



REGENT EDUCATION & RESEARCH FOUNDATION GROUP OF INSTITUTIONS

REF: RERFGI/ACADEMIC/2022-23/03

Date: 25/06/2022

NOTICE

This is to inform you that Career and Courses is going to arrange training program on **Basic Knowledge about ASP.NET - Empowering Students in Web Development** from 4th July,2022 to 30th July,2022. The program will be coordinated by Mr. Somnath Mukherjee, HOD of Computer Science & Technology department, RIST. All interested students are requested to register through CNC and attend the programme.

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3. All HODs
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Dr. Rajorshi Bandyopadhyay
Principal, RERFGI



Campus : Regent Education & Research Foundation Group of Institutions

E-mail : rerkolkata@gmail.com, Website : www.rerf.in

Campus Address:

Bara Kanthalia, Barrackpore
P.O: Sewli Telinipara, P.S.: Titagarh
Kolkata - 700 121
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7th Floor, Kolkata - 700 017
Tel.: 033-3221-3013



REGENT EDUCATION & RESEARCH FOUNDATION GROUP OF INSTITUTIONS

REF: RERFGI/ACADEMIC/2022-23/12


Date: 03.01.2023

NOTICE

This is to inform you that Career and Courses is going to arrange training program on **Introduction to AutoCAD - Unlocking Design Excellence for Students** from 7th January,2023 to 25th February,2022. The program will be coordinated by Dr. Rahul Kanti Nath, Assistant Professor of Mechanical Engineering department, RERFGI All interested students are requested to register through CNC and attend the programme.

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REGENT EDUCATION & RESEARCH FOUNDATION GROUP OF INSTITUTIONS

REF: RERFGI/ACADEMIC/2022-23/06



Date: 30/06/2022

NOTICE

This is to inform you that Career and Courses is going to arrange training program on **Basic Knowledge about MATLAB - Unlocking the Power of Computational Excellence** from 5th July, 2022 to 29th July, 2022. The program will be coordinated by Dr. Moumita Pal, Assistant Professor of Electronics & Communication Engineering department, JISCE, Kalyani. All interested students are requested to register through CNC and attend the programme.

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REF: RERFGI/ACADEMIC/2022-23/23

Date: 03/05/2023

NOTICE

It is hereby informed to all the students that a 3day special training programme on “Web Development Fundamentals” will be conducted from 16/05/2023 to 18/05/2023. The programme will be conducted by EDUREKA. Interested candidates are instructed to enrol themselves through T&P Cell

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Principal
Regent Education & Research Foundation
Bara Kanthalia, P.O. -Sewli Telinipara
Barrackpore, Kolkata- 700121

Dr. Samik Chakraborty
Principal, RERFGI

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REGENT EDUCATION & RESEARCH FOUNDATION GROUP OF INSTITUTIONS

REF: RERFGI/ACADEMIC/2022-23/09



Date: 30/12/2022

NOTICE

This is to inform you that Career and Courses is going to arrange training program on **Knowledge about Web Technology - Navigating the Digital Frontier** from 6th January,2023 to 31st January,2023. The program will be coordinated by Mr. Somnath Mukherjee, HOD of Computer Science & Technology department, RIST. All interested students are requested to register through CNC and attend the programme.

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REGENT EDUCATION & RESEARCH FOUNDATION GROUP OF INSTITUTIONS

REF: RERFGI/ACADEMIC/2021-22/02


Date: 30/06/2021

NOTICE

This is to inform you that Career and Courses is going to arrange training program on **Basic Knowledge about ASP.NET - Empowering Students in Web Development** from 5th July, 2021 to 29th July, 2021. The program will be coordinated by Mr. Somnath Mukherjee, HOD of Computer Science & Technology department, RIST. All interested students are requested to register through CNC and attend the programme.

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REGENT EDUCATION & RESEARCH FOUNDATION GROUP OF INSTITUTIONS

REF: RERFGI/ACADEMIC/2021-22/01

Date: 26/06/2021

NOTICE

This is to inform you that Career and Courses is going to arrange training program on **Basic Knowledge about MATLAB - Unlocking the Power of Computational Excellence** from 3th July, 2021 to 27th July, 2021. The program will be coordinated by Dr. Moumita Pal, Assistant Professor of Electronics & Communication Engineering department, JISCE, Kalyani. All interested students are requested to register through CNC and attend the programme.

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REGENT EDUCATION & RESEARCH FOUNDATION GROUP OF INSTITUTIONS

REF: RERFGI/ACADEMIC/2021-22/06

Date: 04.01.2022

NOTICE

This is to inform you that Career and Courses is going to arrange training program on **Knowledge about Web Technology - Navigating the Digital Frontier** from 8th January,2022 to 31st January,2022. The program will be coordinated by Mr. Somnath Mukherjee, HOD of Computer Science & Technology department, RIST. All interested students are requested to register through CNC and attend the programme.

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REF: RERFGI/ACADEMIC/2020-21/02


Date: 01/07/2020

NOTICE

This is to inform you that Career and Courses is going to arrange training program on **Basic Knowledge about ASP.NET-Empowering Students in Web Development** from 6th July, 2020 to 30th July, 2020. The program will be coordinated by Mr. Somnath Mukherjee, HOD of Computer Science & Technology department, RIST. All interested students are requested to register through CNC and attend the programme.

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Dr. Mahuya Das
Principal, RERFGI



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REF: RERFGI/ACADEMIC/2020-21/08


Date: 05/01/2021

NOTICE

This is to inform you that Career and Courses is going to arrange training program on **Introduction to AutoCAD- Unlocking Design Excellence for Students** from 9th January, 2021 to 27th February, 2021. The program will be coordinated by Mr. Sabyasachi Mukherjee, HOD of Mechanical Engineering department, RERFGI. All interested students are requested to register through CNC and attend the programme.

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REF: RERFGI/ACADEMIC/2018-19/19

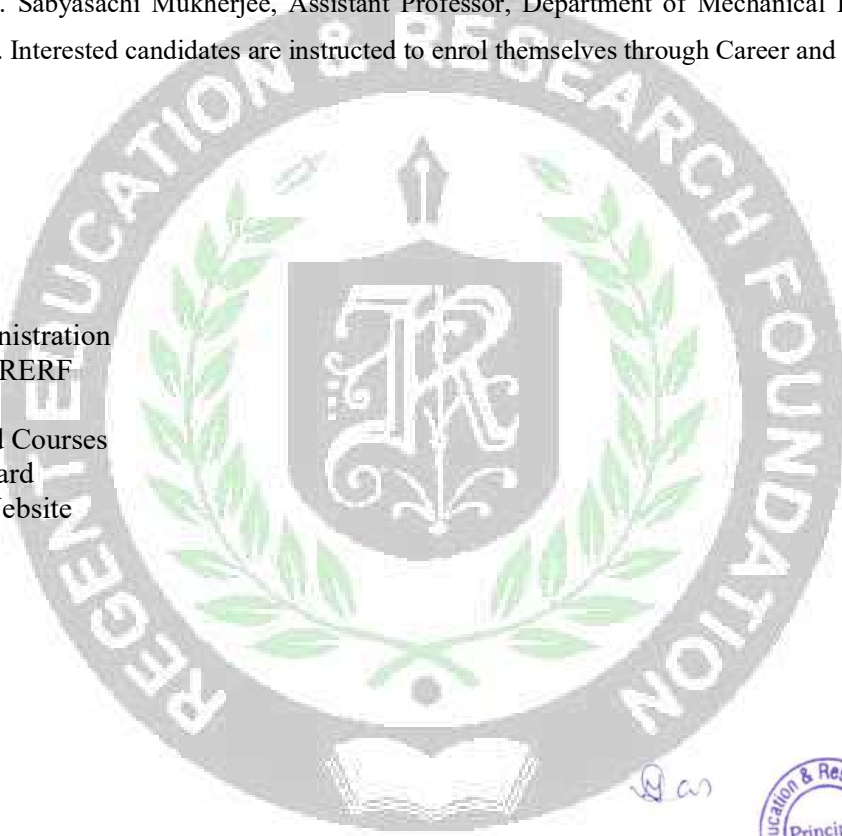
Date: 15/01/2019

NOTICE

It is hereby informed to all the students that an 8 week special training programme on “Introduction to AutoCAD - Unlocking Design Excellence for Students” will be conducted from 22/01/2019 to 12/03/2019. The programme will be conducted by Mr. Sabyasachi Mukherjee, Assistant Professor, Department of Mechanical Engineering, RERF Group of Institutions. Interested candidates are instructed to enrol themselves through Career and Courses.

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Name of Course : **Basic Knowledge about ASP.NET –
Empowering Students in Web Development**

Academic Year : **2022 - 2023**

PROVISIONAL COURSE MODULE

Class-1.1. Introduction to ASP.NET (Duration- 2hrs)

1. What is ASP.NET?
2. ASP.NET Architecture
3. ASP.NET Core vs. ASP.NET Framework

Class-1.2. Setting Up the Development Environment (Duration- 2hrs)

1. Installing Visual Studio (or Visual Studio Code)
2. Creating a New ASP.NET Project

Class-2.1. ASP.NET Web Form (Duration – 2 hrs)

1. Creating Web Forms Applications
2. Working with Server Controls

Class-2.2. ASP.NET Web Form Handling Events (Duration – 2 hrs)

1. Handling User Input
2. Data Validation
3. Event-Driven Programming in Web Forms

Class-3.1. ASP.NET Validation (Duration – 2 hrs)

1. Importance of Data Validation
2. Types of Validation (Client-side vs. Server-side)
3. ASP.NET Validation Controls Overview

Class-3.2. Regular Expressions and Custom Validators (Duration – 2 hrs)

1. Working with Regular Expressions
2. Creating Custom Validation Controls
3. Handling Complex Validation Scenarios

Class-4.1. ASP.NET MVC (Duration: 2 hrs)

1. Introduction to MVC Architecture
2. Creating MVC Projects
3. Controllers, Views, and Models



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4. Routing

Class-4.2. Creating Views (Duration: 2 hrs)

1. Creating and Rendering Views
2. Razor Syntax
3. Layout Views and Partial Views

Class-5.1. ASP.NET Razor (Duration: 2 hrs)

1. Introduction to Razor Pages
2. Creating Razor Pages Applications
3. Razor Syntax
4. Handling Forms in Razor Pages

Class -5.2. Error Handling and Logging in Razor Views (Duration- 2 hrs)

1. Handling Errors in Razor Views
2. Custom Error Pages in Razor
3. Logging Best Practices

Class -6.1. Real-world Applications (Duration- 2 hrs)

1. Applying Validation Techniques to Real-World Projects
2. Case Studies of Validation in Popular Websites
3. Handling Validation in Large-Scale Applications

Class -6.2. Case Studies (Duration- 2 hrs)

1. Building a Web Application.
2. Implementing Security Measures
3. Scaling for High Traffic
4. Integration with External Services

Class -7.1. Career Paths (Duration- 2 hrs)

1. Overview of the module's goals and objectives.
2. Importance of career planning and exploration.
3. Discussion of various job titles and roles in ASP.NET development.
4. Responsibilities and skillsets associated with different roles.

Class -7.2. Opportunities (Duration- 2 hrs)

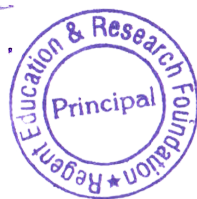
1. Exploration of industries and sectors that heavily rely on ASP.NET development.
2. Case studies of companies or organizations that use ASP.NET.
3. Identifying emerging trends and opportunities.

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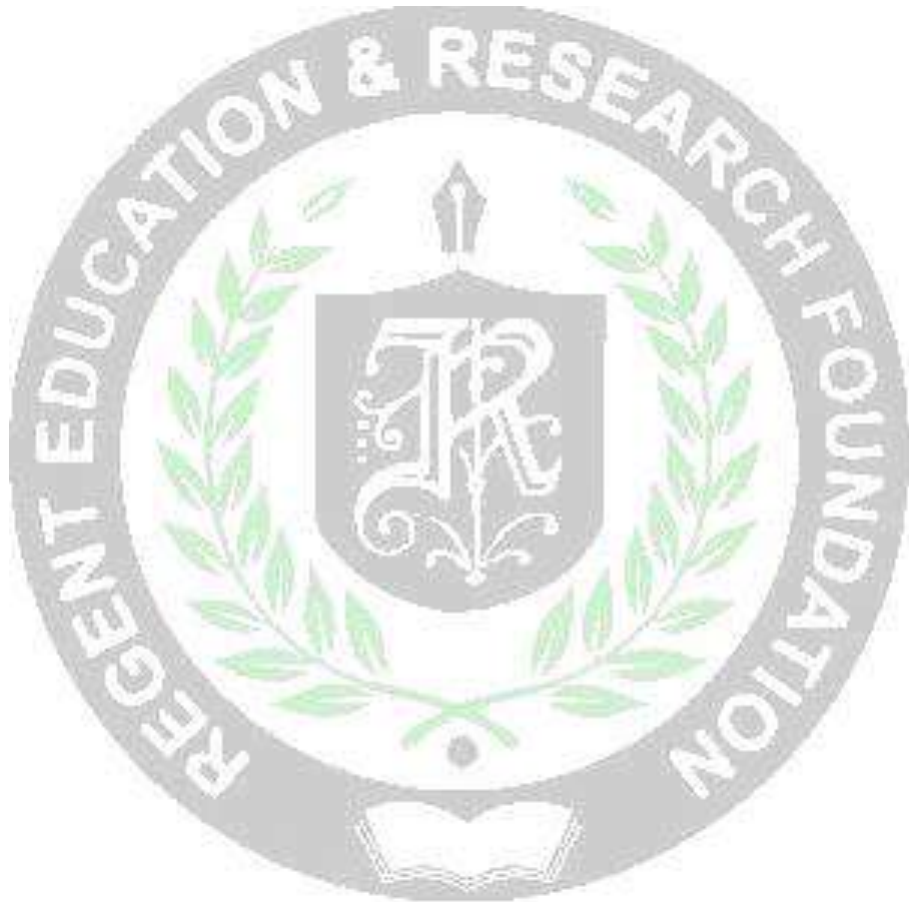


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Class -8.Hands-on Training and Practice (Duration- 4 hrs)

1. Importance of practical skills in ASP.NET development
2. Coding Exercises and Mini-Projects






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Course Name : Introduction to AutoCAD –
Unlocking Design Excellence for Students

Academic Year : 2022 – 2023

Course Curriculum

COURSE MODULE

Total Course Duration (40 Hrs)

Sessions	Topics	Durations
1.1	Basics of CAD	1 hr
1.2	Creating Orthographic drawings	2 hr
1.3	Creating Isometric & Perspective drawings	2 hr
2.1	Modifying Autocad drawings	2 hr
2.2	Creating & editing Hatching utilities /text	3 hr
2.3	Enquire information-List, Id, Distance, Area	
3.1	Dimensioning	2 hr
3.2	Creating & editing blocks	3 hr
3.3	Design centre	
4.1	Xref	2 hr
4.2	Script files	3 hr
4.3	Plotting	

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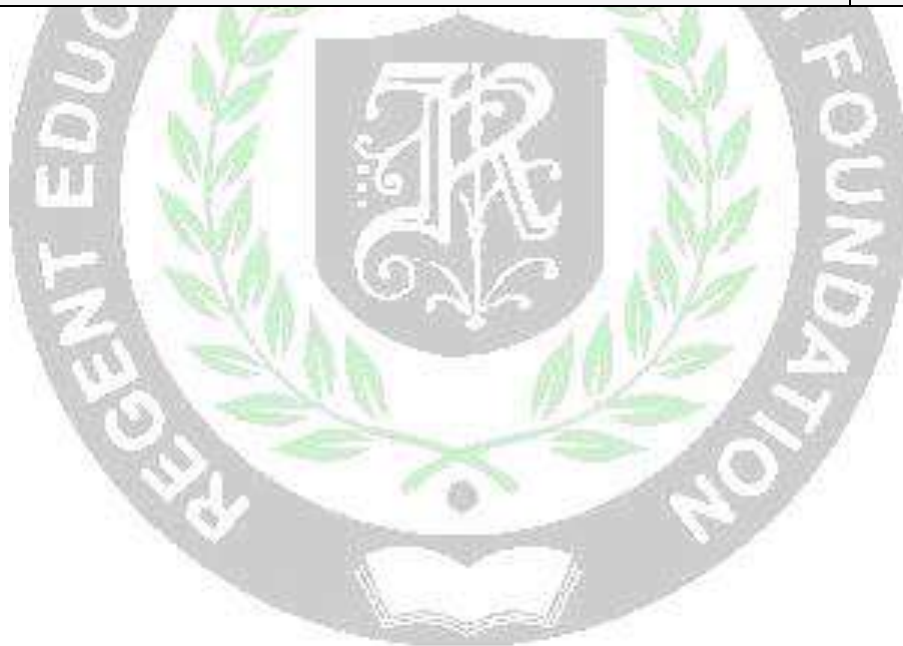
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5.1	3D Modeling Concepts in Autocad	2.5 hr
5.2	Viewpoint & UCS	2.5 hr
6.1	Wireframe Modeling & Editing	2.5 hr
6.2	Solid, Mesh, Surface (Modeling & Editing)	2.5 hr
7.1	Materials, Lights & Rendering	2.5 hr
7.2	Working with Images	2.5 hr
Sessions	Topics	Durations
8.1	Import & Export	3 hr
8.2	Doubt Clearing Class and assessment collection	2 hr






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**Course Name : Basic Knowledge about MATLAB – Unlocking
the Power of Computational Excellence**

Academic Year : 2022 - 2023

Course Curriculum

Objective:

Equip participants with foundational knowledge of MATLAB, enhancing their capabilities and understanding of its functionalities and applications.

Module 1: Introduction to MATLAB

- Overview:
 - An inclusive session that sets the stage for the course, providing participants with an understanding of what to expect.
 - An in-depth introduction to MATLAB, exploring its core features and the significance of its use in computational applications.

Module 2: Foundational Concepts

- Arrays in MATLAB:
 - Understand the critical role of arrays, their creation, manipulation, and application in MATLAB.
- Mathematical Operations:
 - Dive deep into the varied mathematical operations that MATLAB supports, from basic arithmetic to more complex computational

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tasks.

- Conditional Data Selection:
 - Learn the art of selecting specific data under certain conditions, enhancing the capability to handle and process data effectively.
- Working with Tables of Data:
 - Explore the functionalities associated with table data in MATLAB, understanding how to create, modify, and use tables effectively.
- Assessment I

Module 3: Practical Insights and Application

- Hands-on Training and Practice:
 - Engage in practical exercises that reinforce learning and provide a real feel of MATLAB's capabilities.
- Assessment II
- Real-world Applications:
 - Delve into real-world scenarios where MATLAB shines, understanding its relevance and application in various industries and research areas.

Module 4: Exploring Further with MATLAB

- Career Paths and Opportunities:
 - Discover the potential career avenues and opportunities that expertise in MATLAB can open up, from roles in academia to positions in cutting-edge industries.
- Assessment III

Course Outcome: By the end of this course, participants will have a robust understanding of MATLAB, its functionalities, and its vast applications, paving the way for them to explore and leverage its capabilities further.

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Course Name : Web Development Fundamentals Workshop

Academic Year : 2022 - 2023

PROVISIONAL COURSE MODULE

Class-1. Introduction to HTML (Duration- 4hrs)

1. Understanding HTML: Structure and syntax.
2. Creating a basic HTML document.
3. HTML elements, tags, and attributes.
4. Document structure: Head and body sections.
5. Creating web forms.
6. Input elements: Textboxes, radio buttons, checkboxes, and dropdowns.
7. Quiz

Class-2.CSS (Duration- 4hrs)

1. Introduction to CSS (Cascading Style Sheets).
2. Inline vs. internal vs. external CSS.
3. CSS selectors and properties.
4. Styling text, fonts, colors, and backgrounds.
5. Box model: Margins, padding, and borders.
6. Quiz

Class-3. JavaScript (Duration – 4 hrs)

1. Introduction to JavaScript.
2. Variables, data types, and operators.
3. Control structures: Conditional statements and loops.
4. Primitive Data Type
5. Non-Primitive Data Type
6. Quiz

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Web Development Fundamentals Course Layout

HTML (Day 1)


- . HTML – Tags
- HTML - Elements
- HTML - Input Tags
- HTML -Forms
- HTML - Tables and List Tags
- HTML- Links and Container Tags
- HTML - Quiz

CSS (Day 2)

- Introduction to CSS
- CSS - Selectors
- CSS - Properties
- CSS -Box Model
- CSS- Quiz

JavaScript (Day 3)

- Java Script – Introduction
- Java Script - Data Types
- Data - Type (1) - Primitive Data Type
- Data -Type (2) - Non-Primitive Data Type


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- Java Script - Quiz

Course Name:- Web Development Fundamentals

Course Outcome:-

The course covers HTML, CSS, and JavaScript as it presents the principles of web building. Students will gain knowledge of responsive design principles, how to add interactive elements, and how to develop static websites. They will learn how to build web layouts, style web pages, and add fundamental functionality, which will get them ready for more difficult web development Courses.


Principal
Regent Education & Research Foundation
Bara Kanthalia, P.O -Sewli Telinipara
Barrackpore, Kolkata- 700121



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Course Name : Knowledge about Web Technology –

Navigating the Digital Frontier

Academic Year : 2022 - 2023

PROVISIONAL COURSE MODULE

Class-1.1. Overview of Web Technology (Duration- 2hrs)

1. Overview of the web technology landscape
2. Historical perspective and evolution of the web
3. Introduction to web browsers and web servers

Class-1.2. Setting Up the Development Environment (Duration- 2hrs)

1. Installing Visual Studio (or Visual Studio Code)
2. Creating a New Project

Class-2.1. Web Development (Duration – 2 hrs)

1. Overview of the course objectives and content.
2. Historical perspective on the evolution of web development and design.
3. The importance of user-centered design.

Class-2.2. Design Principles (Duration – 2 hrs)

1. The importance of responsive design
2. Media queries and breakpoints
3. Fluid grids and flexible layouts
4. Testing and optimizing for different devices

Class-3.1. Computer Graphics (Duration – 2 hrs)

1. Overview of the course objectives and content
2. Historical perspective and evolution of computer graphics
3. The role of graphics in web technology

Class-3.2. Graphics Creation and Editing (Duration – 2 hrs)

1. Creating and editing graphics for web use.
2. Vector graphics vs. raster graphics.



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3. Graphic design principles and aesthetics.
4. Color theory and management.

Class-4.1. HTML (Duration: 2 hrs)

1. Understanding HTML: Structure and syntax.
2. Creating a basic HTML document.
3. HTML elements, tags, and attributes.
4. Document structure: Head and body sections.

Class-4.2. HTML Forms and Input Elements (Duration: 2 hrs)

1. Creating web forms.
2. Input elements: Textboxes, radio buttons, checkboxes, and dropdowns.
3. Form submission and data handling.

Class-5.1. CSS (Duration: 2 hrs)

1. Introduction to CSS (Cascading Style Sheets).
2. Inline vs. internal vs. external CSS.
3. CSS selectors and properties.
4. Styling text, fonts, colors, and backgrounds.

Class -5.2. Styling Web Pages with CSS (Duration- 2 hrs)

1. Box model: Margins, padding, and borders.
2. Positioning and layout: Floats and positioning.
3. Creating responsive web design with media queries.

Class -6.1. JAVA Script (Duration- 2 hrs)

1. Introduction to JavaScript.
2. Variables, data types, and operators.
3. Control structures: Conditional statements and loops.
4. Functions and event handling.

Class -6.2. JavaScript for Interactivity (Duration- 2 hrs)

1. DOM (Document Object Model) manipulation.
2. Handling user events (e.g., click, mouseover).
3. Introduction to JavaScript libraries and frameworks (e.g., jQuery).

Class -7.1. Career Paths (Duration- 2 hrs)

1. Overview of the module's goals and objectives.
2. Importance of career planning and exploration.
3. Discussion of various job titles and roles in Web Technology.
4. Responsibilities and skillsets associated with different roles.



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Class -7.2. Opportunities (Duration- 2 hrs)

1. Exploration of industries and sectors that heavily rely on Web Technology development.
2. Case studies of companies or organizations that use Web Technology.
3. Identifying emerging trends and opportunities.

Class -8.1. Digital Marketing (Duration- 2 hrs)

1. Overview of the course objectives and content.
2. Historical perspective on marketing in the digital age.
3. Key digital marketing concepts and terminology.

Class -8.2. E-commerce (Duration- 2 hrs)

1. Overview of the course objectives and content.
2. Historical evolution of e-commerce.
3. E-commerce business models and trends.



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**Course Name : Workshop Curriculum on Different layered
Concrete structure work on environmental
Aspects in Structural Engineering**

Academic Year : 2022 - 2023

Course Curriculum



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DEPARTMENT OF CIVIL ENGINEERING

3DAYS WORKSHOP PROGRAM ON

Different layered Concrete structure work on environmental aspects in Structural Engineering

November 3rd, 4th and 5th 2022

Days	Time	Program		Time	Program
3.11.2022	10:00am-10:30pm	Inauguration	BREAK	2:00pm-4:30pm	Tests on Cements
	10:30am-1:00pm	Seminar on "Concrete and its types"		4:30pm-5:00pm	Discussion
4.11.2022	10:00am-1:00pm	Seminar on "Properties of Concrete"		2:00pm-4:30pm	Mix Design Calculations
				4:30pm-5:00pm	Discussion
5.11.2022	10:00am-1:00pm	Tests on workability of Concrete		2:00pm-4:00pm	Cube casting and Sample cube testing
				4:00pm-4:30pm	Discussion
			4:30pm-5:00pm	Felicitation and Vote of thanks	

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Course Name : Basic Knowledge about ASP.NET –
Empowering Students in Web Development

Academic Year : 2021 - 2022

PROVISIONAL COURSE MODULE

Class-1.1. Introduction to ASP.NET (Duration- 2hrs)

1. What is ASP.NET?
2. ASP.NET Architecture
3. ASP.NET Core vs. ASP.NET Framework

Class-1.2. Installation (Duration- 2hrs)

1. Installing Visual Studio (or Visual Studio Code)
2. Creating a New ASP.NET Project

Class-2.1. ASP.NET Web Form (Duration – 2 hrs)

1. Creating Web Forms Applications
2. Working with Server Controls

Class-2.2. Data Access with Web Forms (Duration – 2 hrs)

1. Connecting to Databases
2. Displaying Data with Data Controls
3. Data Binding
4. Data Source Controls

Class-3.1. ASP.NET Validation (Duration – 2 hrs)

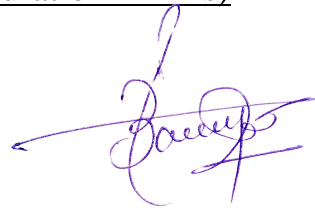

1. Importance of Data Validation
2. Types of Validation (Client-side vs. Server-side)
3. ASP.NET Validation Controls Overview

Class-3.2. Regular Expressions and Custom Validators (Duration – 2 hrs)

1. Working with Regular Expressions
2. Creating Custom Validation Controls
3. Handling Complex Validation Scenarios

Class-4.1. ASP.NET MVC (Duration: 2 hrs)

1. Introduction to MVC Architecture
2. Creating MVC Projects

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3. Controllers, Views, and Models
4. Routing

Class-4.2. Handling Forms and User Input (Duration: 2 hrs)

1. HTML Forms in MVC
2. Form Submission and Model Binding
3. Data Annotations and Validation

Class-5.1. ASP.NET Razor (Duration: 2 hrs)

1. Introduction to Razor Pages
2. Creating Razor Pages Applications
3. Razor Syntax
4. Handling Forms in Razor Pages

Class -5.2. Forms and User Input Handling (Duration- 2 hrs)

1. HTML Forms in Razor
2. Handling Form Submissions
3. Model Binding with Forms
4. Validation with Razor

Class -6.1. Real-world Applications (Duration- 2 hrs)

1. Applying Validation Techniques to Real-World Projects
2. Case Studies of Validation in Popular Websites
3. Handling Validation in Large-Scale Applications

Class -6.2. Case Studies (Duration- 2 hrs)

1. Building a Web Application.
2. Implementing Security Measures
3. Scaling for High Traffic
4. Integration with External Services

Class -7.1. Career Paths (Duration- 2 hrs)

1. Overview of the module's goals and objectives.
2. Importance of career planning and exploration.
3. Discussion of various job titles and roles in ASP.NET development.
4. Responsibilities and skillsets associated with different roles.

Class -7.2. Opportunities (Duration- 2 hrs)

1. Exploration of industries and sectors that heavily rely on ASP.NET development.
2. Case studies of companies or organizations that use ASP.NET.

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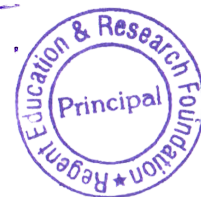
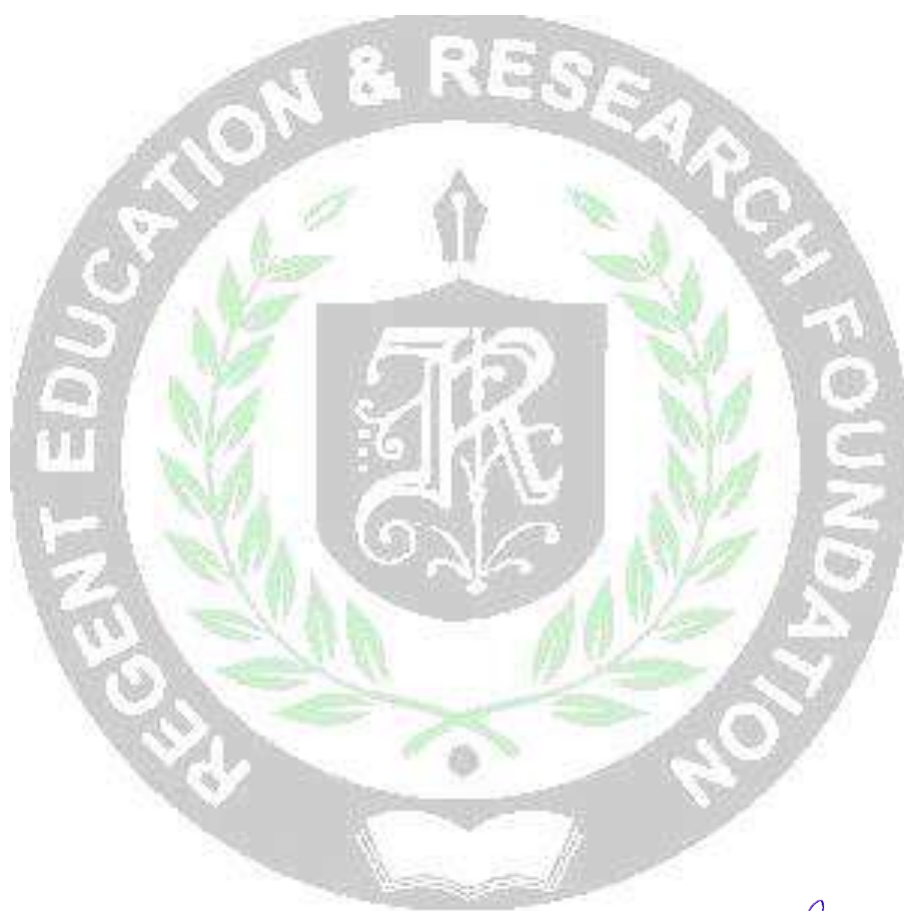
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3. Identifying emerging trends and opportunities.

Class -8.Hands-on Training and Practice (Duration- 4 hrs)

1. Importance of practical skills in ASP.NET development
2. Coding Exercises and Mini-Projects



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REGENT EDUCATION & RESEARCH FOUNDATION GROUP OF INSTITUTIONS

Course Name : **Basic Knowledge about MATLAB – Unlocking
the Power of Computational Excellence**

Academic Year : **2021 - 2022**

Course Curriculum

Objective:

To familiarize participants with the fundamentals of MATLAB, instilling the knowledge and skills needed for computational tasks and applications.

Module 1: Kickstarting the MATLAB Journey

- Inaugural Session:

- A warm welcome to participants, outlining the course's objectives, benefits, and the journey ahead.
- A thorough introduction to MATLAB, addressing its core functionalities and its significance in computational domains.

Module 2: Building Blocks of MATLAB

- Exploring Arrays in MATLAB:

- Unravel the nuances of arrays in MATLAB, including their creation, manipulation, and practical applications.

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- Diving into Mathematical Operations:
 - Gain proficiency in MATLAB's varied mathematical capabilities, ranging from basic arithmetic to complex computations.
- Mastering Conditional Data Selection:
 - Equip oneself with techniques to selectively process data based on predefined conditions, enhancing data handling prowess.
- Harnessing Tables for Data Management:
 - Delve into MATLAB's table functionalities, learning to organize, modify, and extract data seamlessly.
- Assessment I

Module 3: Enhancing MATLAB Skills through Practice

- Interactive Hands-on Sessions:
 - Engage in hands-on training sessions to solidify the understanding of MATLAB and refine practical skills.
- Venturing into Real-world MATLAB Applications:
 - Understand the diverse real-world scenarios where MATLAB is applied, enriching one's perspective on its versatility and relevance.
- Assessment II

Module 4: Expanding Horizons with MATLAB

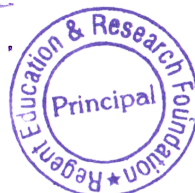
- Unveiling Career Opportunities:
 - Envision the myriad career trajectories available with MATLAB expertise, from specialized roles in tech companies to research-intensive positions.
- Assessment III

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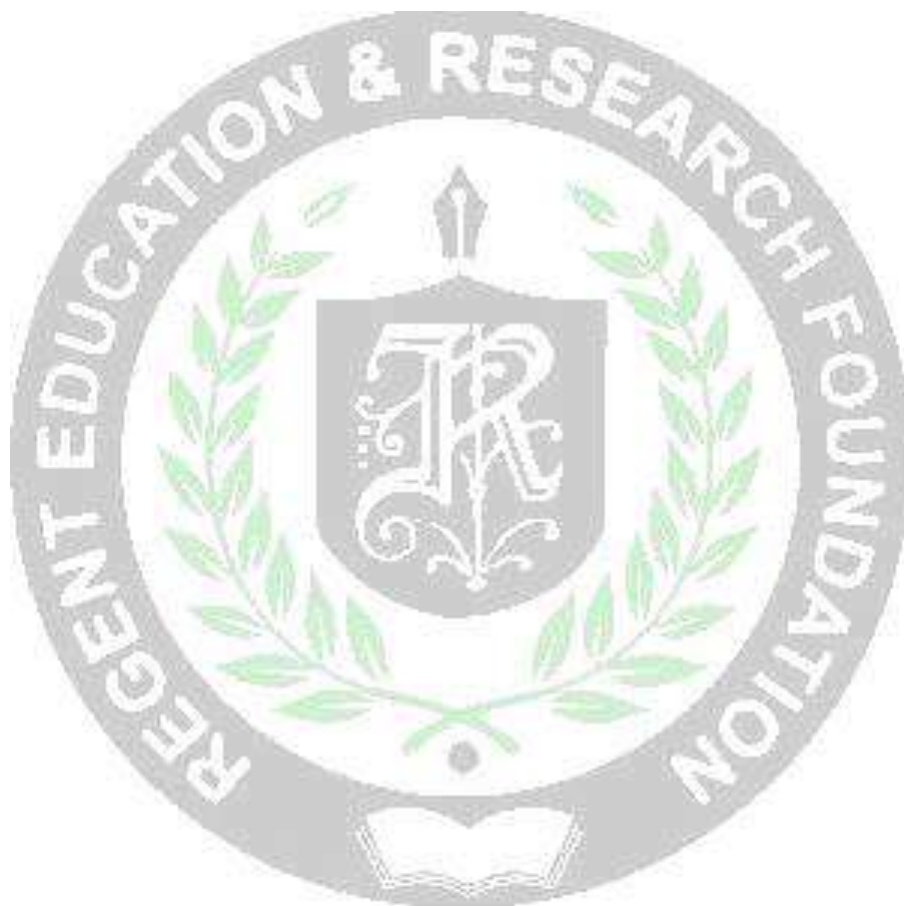
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Course Outcome: Upon completion of this course, participants will be well-equipped with the foundational and advanced skills in MATLAB, positioning them advantageously in tech and research domains.






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Course Name : Knowledge about Web Technology –
Navigating the Digital Frontier

Academic Year : 2021 - 2022

PROVISIONAL COURSE MODULE

Class-1.1. Overview of Web Technology (Duration- 2hrs)

1. Overview of the web technology landscape
2. Historical perspective and evolution of the web
3. Introduction to web browsers and web servers

Class-1.2. Setting Up the Development Environment (Duration- 2hrs)

1. Installing Visual Studio (or Visual Studio Code)
2. Creating a New Project

Class-2.1. Web Development (Duration – 2 hrs)

1. Overview of the course objectives and content.
2. Historical perspective on the evolution of web development and design.
3. The importance of user-centered design.

Class-2.2. Design Principles (Duration – 2 hrs)

1. Principles of effective web design.
2. Typography, color theory, and visual hierarchy.
3. Current web design trends and aesthetics.

Class-3.1. Computer Graphics (Duration – 2 hrs)

1. Overview of the course objectives and content
2. Historical perspective and evolution of computer graphics
3. The role of graphics in web technology

Class-3.2. Optimizing Graphics for the Web (Duration – 2 hrs)

1. Reducing image file sizes for web optimization.



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2. Compression techniques and tools.
3. Strategies for improving loading times.
4. Retina and HiDPI graphics.

Class-4.1. HTML (Duration: 2 hrs)

1. Understanding HTML: Structure and syntax.
2. Creating a basic HTML document.
3. HTML elements, tags, and attributes.
4. Document structure: Head and body sections.

Class-4.2. HTML Forms and Input Elements (Duration: 2 hrs)

1. Creating web forms.
2. Input elements: Textboxes, radio buttons, checkboxes, and dropdowns.
3. Form submission and data handling.

Class-5.1. CSS (Duration: 2 hrs)

1. Introduction to CSS (Cascading Style Sheets).
2. Inline vs. internal vs. external CSS.
3. CSS selectors and properties.
4. Styling text, fonts, colors, and backgrounds.

Class -5.2. Styling Web Pages with CSS (Duration- 2 hrs)

1. Box model: Margins, padding, and borders.
2. Positioning and layout: Floats and positioning.
3. Creating responsive web design with media queries.

Class -6.1. JAVA Script (Duration- 2 hrs)

1. Introduction to JavaScript.
2. Variables, data types, and operators.
3. Control structures: Conditional statements and loops.
4. Functions and event handling.

Class -6.2. JavaScript Libraries and Frameworks (Duration- 2 hrs)

1. Introduction to JavaScript libraries (e.g., jQuery).
2. Overview of popular JavaScript frameworks (e.g., React, Angular, Vue.js).
3. Benefits and use cases of libraries and frameworks.

Class -7.1. Career Paths (Duration- 2 hrs)

1. Overview of the module's goals and objectives.
2. Importance of career planning and exploration.
3. Discussion of various job titles and roles in Web Technology.



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4. Responsibilities and skillsets associated with different roles.

Class -7.2. Opportunities (Duration- 2 hrs)

1. Exploration of industries and sectors that heavily rely on Web Technology development.
2. Case studies of companies or organizations that use Web Technology.
3. Identifying emerging trends and opportunities.

Class -8.1. Digital Marketing (Duration- 2 hrs)

1. Overview of the course objectives and content.
2. Historical perspective on marketing in the digital age.
3. Key digital marketing concepts and terminology.

Class -8.2. E-commerce (Duration- 2 hrs)

1. Overview of the course objectives and content.
2. Historical evolution of e-commerce.
3. E-commerce business models and trends.



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Course Name : Fundamentals of Python technology

Academic Year : 2021 – 2022

Provisional Course Module

Class-1.1. Getting Started (Duration- 2hrs)

(Total Course Duration- 52 hrs.)

1. Introduction
2. Getting started with Python
3. Installation of python
4. Python installation and differences in windows and Linux platform

Class-1.2.Data types and basic layout of the program (Duration- 2hrs)

1. Variables and data types
2. Operations with data types
3. Numeric data types of python
4. Operators in python
5. String operators

Class-2.1. Program flow control with if else structure (Duration – 2 hrs)

1. Introduction to blocks and statements
2. if else statement.
3. if elif statement.
4. Use of conditional operators in the program flow.
5. Use of logical operators in the program flow.
6. Nested if else structure.
7. Program based on the structure.

Class-2.2. Program flow control with the loop structure (Duration – 2 hrs)

1. For loop concept.
2. While loop concept.
3. Else clause both in the for and while loop.
4. Break and continue statements inside the loop.



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5. Concept of nested looping
6. Example programs based on the structure of looping.




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Class-3.1. Concept of List(Duration – 2 hrs)

1. Introduction to sequence types
2. LIST definition.
3. Operations on list.
4. Iteration through the list using different loop structures.
5. Nested LIST structure.
6. Common functions used with the list structure.
7. Example programs like sorting, searching in the list structure.

Class-3.2. Concept of Tuple(Duration – 2 hrs)

1. TUPLE definition.
2. Operations on Tuple.
3. Iteration through the Tuple using different loop structures.
4. Nested TUPLE structures.
5. Common functions used with the Tuple structure.
6. Example programs like sorting, searching in the Tuple structure.

Class-4.1. Dictionary (Duration: 2 hrs)

1. Definition of Dictionary.
2. Iterations over dictionary.
3. Different operations on dictionary.
4. Shallow and deep copies in dictionary.
5. Dictionary updation.

Class-4.2. Dictionary in more broader sense (Duration: 2 hrs)

1. Different dictionary functions.
2. Nested dictionary.
3. Dictionary with the numeric and nonnumeric key values.
4. Examples of dictionary implementation.




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Class-5.1.concept of set sequence (Duration: 2 hrs)

1. Introduction to set and python set.
2. Set membership.
3. Different operations on the set.
4. Concept of subsets and supersets in python.
5. Implementation of set concept and its different operations in python.
6. More example programs using python.

Class -5.2. String handling (Duration- 2 hrs)

1. Concept of string.
2. Concept of index used in the string.
3. Different operations on the string.
4. Use of different loop structure involving string.

Class -6.1. String handling (Duration- 2 hrs)

1. Different string functions
2. Syntax and usages of different string functions.
3. Working of the string with other data a structures like list, tuple etc.
4. Sample examples of string handling showing applications of all the functions

Class -6.2. Functions (Duration- 2 hrs)

1. Introduction to functions.
2. Function definition and calling.
3. Function returning value.
4. Sample programs based on the functions.

Class -7.1. Functions extended (Duration- 2 hrs)

1. Functions with different parameters.
2. Functions with variable number of arguments.
3. Function with the default values.
4. Passing arguments like the lists, tuples etc into the functions.
5. Some examples of functions.

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Class -7.2. File handling in python (Duration- 2 hrs)

1. Introduction to the Input and output of python.
2. Concept of file.
3. Reading and writing the text files.
4. Appending in the file.
5. Binary file concept.
6. Examples of files handling

Class -8.1. File handling in python Extended (Duration- 2 hrs)

1. Concept of shelves
2. Updating with shelves
3. Python programs for insertion, deletion and updation of records into the file.
4. Creation of any file and performing all sorts of operations on the file.

Class -8.2. Modules in python (Duration- 2 hrs)

1. Introduction to the module
2. Importing the module.
3. Standard python libraries.
4. Web browser modules
5. Example programs based on the modules.

Class -9.1. Modules in python extended (Duration – 2 hrs)

1. Introduction to Tkinter
2. Tkinter- Pack geometry manager
3. Tkinter- Grid geometry manager
4. Namespace concept.
5. GUI examples
6. Sample examples based on the concepts of modules.

Class -9.2. Object oriented programming(Duration – 2 hrs)

1. Introduction to class and object concept.
2. Concept of constructor and instances.
3. Class attributes.
4. Concept of methods.
5. Sample programs based on the object oriented paradigm.




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Class – 10.1. Object oriented programming extended (Duration – 2 hrs)

1. Concept of polymorphism.
2. Function overloading and overriding concepts in python.
3. Getters and setters methods.
4. Concepts of inheritance.
5. Sample programs based on the object oriented paradigms.

Class – 10.2. Object oriented programming extended (Duration – 2 hrs)

1. Different types of inheritance structures.
2. Examples based on the different types of inheritances.
3. Concept of the super method.
4. Polymorphism.
5. Sample programs based on the object oriented paradigms.

Class – 11.1. Concept of database(Duration – 2 hrs)

1. Introduction to database.
2. Database terminologies.
3. SQLite installations.
4. Introduction to SQLite
5. Order by and joins clauses.
6. Complex joining.
5. Wild card characters and views.

Class – 11.2. Concept of database extended(Duration – 2 hrs)

1. Order by and joins.
2. Complex joins.
3. SQL in python.
4. Connections, Cursors and Transactions.
5. SQL Injection attacks.
6. Basic SQL queries.

Class -12.1. SQL statements used in the python (Duration – 2 hrs)

1. SQL in python
2. Different SQL statements and connection strings
3. Python programs on fetching of data, updation in the table and deletion from the table.
4. Examples of more such programs related to the database transaction



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Class -12.2. Exception handling (Duration – 2 hrs)

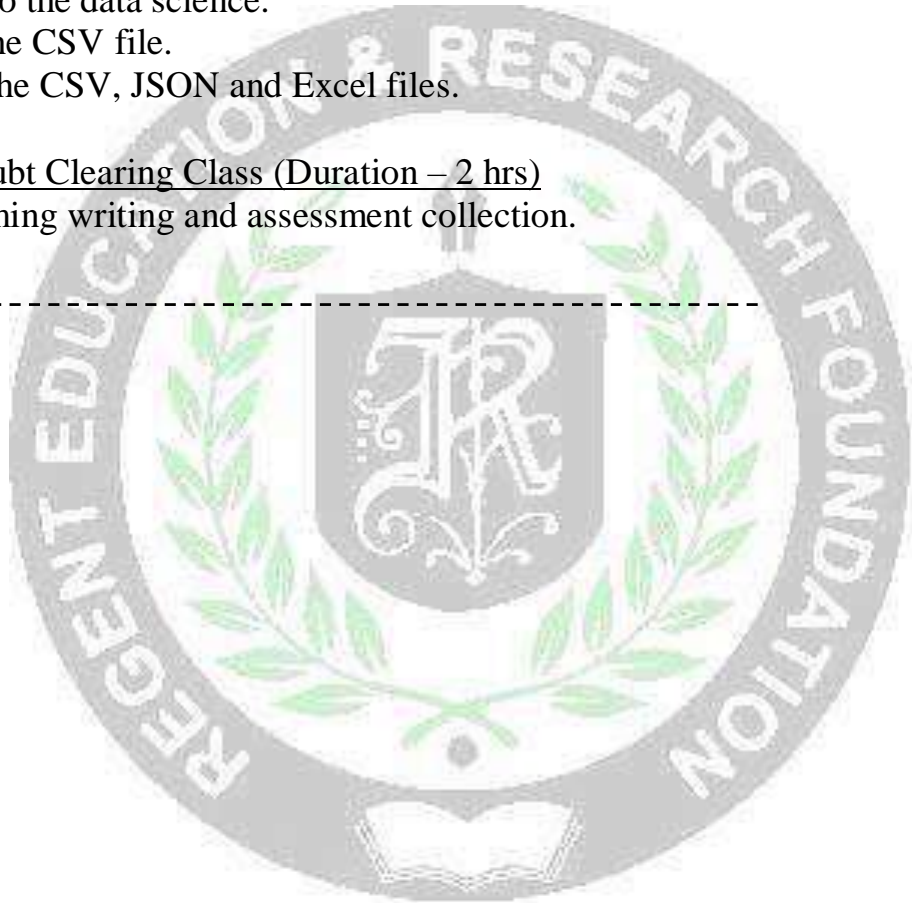
1. Introduction to the Exception.
2. Different exception blocks
3. Raising exceptions.
4. Custom exceptions.

Class -13.1. Python in data management(Duration – 2 hrs)

1. Introduction to the data science.
2. Concept of the CSV file.
3. Python with the CSV, JSON and Excel files.

Class -13.2. Doubt Clearing Class (Duration – 2 hrs)

1. Programming writing and assessment collection.



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REGENT EDUCATION & RESEARCH FOUNDATION GROUP OF INSTITUTIONS

Course Name : Introduction to AutoCAD –
Unlocking Design Excellence for Students

Academic Year : 2021 – 2022

Course Curriculum

COURSE MODULE

Total Course Duration (40 Hrs)

Sessions	Topics	Durations
1.1	Basics of CAD	1 hr
1.2	Creating Orthographic drawings	2 hr
1.3	Creating Isometric & Perspective drawings	2 hr
2.1	Modifying Autocad drawings	2 hr
2.2	Creating & editing Hatching utilities /text	3 hr
2.3	Enquire information-List, Id, Distance, Area	
3.1	Dimensioning	2 hr
3.2	Creating & editing blocks	3 hr
3.3	Design centre	
4.1	Xref	2 hr
4.2	Script files	3 hr
4.3	Plotting	

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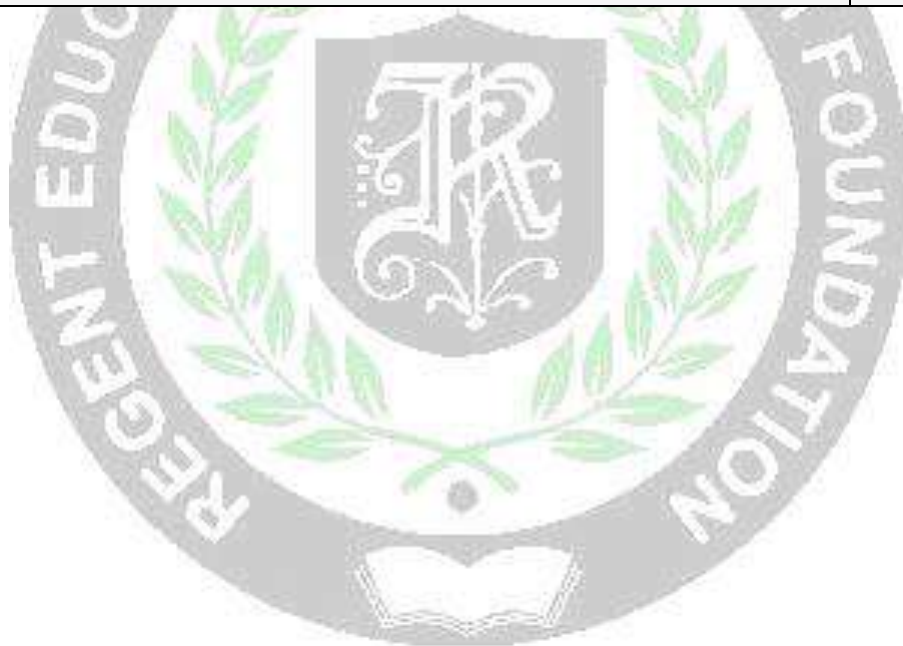
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5.1	3D Modeling Concepts in Autocad	2.5 hr
5.2	Viewpoint & UCS	2.5 hr
6.1	Wireframe Modeling & Editing	2.5 hr
6.2	Solid, Mesh, Surface (Modeling & Editing)	2.5 hr
7.1	Materials, Lights & Rendering	2.5 hr
7.2	Working with Images	2.5 hr
Sessions	Topics	Durations
8.1	Import & Export	2.5 hr
8.2	Doubt Clearing Class and assessment collection	2.5 hr






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**Course Name: Basic Knowledge about ASP.NET - Empowering Students
in Web Development**

Academic Year : 2020 - 2021

PROVISIONAL COURSE MODULE

Class-1.1. Introduction to ASP.NET (Duration- 2hrs)

1. What is ASP.NET?
2. ASP.NET Architecture
3. ASP.NET Core vs. ASP.NET Framework

Class-1.2. Setting Up the Development Environment (Duration- 2hrs)

1. Installing Visual Studio (or Visual Studio Code)
2. Creating a New ASP.NET Project

Class-2.1. ASP.NET Web Form (Duration – 2 hrs)

1. Creating Web Forms Applications
2. Working with Server Controls

Class-2.2. ASP.NET Web Form Handling Events (Duration – 2 hrs)

1. Handling User Input
2. Data Validation
3. Event-Driven Programming in Web Forms

Class-3.1. ASP.NET Validation (Duration – 2 hrs)

1. Importance of Data Validation
2. Types of Validation (Client-side vs. Server-side)
3. ASP.NET Validation Controls Overview

Class-3.2. Security and Validation (Duration – 2 hrs)

1. Security Considerations in Data Validation
2. Input Sanitization and Validation
3. Protecting Against SQL Injection and XSS Attacks

Class-4.1. ASP.NET MVC (Duration: 2 hrs)

1. Introduction to MVC Architecture
2. Creating MVC Projects
3. Controllers, Views, and Models



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4. Routing

Class-4.2. Creating Controllers (Duration: 2 hrs)

1. Creating and Configuring Controllers
2. Actions and Action Results
3. Routing in MVC

Class-5.1. ASP.NET Razor (Duration: 2 hrs)

1. Introduction to Razor Pages
2. Creating Razor Pages Applications
3. Razor Syntax
4. Handling Forms in Razor Pages

Class -5.2. Error Handling and Logging in Razor Views (Duration- 2 hrs)

1. Handling Errors in Razor Views
2. Custom Error Pages in Razor
3. Logging Best Practices

Class -6.1. Real-world Applications (Duration- 2 hrs)

1. Applying Validation Techniques to Real-World Projects
2. Case Studies of Validation in Popular Websites
3. Handling Validation in Large-Scale Applications

Class -6.2. Case Studies (Duration- 2 hrs)

1. Building a Web Application.
2. Implementing Security Measures
3. Scaling for High Traffic
4. Integration with External Services

Class -7.1. Career Paths (Duration- 2 hrs)

1. Overview of the module's goals and objectives.
2. Importance of career planning and exploration.
3. Discussion of various job titles and roles in ASP.NET development.
4. Responsibilities and skillsets associated with different roles.

Class -7.2. Opportunities (Duration- 2 hrs)

1. Exploration of industries and sectors that heavily rely on ASP.NET development.
2. Case studies of companies or organizations that use ASP.NET.
3. Identifying emerging trends and opportunities.

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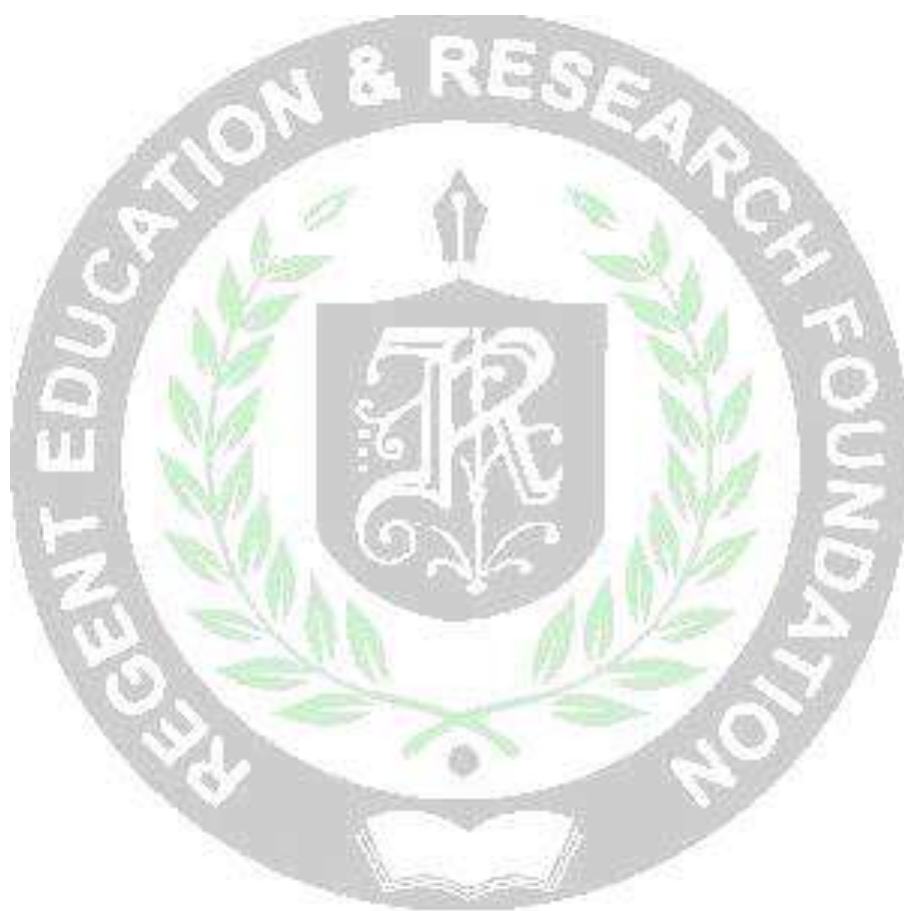


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Class -8.Hands-on Training and Practice (Duration- 4 hrs)

1. Importance of practical skills in ASP.NET development
2. Coding Exercises and Mini-Projects






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REGENT EDUCATION & RESEARCH FOUNDATION GROUP OF INSTITUTIONS

Course Name : Introduction to AutoCAD –

Unlocking Design Excellence for Students

Academic Year : 2020 – 2021

Course Curriculum

COURSE MODULE

Total Course Duration (40 Hrs)

Sessions	Topics	Durations
1.1	Basics of CAD	1 hr
1.2	Creating Orthographic drawings	2 hr
1.3	Creating Isometric & Perspective drawings	2 hr
2.1	Modifying Autocad drawings	2 hr
2.2	Creating & editing Hatching utilities /text	3 hr
2.3	Enquire information-List, Id, Distance, Area	
3.1	Dimensioning	2 hr
3.2	Creating & editing blocks	3 hr
3.3	Design centre	
4.1	Xref	2 hr
4.2	Script files	3 hr
4.3	Plotting	
5.1	3D Modeling Concepts in Autocad	2.5 hr

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5.2	Viewpoint & UCS	2.5 hr
6.1	Wireframe Modeling & Editing	2.5 hr
6.2	Solid, Mesh, Surface (Modeling & Editing)	2.5 hr
7.1	Materials, Lights & Rendering	2.5 hr
7.2	Working with Images	2.5 hr
Sessions	Topics	Durations
8.1	Import & Export	2.5 hr
8.2	Doubt Clearing Class and assessment collection	2.5 hr






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REGENT EDUCATION & RESEARCH FOUNDATION GROUP OF INSTITUTIONS

Course Name : Introduction to AutoCAD –
Unlocking Design Excellence for Students

Academic Year : 2018 – 2019

Course Curriculum

COURSE MODULE

Total Course Duration (40 Hrs)

Sessions	Topics	Durations
1.1	Basics of CAD	1 hr
1.2	Creating Orthographic drawings	2 hr
1.3	Creating Isometric & Perspective drawings	2 hr
2.1	Modifying Autocad drawings	2 hr
2.2	Creating & editing Hatching utilities /text	3 hr
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3.1	Dimensioning	2 hr
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3.3	Design centre	
4.1	Xref	2 hr
4.2	Script files	

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4.3	Plotting	3 hr
5.1	3D Modeling Concepts in Autocad	2.5 hr
5.2	Viewpoint & UCS	2.5 hr
6.1	Wireframe Modeling & Editing	2.5 hr
6.2	Solid, Mesh, Surface (Modeling & Editing)	2.5 hr
7.1	Materials, Lights & Rendering	2.5 hr
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Sessions	Topics	Durations
8.1	Import & Export	2.5 hr
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