Small Project: Syllabus for Mvoc 2nd sem

<> syllabus.html ●   <> syllabusimg.html

igntu > <> syllabus.html > ⬡ html

```html
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>document</title>
    <style>
        header {
            height: 160px;
            width: 99vw;
            background: whitesmoke;
        }

        .dep {
            float: right;
            font-size: 2.5rem;
            color: green;
            font-weight: bolder;
            text-shadow: 3px 0px 1px rgb(10, 192, 53);
            margin-right: 50px;
        }

        .nav {
            width: 100%;

            height: 80px;
            background: rgb(13, 38, 79);
            font-size: 3rem;
            text-align: center;
            color: azure;
            word-spacing: 6px;
            }

        main {
            margin: 10px;
            padding: 10px;
            width: 100%;
            height: 300px;
        }

        .info>p {
            background: linear-gradient(90deg, #005aa7, #fffde4);
            background-repeat: no-repeat;
            background-size: cover;
            margin-left: 26%;
            margin-top: 5%;
            height: 220px;
            width: 700px;
            border: 2px solid rgb(13, 38, 79);
            border-radius: 50px 0px;
            box-shadow: 6px 6px 10px rgb(16, 20, 22), -6px -6px 10px rgb(16, 20, 22);
            font-size: 1.5rem;
            font-family: Arial, Helvetica, sans-serif;
            overflow: auto;
            padding: 20px;
            word-spacing: 5px;
        }

        .info img {
            width: 20%;
        }

        .box {
            text-align: center;
            height: 200px;
            margin-top: 70px;
        }

        .box>p {
            font-size: 2rem;
            font-weight: bolder;
        }
```

```css
        button {
            height: 45px;
            width: 140px;
            border-radius: 10px;
            border: none;
            background: green;
            transition: 1.5s;
        }

        button>a {
            text-decoration: none;
            color: bisque;
            font-size: 1.2rem;
            text-transform: uppercase;
        }

        button:hover {
            transform: scale(1.2);
            box-shadow: inset -10.5em 0 0 0 rgb(171, 28, 28), inset 10.5em 0 0 0 rgb(171, 28, 28);
            cursor: pointer;
        }

        footer {
            background: rgb(13, 38, 79);
            color: azure;
        }

        .foot {
            display: grid;
            margin: 20px;
        }

        .foot>h2 {
            border-bottom: 2px solid white;
            width: 300px;
        }

        .foot>a {
            text-decoration: none;
            color: azure;
            font-size: 1.2rem;
            margin: 10px;
        }

        .logo {
            gap: 20px;
        }

        .dev {
            height: 50px;
            margin: 20px;
            display: flexbox;
            text-align: center;
        }

        fa-brands {
            margin: 20px;
            padding: 20px;
        }
    </style>
</head>

<body>
    <header>
        <div class="logo"><img src="https://www.igntu.ac.in/images/logo_igntu.png" alt="logo">
        </div>
        <div class="nav">Department of Vocational Education</div>
    </header>
        <div class="imp">
```

```html
        <main>
            <div class="info">
                <p>A vocational degree is a certificate from an academic institution that is awarded to students
                    who have completed degree requirements for a specific field or trade. A vocational course is focused
                    on
                    practical work, preparing students for a particular trade or skilled profession. <br>
                    Vocational degrees are different than traditional degree programs, such as a bachelor's degrees or
                    master's
                    degrees. The former takes less time than the latter and allow students to begin working in the
                    relevent
                    field immediately. <br>
                    Vocational courses are specifically designed to equip students with the skills needed to enter the
                    working
                    world. Vocational courses are best for students who have a good idea of their career path and want
                    to gain
                    the knowledge to get there.
                </p>
            <div>
        </main>

        <section>
            <div class="box">
                <p>Syllabus for M. Voc. in Software development 2<sup>nd</sup> sem</p>
                    <button><a href="syllabusimg.html" target="_blank">click here</a></button>
            </div>
        </section>
            </div>

    <footer>
        <div style="display: flex;">
            <div class="foot">
                <h2>University Documents:</h2>
                <a href="https://www.igntu.ac.in/act.pdf">University Act</a>
                <a href="https://www.igntu.ac.in/Statues.pdf">University Statue</a>
                <a href="https://www.igntu.ac.in/Download/AcdCalendarRevised.pdf">Academic Calender</a>
                <a href="https://www.igntu.ac.in/download/holiday.pdf">List of Holiday</a>
            </div>

            <div class="foot">
                <h2>External Links:</h2>
                <a href="https://www.education.gov.in/en">Ministry of Education</a>
                <a href="http://www.ugc.ac.in/">UGC</a>
                <a href="https://www.scholarships.gov.in/">National Scholorship Portal</a>
                <a href="http://cpsms.nic.in/scholarship/">Fellowships</a>
            </div>

            <div class="foot">
                <h2>Important Links:</h2>
                <a href="https://www.igntu.ac.in/ncc.aspx">NCC Cell</a>
                <a href="https://www.igntu.ac.in/nss.aspx">NSS Cell</a>
                <a href="https://www.igntu.ac.in/raggingcell.aspx">Anti Ragging Cell</a>
                <a href="https://www.igntu.ac.in/PWDcell.aspx">Differently Abled Persons Cell</a>
            </div>

            <div class="foot">
                <h2>Contact With Us:</h2>
                <address>Indira Gandhi National Tribal University, Amarkantak, Village-Lalpur, Distt-Anuppur (M.P.),
                    Pin-484887</address>
                <div class="logo">
                    <i class="fa-brands fa-square-instagram"></i>
                    <i class="fa-brands fa-square-facebook"></i>
                    <i class="fa-brands fa-youtube"></i>
                    <i class="fa-brands fa-x-twitter"></i>
                </div>
            </div>
        </div>
        <div class="dev">
            <div>@Indira Gandhi National Tribal University, Amarkantak. All rights reserved.</div>
            <div>Developed By Shakti❤️❤️</div>
        </div>
    </footer>
</body>
</html>
```

```
<> syllabus.html  ●        <> syllabusimg.html  ✕

igntu > <> syllabusimg.html > ⬡ html > ⬡ head > ⬡ style
   1    <!DOCTYPE html>
   2    <html lang="en">
   3      <head>
   4        <meta charset="UTF-8" />
   5        <meta name="viewport" content="width=device-width, initial-scale=1.0" />
   6        <title>syllabus</title>
   7        <style>
   8          header {
   9            height: 160px;
  10            width: 100%;
  11            background: ⬜whitesmoke;
  12          }
  13
  14          .nav {
  15            width: 100%;
  16            height: 80px;
  17            background: ⬜rgb(13, 38, 79);
  18            font-size: 3rem;
  19            text-align: center;
  20            color: ⬜azure;
  21          }
  22
  23          .container {
  24            margin-top: 8%;
  25            margin-left: 23%;
  26          }
  27
  28          footer {
  29            background: ⬜rgb(13, 38, 79);
  30            color: ⬜azure;
  31          }
  32
  33          .foot {
  34            display: grid;
  35            margin: 20px;
  36          }
  37
  38          .foot > h2 {
  39            border-bottom: 2px solid ⬜white;
  40            width: 300px;
  41          }

  43          .foot > a {
  44            text-decoration: none;
  45            color: ⬜azure;
  46            font-size: 1.2rem;
  47            margin: 10px;
  48          }
  49
  50          .logo {
  51            gap: 20px;
  52          }
  53
  54          .dev {
  55            height: 50px;
  56            margin: 20px;
  57            display: flexbox;
  58            text-align: center;
  59          }
  60
  61          fa-brands {
  62            margin: 20px;
  63            padding: 20px;
  64          }
  65        </style>
  66      </head>
  67
  68      <body>
  69        <header>
  70          <div class="logo">
  71            <img src="https://www.igntu.ac.in/images/logo_igntu.png" alt="logo" />
  72          </div>
  73          <div class="nav">Department of Vocational Education</div>
  74        </header>
```

```html
    <main>
      <div class="container">
        <img src="Screenshot_2024-04-06_115557.png" alt="page-1" />
        <img src="Screenshot_2024-04-06_115613.png" alt="page-2" />
        <img src="Screenshot_2024-04-06_115630.png" alt="page-3" />
        <img src="Screenshot_2024-04-06_115653.png" alt="page-4" />
        <img src="Screenshot_2024-04-06_115710.png" alt="page-5" />
        <img src="Screenshot_2024-04-06_115726.png" alt="page-6" />
        <img src="Screenshot_2024-04-06_115740.png" alt="page-7" />
        <img src="Screenshot_2024-04-06_115754.png" alt="page-8" />
        <img src="Screenshot_2024-04-06_115809.png" alt="page-9" />
      </div>
    </main>
    <footer>
      <div style="display: flex">
        <div class="foot">
          <h2>University Documents:</h2>
          <a href="">University Act</a>
          <a href="">University Statue</a>
          <a href="">Academic Calender</a>
          <a href="">List of Holiday</a>
        </div>

        <div class="foot">
          <h2>External Links:</h2>
          <a href="">Ministry of Education</a>
          <a href="">UGC</a>
          <a href="">National Scholorship Portal</a>
          <a href="">Fellowships</a>
        </div>

        <div class="foot">
          <h2>Important Links:</h2>
          <a href="">NCC Cell</a>
          <a href="">NSS Cell</a>
          <a href="">Anti Ragging Cell</a>
          <a href="">Differently Abled Persons Cell</a>
        </div>

        <div class="foot">
          <h2>Contact With Us:</h2>
          <address>
            Indira Gandhi National Tribal University, Amarkantak,
            Village-Lalpur, Distt-Anuppur (M.P.), Pin-484887
          </address>
          <div class="logo">
            <i class="fa-brands fa-square-instagram"></i>
            <i class="fa-brands fa-square-facebook"></i>
            <i class="fa-brands fa-youtube"></i>
            <i class="fa-brands fa-x-twitter"></i>
          </div>
        </div>
      </div>
      <div class="dev">
        <div>
          @Indira Gandhi National Tribal University, Amarkantak. All rights
          reserved.
        </div>
        <div>Developed By Shakti🧡🧡</div>
      </div>
    </footer>
  </body>
</html>
```

Output:

इंदिरा गाँधी राष्ट्रीय जनजातीय विश्वविद्यालय, अमरकंटक
Indira Gandhi National Tribal University, Amarkantak
(A Central University established by an Act of Parliament)

Department of Vocational Education

A vocational degree is a certificate from an academic institution that is awarded to students who have completed degree requirements for a specific field or trade. A vocational course is focused on practical work, preparing students for a particular trade or skilled profession. Vocational degrees are different than traditional degree programs, such as a bachelor's degrees or master's degrees. The former takes less time than the latter and allow students to begin working in the relevent field immediately.

Syllabus for M. Voc. in Software development 2nd sem

CLICK HERE

University Documents:	External Links:	Important Links:	Contact With Us:
University Act	Ministry of Education	NCC Cell	
University Statue	UGC	NSS Cell	*Indira Gandhi National Tribal University, Amarkantak, Village-Lalpur, Distt-Anuppur (M.P.), Pin-484887*
Academic Calender	National Scholorship Portal	Anti Ragging Cell	
List of Holiday	Fellowships	Differently Abled Persons Cell	

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Developed By Shakti 🧡 🧡

Department of Vocational Education

Indira Gandhi National Tribal University, Amarkantak (Madhya Pradesh)
Syllabus of Master of Vocation in Software Development (To be effective from Academic Session 2020-21)

Indira Gandhi National Tribal University
Amarkantak (M.P.)

New Scheme
&
Detailed Syllabus
For
M.Voc. in Software Development
(To be effective from Academic Session 2020-21)

Department of Vocational Education
Faculty of Technical, Vocational Education &
Skill Training

Indira Gandhi National Tribal University, Amarkantak (Madhya Pradesh)
Syllabus of Master of Vocation in Software Development (To be effective from Academic Session 2020-21)
Master of Vocation Education
(Software Development)
Second Semester

Title of the Paper: Node JS with Express JS	Paper Code: MSD-201	
Credit: 04	Lecture: 04	T/P: 0
No. of Internal Exam: 02	No. of Assignment: 01	

Course Objectives:
- This course provides you strong foundation on Express framework driven by hands-on experience and exposure to develop responsive web application

UNIT-1
Introduction to Express Framework:
Introduction to Express JS Framework, Express JS Environment, Getting Started with Express, Your first Express App, Express Routing, Implementing MVC in Express, Express JS Middleware.

UNIT-2
Template Engines:
Why Template Engine, Error Handling, API Handling, Debugging, Developing Template Engines, Using Process Managers, Security & Deployment.

UNIT-3
Introduction to Node JS and Modules:
Introduction to Node JS, Advantages of Node JS, Traditional Web Server Model, Node.js Process Model, Install Node.js on Windows, Working in REPL, Functions, Buffer, Module, Module Types.

UNIT-4
Node Package Manager and Creating Web server:
What is NPM, Installing Packages Locally, Adding dependency in package.json, installing packages globally, Updating packages, creating web server, Handling http requests, Sending requests.

UNIT-5
File System, Debugging Node JS Application and Events:
Fs.readFile, Writing a File, Writing a file asynchronously, Opening a file, Deleting a file, Other IO Operations, Core Node JS debugger, EventEmitter class.

Indira Gandhi National Tribal University, Amarkantak (Madhya Pradesh)
Syllabus of Master of Vocation in Software Development (To be effective from Academic Session 2020-21)

Master of Vocation Education
(Software Development)
Second Semester

Title of the Paper: Angular JS	Paper Code: MSD-202	Credit: 04	Lecture: 04
No. of Internal Exam: 02	T/P: 0	No. of Assignment: 01	

Course Objectives:
- Building Strong expertise to develop front end application using Angular JS
- Increase the reliability and maintainability of UI by using data binding
- Retrieve data from back-end server, manipulate it and display it with ease
- Providing two way binding of data
- Create Single Page Applications (SPA)

UNIT-1
Overview of Angular JS:
Introduction to Angular JS, MVC Architecture, Conceptual Overview, Setting up the Environment, First Application and Understanding ng attributes.

UNIT-2
Expressions and Data Biding:
Number and String Expressions, Object Binding and Expressions, Working with Arrays Forgiving Behavior, Understanding Data binding, Forms binding and validation.

UNIT-3
Working with Directives and Controllers:
Conditional Directives, Styles Directives, Mouse and Keyboard Events Directives, Understanding Controllers, Programming Controllers & $scope object, Adding Behavior to a Scope Object ⊡ Passing Parameters to the Methods, Multiple Controllers and their scopes

Unit-4
Filters and Forms:
Built-In Filters, Uppercase and Lowercase Filters, Currency and Number Formatting Filters, OrderBy Filter, Creating Custom Filter, Using Simple Form, Working with Select and Options, Input Validations, Using CSS classes, Form Events, Custom Model update triggers, Custom Validations

Unit-5
Modules, Services and Ajax in Angular JS:
Module Loading and Dependencies, Recommended Setup of Application, Creation vs Retrieval, Understanding Services, Developing Creating Services, Using a Service, Injecting Dependencies in a Service, $http Service, $q Service, Routing.

Master of Vocation Education
(Software Development)
Second Semester

Title of the Paper: **Front End Lab**		Paper Code: **MSDL-204**	
Credit: **02**	Lecture: **0**	T/P: **04**	Lab File: **01**

Course Objectives:
- Understanding basic principles of user interface design and user experience
- Understand and apply current technologies
- Understand and apply business and product development concepts
- Implement MVC and responsive design to scale well across PC, tablet and Mobile
- Building Strong expertise to develop front end application using HTML5, CSS3 and JavaScript along with jQuery

Lists of Experiment/ Programs:
NOTE: - At least 10 Experiments out of the list must be done in the semester.
1. Introduction HTML
2. HTML Basics, HTML Elements, HTML5 Semantic, HTML Attributes
3. HTML Headings, HTML Paragraph, HTML Styles, HTML Formatting
4. HTML CSS, Links and Images , HTML Lists, HTML Blocks, HTML Responsive
5. HTML JavaScript, HTML Head
6. HTML Entities and URI Code
7. HTML Symbols and XHTML
8. HTML Charset and Forms
9. Introduction CSS3
10. Introduction to Bootstrap, Bootstrap Basics
11. Introduction to jQuery
12. Introduction to jQuery Mobile
13. Home page Development static pages (using Only HTML) of an online Book store. The website should consist the following pages.
    ✓ Registration and user Login, User Profile Page, Books catalog

TEXT and Reference Books

1. Responsive Web Design with HTML5 and CSS: Develop future-proof responsive websites using the latest HTML5 and CSS techniques, 3rd Edition
2. Web Design with HTML, CSS, JavaScript and jQuery Set 1st Edition
3. HTML 5, CSS 3 & Bootstrap 4 All-in-One: a complete introduction to front end web development (Visual Learning Guides) Paperback – December 31, 2019

Master of Vocation Education
(Software Development)
Second Semester

Title of the Paper:	**REACT Lab**	Paper Code:	**MSDL-205**
Credit: **03**	Lecture: **0**	T/P: **06**	Lab File: **01**

Course Objectives:
- This paper is designed to give you exposure to basic concepts of object-oriented technology help to write programs in Java using object-oriented paradigm.
- Understand file handling, GUI design using swing components and networking in java
- Identify and fix defects and common security issues in programing code.

Lists of Experiment/ Programs
NOTE: - At least 10 Experiments out of the list must be done in the semester.
1. Installing Browser Tools
2. Local Development Environment
3. Passing Data Through Props
4. Making an Interactive Component
5. Hello World in React JS
6. CUSTOMIZE STYLES, LIKE BUTTON COLORS AND TEXT ALIGNMENT
7. Props
8. Callback
9. Uncontrolled Vs Controlled Inputs
10. React Creating Refs
11. React Router
12. Redux
13. Server-side rendering

TEXT and Reference Books
1. "Testing React With Jest and Enzyme", Dominic Fraser, CodeClan
2. "Seven Exceptional Product Tours, and the Best Practices They Teach Us", Morgan Brown, Telepathy
3. "The Ultimate Guide to Product Tours and Walkthroughs", Margaret Kelsey, Appcues

Master of Vocation Education
(Software Development)
Second Semester

Title of the Paper:	Mongo DB Lab		Paper Code:	MSDL-206
Credit: 03	Lecture: 0	T/P: 06	Lab File: 01	

Course Objectives:

- This course builds strong foundation for web application development based on client-server
- Building strong expertise in Document Oriented Non-Relational Database Management System
- Implement frontend and backend scenarios to read, write and update data stored in MongoDB

Lists of Experiment/ Programs
NOTE: - At least 10 Experiments out of the list must be done in the semester.

1. Introduction to MongoDB
2. MongoDB Environment
3. MongoDB Create Database
4. MongoDB Drop Database
5. MongoDB Create Collection
6. MongoDB Drop Collection
7. MongoDB Read Operations
8. MongoDB Write Operations
9. MongoDB Data Modelling
10. MongoDB Administration
11. MongoDB Security
12. MongoDB Aggregation
13. MongoDB Indexes
14. MongoDB Storage
15. MongoDB Replication

Reference Books

1. MongoDB Applied Design Patterns by Rick Copeland, 2013
2. MEAN Web Development
3. MongoDB Applied Design Patterns: Practical Use Cases with the Leading Nosql Database Paperback – 19 March 2013

Master of Vocation Education
(Software Development)
Second Semester

Title of the Paper:	Research Methodology		Paper Code:	MSDL-207
Credit: 10	Lecture: 0	T/P: 20	Project File: 01	

Course Objectives:

- To develop understanding of the basic framework of research process
- To develop an understanding of various research designs and techniques.
- To identify various sources of information for literature review and data collection.
- To explore different traditions such as education platform, Data Security, Network Model, empiricism, rationalism and constructivism etc.

Lists of Experiment/ Programs

1. An Overview of Research Methodology – The role of research, research process overview
2. Steps involved, identification, selection and formulation of research problem
3. Philosophies and the language of research theory building – Science and its functions, What is theory?, and The meaning of methodology
4. Problems and Hypotheses – Defining the research problem, Formulation of the research hypotheses, The importance of problems and hypotheses
5. Research design – Experimental and Non-experimental research design, Field research, and Survey research
6. Methods of data collection – Secondary data collection methods, qualitative methods of data collection, and Survey methods of data collection
7. Attitude measurement and scaling – Types of measurement scales; Questionnaire designing – Reliability and Validity
8. Scientific writing: Article, notes, reports, review article, monographs, dissertations, popular computer science articles, bibliographies
9. Processing and analysis of data
10. Formulation of scientific communication: Outline preparation, drafting title, sub titles, tables, illustrations; Formatting tables- title, body footnotes; figures & graphs- structure, title and legends, Impact factor, citation indices, plagiarism.
11. Ethical issues in conducting research
12. Computer Applications: MS office, graphics (Sigma plot), statistical software (SPSS)

Evaluation: Assignments, Presentation, End-Term Paper

Reference Books:

1. Ranjit, K.(2005). Research Methodology: A Step-by-Step Guide for Beginners. SAGE Publications, New Delhi.
2. Bryman, Alan & Bell, Emma (2011). Business Research Methods (Third Edition). Oxford University Press.
3. Research Design:Qualitative, Quantitative &Mixed Method Approaches, JohnW. Creswell (2009), Sage Publication, USA.
4. Research Methodology - Methods & Techniques, CR Kothri CR (1990), Vishva Prakashan, New Delhi.