 - Shallow Foundations

IS codes for bearing capacity and settlement of foundations, Foundation design, modes of soil failure, methods of analysis, experimental investigations, combined footings for earthquake loads: Raft foundation, modulus of sub grade reaction, Winkler model, beam on elastic foundation, soil line method.

## Day 3 – Bearing Capacity under Transient & Earthquake Type Loads

Types of dynamic loads; Footing requirements to account for settlements and earthquake induced forces; Pseudo-Static analysis of footings with eccentric & inclined loads. Effect of horizontal load and moment

## Day 4 – Dynamic Bearing Capacity and Design Data

Dynamic Analysis of shallow foundations for various modes of vibrations, Design seismic coefficients for various foundation soil systems, provisions of IS codes and their limitations; seismic coefficient and response spectra methods.

## Day 5 – Pile Foundations

Types of piles based on usage, material, construction etc. pile load capacity in compression, Bearing capacity of piles, group action of piles, settlement of a pile group, Laterally loaded piles, elastic analysis; Reese and Matlock approach, fixity of pile heads, dimensionless factors; Pile with dynamic loads.

## Course Outcomes:


After the completion of this course, students will be able to


CO1: Understand the various types of foundations

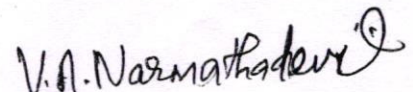
CO2: Understanding about soil investigations, soil parameters, and codes of practice

CO3: Design of deep foundations for lateral loads.

CO4: Understanding about shallow and deep foundations

  
Course Coordinator

  
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Principal  
Unnamalai Institute of Technology  
Suba Nagar, KOVILPATTI - 628 502.  
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V.A. Narmathadevar  
HoD





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**Academic Year 2019-2020**

**Department of Civil Engineering**

**Report On**

**“VC1902 Techniques of Design and Analysis of Foundation for Earthquake Resistant”**

<b>Course Title</b>	VC1902 Techniques of Design and Analysis of Foundation for Earthquake Resistant
<b>Department</b>	Civil Engineering
<b>Course Coordinator</b>	Ms. S.Nivedha – AP/Civil
<b>Resource Person</b>	Mr. M.Sathish – AP/ Civil
<b>Target Audience</b>	III Year Civil
<b>Total Strength</b>	14 Students
<b>Venue</b>	CAD LAB
<b>No of Days/Hours</b>	5 Days/30 Hours
<b>Dates</b>	25/01/2020, 01/02/2020, 15/02/2020, 29/02/2020,07/03/2020

In the First session the resource person started the course with introduction to foundation and gave a detailed explanation about some general requirements, types of foundation and their uses.

The Second session, the resource person started the class on “Shallow Foundation”. The detailed explanation of IS Codes, combined footings for earthquake loads, raft foundation, winkles model, beam on elastic foundation, soil line method were given.

The third session the resource person started the session on the topic of “Bearing Capacity under Transient & Earthquake type loads”. A detailed Explanation of types of dynamic loads, footing requirements, pseudo static analysis and effect of horizontal loads were given.

The Fourth session the resource person started the session on the topic on “Dynamic Bearing Capacity and Design Data”. A detailed explanation of Dynamic analysis, seismic coefficient, and spectra method were explained.

  
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Principal  
Unnamalai Institute of Technology  
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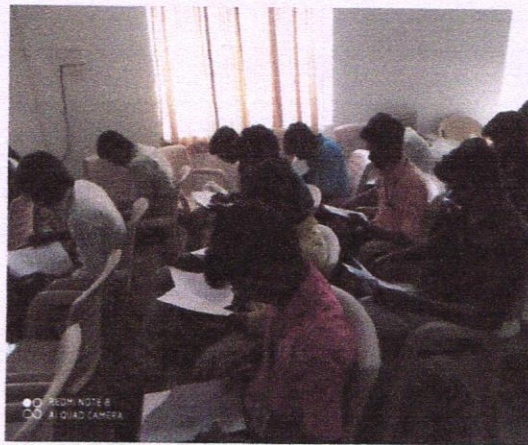
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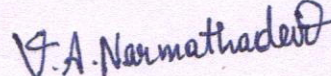
In the final day, the resource person started the session with the topic of "Pile Foundation". A detailed explanation of types of pile, usage, construction, loaded piles, elastic analysis were explained.

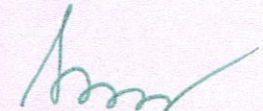
An Assessment was conducted for 30 minutes with 20 questions. Finally, Overview of 5 days session was given and feedback are collected from students, and the course ended with vote of thanks by a student.

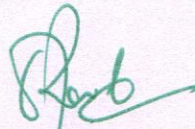


**Photograph showing students attending the Techniques of Design and Analysis of Foundation for Earthquake Resistant**

  
Course Coordinator

  
HoD

  
Principal



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Suba Nagar, KOVILPATTI - 628 502.  
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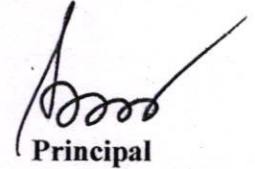
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UIT/Circular/VAC/2020-20/02

Date: 22/01/2020

## Circular

The Department of Electronics and Communication Engineering is offering a Value added course on "VECE1902 MATLAB Programming" for II-year ECE students. This course will be offered on 25/1/20, 1/2/20, 15/2/20, 29/2/20, 7/3/20 & 14/3/20 .In this regard the ECE department will make the necessary preparations for the conduct to same.



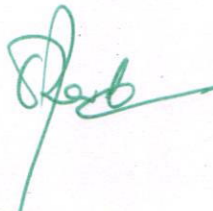
Principal

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## Department of Electronics and Communication Engineering

Academic Year : 2019-2020

Course code &Name: VECE1902 MATLAB Programming

Course duration : 30 hours

### Syllabus

#### Course Objectives:

1. To Impart the Knowledge to the students with MATLAB software.
2. To provide a working introduction to the Matlab technical computing environment.
3. To introduce students the use of a high-level programming language, Matlab.

#### Course Overview:

MATLAB or (Matrix Laboratory) is a high performance fourth generation programming language which is used for technical computing. It provides multi paradigm numerical computing environment and was developed by Math Works. It is used for integrating computation, visualization, and programming so that the programming environment becomes easy to use. The applications of MATLAB are immense. It is a powerful linear algebra tool with a very good collection of toolboxes; therefore it finds applications in research and teaching on domains of robotics and automation.

**Target Audience:** Students of Electronics and Communication Engineering

#### Topics to be covered:

##### Day 1:

- Basics of Matlab and MATLAB Compiler
- The Matlab user interface
- Working with Matlab data types

##### Day2:

- Creating matrices and arrays

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Principal  
Unnamalai Institute of Technology  
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- Operators and control statements
- Using scripts and functions

## Day 3:

- Data import and export
- Using the graphical features
- Programming with simple examples

## Day 4:

- Discussion of Toolboxes with Applications
- Signal Processing Image Acquisition Toolbox

## Day 5:

- Image Processing
- Neural network

## Day 6:

- Fuzzy Logic Toolbox
- Simulink and Hardware Interfacing (Using Kits: Lego, Raspberry Pi, Mind storms etc.)

## Learning Resources and References:

visit the links and refer the books to explore the information given:

- [1] <http://www.eng-tips.com/threadminder.cfm?pid=575>
- [2] <http://www.matlabtutorials.com/mathforum/>
- [3] <http://www.mathworks.in/matlabcentral/>
- [4] <http://www.cfd-online.com/Forums/tags/matlab.html>
- [5] <http://diydrones.com/forum/topic/listForTag?tag=Matlab>

## Course Outcomes:

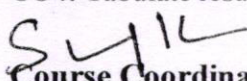
By the end of this course, the student will be able to

CO1: Understand the basics of Matlab

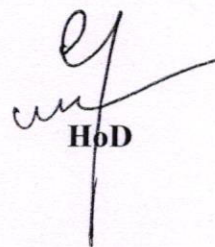
CO2: Break a complex task up into smaller, simpler tasks

CO3: Case Study (Any two Modules)

CO4: Tabulate results and Analyse

  
Course Coordinator



  
HOD

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**Academic Year (2019-2020)**

**Department of Electronics and Communication Engineering**

**Report on**

**“VECE1902 MATLAB Programming”**

<b>Course Title</b>	VECE1902 MATLAB Programming
<b>Department</b>	Electronics and Communication Engineering
<b>Course Coordinator</b>	Ms.G.Sujitha- AP/ECE
<b>Resource Person</b>	Ms. A. Brindha-AP/ECE
<b>Target Audience</b>	II ECE
<b>Total Strength</b>	29 Students
<b>Venue</b>	Seminar Hall
<b>No of Days/Hours</b>	6Days/30 Hours
<b>Dates</b>	25/1/20,1/2/20,15/2/20,29/2/20,7/3/20&14/3/20

In the First Session the resource person started the topic on “Basics of Matlab and Matlab Compiler” in view of Overview, The Matlab user interface, Working with Matlab data types.

The Second session, the resource person started the class on “Creating matrices and arrays”. The detailed explanation of Operators and control statements, Using scripts and functions were explained.

The third session start the resource person started the session on the topic of “Data import and export” A detailed Explanation of Using the graphical features Programming with simple examples were explained.

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Unnamalai Institute of Technology  
Suba Nagar, KOVILPATTI - 628 502.  
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