



# DADI INSTITUTE OF ENGINEERING & TECHNOLOGY (AUTONOMOUS)

Approved by A.I.C.T.E & Permanently affiliated to JNTU GV  
Accredited by NAAC with 'A' Grade and Inclusion u/s 2(f) & 12(B) of UGC Act

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Institute.

NH-16, Anakapalle - 531002, Visakhapatnam, A.P.

Website: [www.diet.edu.in](http://www.diet.edu.in), 9963993229 E-mail: [principal@diet.edu.in](mailto:principal@diet.edu.in)

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## A report on

### **Skill oriented Course & Internship: Full Stack Java**

The Department of Electrical and Electronics Engineering of Dadi Institute of Engineering & Technology- Autonomous in association with Data Pro under National skill development centre ( N.S.D.C ) conducted skill oriented course from 14 Aug 2023 to 21 November 2023 at Lecture Hall-32 in the institute premises. This course aimed to explore the symbiotic relationship between technological advancements, creativity, and the legal framework that protects these innovations. The course delved into the crucial role of emerging areas in fostering innovation and driving economic growth.

#### **Trainers:**

The trainers for this course was Mr. Ajmal Bhasha, senior trainer and renowned expert in the field Full stack technologies from Data pro organization that which enhances the skill of students under skill india motivation working under N.S.D.C. With a wealth of experience in both academia and industry, Mr. Ajmal bhasha brought a unique perspective to the discussion, blending theoretical insights with practical examples.

#### **The Importance of the Course :**

In today's globalized world, the importation of innovation has become a pivotal driver of economic growth and technological advancement. This phenomenon refers to the intentional adoption and integration of emerging technologies, and processes from external sources. This report explores the significance, challenges, and opportunities associated with the importation of this course, shedding light on how individuals can strategically leverage this process for industrial revolution.

#### **Course Pre requisites:**

- Basics of Java and related frameworks,
- knowledge of front-end web technologies
- Understanding of databases and SQL
- Experience with DevOps tools
- Proficiency in debugging and problem-solving



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## Training Highlights:

1. Course involved real time Project
2. Syllabus as per Industry Standards
3. Assessment will be conducted online through LMS
4. Practical will be administered by lab faculty
5. Periodic feedback shall be taken and shared to college management

## Course Outcomes:

### MODULE-1: Front-End Web Technologies (18 Hours) - Hour 1 to Hour 18

Day Number	Topic
Hour 1	<b>HTML:</b> Introduction, Basic Tags: Heading Tags, Font tags, Bullets, Text colour, Background colour, Images, Marquee, pre, hr etc
Hour 2	Tables Hyperlinks Video & Audio Tags
Hour 3	<b>CSS:</b> Introduction, internal styles, id selector, class selector, External CSS, Nesting & Grouping
Hour 4	Borders, Margins & Padding, Hover selector, Combinators
Hour 5	<b>CSS3:</b> Rounded Corners, Multiple Background Images, Text Transformations, Gradient Backgrounds
Hour 6	<b>Javascript</b> – Introduction, alert box, display date & time, setInterval(), setTimeout()
Hour 7	<b>Javascript</b> – Form Validation
Hour 8	<b>Javascript ES6</b> – The let keyword The const keyword Ex2 JavaScript Arrow Functions JavaScript Arrow Functions Ex2 – with parameters JavaScript for/of
Hour 9	Default Parameter values Javascript Template Literals rest parameter, Spread operator
Hour 10	Javascript ES6 Collections: Filter, Map, Reduce, Sets, De-structuring Assignment, Array.find(), Array.findIndex()
Hour 11	<b>Javascript ES6:</b> Object Oriented Programming
Hour 12	<b>jQuery</b> Library: Basic functions, using CDN, jQuery HTML
Hour 13	<b>Bootstrap:</b> Grid System, equal and unequal columns, Typography, Tables
Hour 14	Jumbotron, Glyphicons, Alerts, Breadcrumbs
Hour 15	Bootstrap: Collapsible, Accordion, Tabs, Navigation Bar
Hour 16	<b>Bootstrap:</b> Input Groups, Media Objects, Carousel, Templates & Themes



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Hour 17	<b>Bootstrap-5</b> Features – Cards, Carousel, navbar
Hour 18	<b>Exam</b>

**MODULE-2: Database (2 Hours) – Hour 19 and Hour 20**

Day Number	Topic
Hour 19	<b>Introduction to Databases, MySQL:</b> How to set up XAMPP Server, creating database
Hour 20	<b>MySQL:</b> How to do CRUD Operations in MySQL Export & Import Facility

**MODULE-3: Java Language (25 Hours) – Hour 21 to Hour 45**

Day Number	Topic
Hour 21	<b>Introduction to Java Technology:</b> Java Editions What makes Java so special Platform Independent Feature What is Java, What is Java actually S/W required Java IDEs Key Features of Java Topics removed from C, C++
Hour 22	<b>Introduction to Java Programming:</b> First Java Program – without using any IDE How to use Eclipse IDE & its Features
Hour 23	Concatenation operator Robust feature – demo Creating an object Reading an integer, Scanner object Sum of two integers
Hour 24	Dealing with multiple classes Dealing with fields/instance variables, setter method, String class
Hour 25	private fields, getter methods Constructors examples What if a field is not initialized Visibility modifiers
Hour 26	Function call mechanisms in Java this reference
Hour 27	Comparing objects Garbage collection Another use of this reference
Hour 28	static fields Predefined static methods static import User defined static methods extends keyword Method overriding & usage of super keyword
Hour 29	Demo on some rules regarding function overriding Invoking base class constructors final class, final methods & final fields Upcasting, downcasting Multiple inheritance in Java



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Hour 30	<b>Creating our own Package &amp; using it using Eclipse IDE</b>
Hour 31	<b>Datatypes &amp; Operators:</b> Classification of datatypes Loss of precision error Typecasting Modulus operator unlike in C Relational operator unlike in C Boolean logical operator unlike in C Inconvertible types Default values for fields Concatenation operator revisited – what can be the operand types
Hour 32	<b>Control Structures:</b> if, else, else if, for, while, do while, break, continue, labelled break, labelled continue
Hour 33	<b>Arrays:</b> Arrays – declaration & definition – diff. methods Accessing array elements, length property,
Hour 34	enhanced for loop Robust feature – Array index out of bounds 2-D array declaration Matrix program Arrays: Assigning arrays, Creating an array of objects
Hour 35	<b>Strings</b> – String methods, comparing strings, String Vs StringBuffer, StringBuffer methods StringTokenizer, split(), command line arguments
Hour 36	<b>Wrapper Classes:</b> Introduction, Use cases of Wrapper classes, Boxing, unboxing, Autoboxing, autounboxing Converting String to Integer Converting Integer to String
Hour 37	<b>Interfaces:</b> Introduction, Runtime Polymorphism Implementation
Hour 38	abstract methods & abstract classes
Hour 39	Interfaces holding a list of constants <b>Exception Handling:</b> Introduction, try, catch, finally
Hour 40	Multiple catch blocks, nested try-catch
Hour 41	<b>Exception Handling:</b> throw, throws, checked & Unchecked Exceptions
Hour 42	<b>File Handling:</b> Introduction, File class, Reading & Writing Text files
Hour 43	<b>File Handling:</b> Writing Primitives & Reading Primitives, Reading & Writing Binary Files
Hour 44	<b>Multithreading:</b> Introduction, Creating our own Threads – different methods
Hour 45	<b>Collections Framework</b> – Set1: HashSet, TreeSet, ArrayList

#### MODULE-4: Java Web (2 Hours) - Hour 46 and Hour 47

Day Number	Topic
Hour 46	<b>JDBC:</b> Introduction, JDBC Architecture, Establishing Connection with Oracle Database, JDBC: Updating a Record, Retrieving Records, JDBC: PreparedStatement
Hour 47	<b>Servlets &amp; JSP Introduction and Demo</b>

#### MODULE-5: Hibernate Framework (1 Hour) – Hour 48

Day Number	Topic
Hour 48	Introduction



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	The problem with pure JDBC How do we do it in Hibernate
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**MODULE-6: Spring Core Framework (1 Hour) – Hour 49**

Day Number	Topic
Hour 49	Why Spring Framework is required – With a Use Case Introduction to Spring Framework, s/w required to use Spring Framework and Set up in Eclipse IDE, Using Spring Dependency Injection - Setter injection

**MODULE-7: Spring MVC (1 Hour) – Hour 50**

Day Number	Topic
Hour 50	Spring MVC Architecture, Spring MVC – Welcome Message, Spring MVC with Annotations

**MODULE-8: Spring Boot (3 Hours) – Hour 51 to Hour 53**

Day Number	Topic
Hour 51	Introduction to Spring Boot, Setting up STS Software, Creating First Spring Boot Application using STS & Spring Autowire
Hour 52	Dependency Injection in Spring Boot, Creating a Web Application using Spring Boot, Configuring the application.properties file
Hour 53	Spring Boot Web Application + JPA + MySQL Database

**MODULE-9: React JS (Front-End Advanced) (4 Hours) – Hour 54 to Hour 57**

Day Number	Topic
Hour 54	Introduction to React JS & Software Installation Creating our First ReactJS Program
Hour 55	Creating our own Functional Component, Creating our own Class Component
Hour 56	Routing Demo
Hour 57	Introduction to React Hooks, Demo on useState Hook, Creating multiple useState Hooks

**MODULE-10: Spring Boot + React JS + Database Integration (1 Hour) – Hour 58**

Day Number	Topic
Hour 58	Database Design + React JS, Spring Boot + Integration

**MODULE-11: Project (2 Hours) – Hour 59 & Hour 60**

Day Number	Topic
Hour 59	Database Design, Front-End Design and Coding
Hour 60	Back-End Design and Coding, Integration of all 3 – Tiers, Final Review





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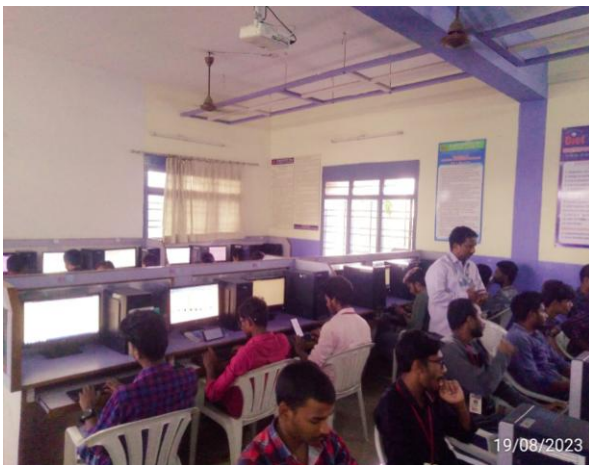
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**Training in ICT enabled Lecture Hall 32, fourth floor**



**Training in ICT enabled Laboratory sessions on real time projects**

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## List of participants:

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S.NO	ROLL NO	STUDENTS LIST	TOTAL(49)	PERCENTAGE
1	20U41A0202	ORUPULA PUJA HEMANTH	14	100
2	20U41A0203	PEYYALA MOHAN	12	86
3	20U41A0205	KASIREDDY SAI YASWANTH	14	100
4	20U41A0206	SIYYADRI JAGAN KUMAR	10	71
5	20U41A0207	BODDAPU MANIKANTA	12	86
6	20U41A0208	GANTA VISWESWARA RAO	14	100
7	20U41A0209	GEDDAM BHARATHI	14	100
8	20U41A0210	CHEEPURUPALLI MAHESH	14	100
9	20U41A0211	SAMMIDI SURYA ROHIT	14	100
10	20U41A0212	KATARI VENKATESH	12	86
11	20U41A0213	BUDDHA SHYAM SUNDHAR	12	86
12	20U41A0214	ANGA SRINIVAS	14	100
13	20U41A0215	KAKARLAMOODI VISHNU VARDHAN	14	100
14	21U45A0201	AREEPU NOOKESH KUMAR	14	100
15	21U45A0202	ATHAVA PRAVEEN KUMAR	14	100
16	21U45A0203	BARNIKANA GOVINDA	12	86
17	21U45A0205	DAKAMARRI RAMU	12	86
18	21U45A0206	DASARI YASWANTH	14	100
19	21U45A0207	DUKKA SRINIVASA REDDY	14	100
20	21U45A0208	DULLA PAVAN KUMAR	14	100
21	21U45A0209	GANDRETI GOWTHAM PATNAIK	14	100
22	21U45A0210	GANGUPAM DURGA SAI PRASAD	12	86
23	21U45A0211	GANNU UMA MAHESWARI	14	100
24	21U45A0212	GINNI NAVEEN KUMAR	12	86
25	21U45A0213	GOPASANA YASWANTH SURYA PADMAKAR	12	86
26	21U45A0214	KALLEMPUDI SAI	14	100
27	21U45A0216	KANDREGULA BHARGHAVI	12	86

27	21U45A0216	KANDREGULA BHARGHAVI	12	86
28	21U45A0217	KANUMAREDDY LEELA VARAHA LAVANYA	14	100
29	21U45A0218	KORUKONDA YAMINI PRIYANKA	12	86
30	21U45A0219	KUNDALA BHANU SAI KRISHNA	12	86
31	21U45A0220	CHODIPALLI MUTYALANAIDU	10	71
32	21U45A0221	MADAKA RAMA KRISHNA	12	86
33	21U45A0222	MADETI MANIKANTA	12	86
34	21U45A0223	MALLA HARIKA	14	100
35	21U45A0224	MALLA VENKATA KUMAR	12	86
36	21U45A0225	MARISERLA VENKATA SAI	14	100
37	21U45A0226	MEESALA NAGARAJU	14	100
38	21U45A0227	MERUGU PRAMODH	12	86
39	21U45A0228	MUMMANA VINAY KUMAR	10	71
40	21U45A0229	NAGA DURGA PRASAD KODIBOYINA	14	100
41	21U45A0230	PALAKA GAYATHRI	14	100
42	21U45A0231	PATTA JYOTHI AMAR SWAROOP	14	100
43	21U45A0232	PEBBULI LAXMAN SAI	12	86





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44	21U45A0233	PEDIREDLA KARTHIK	14	100
45	21U45A0234	PILLA VENKATA RAMANA	14	100
46	21U45A0235	REYYI VENU	14	100
47	21U45A0236	SAMMENGI VAMSI KRISHNA	14	100
48	21U45A0237	VIRODHULA MANIKUMAR	12	86

*[Signature]*  
Dept. SKRI Coordinator

*[Signature]*  
HOD  
Head of Department  
Department of Electronics & Communication Engineering  
Dadi Institute of Engineering & Technology  
Anakapalle - 531 002

Sl.No	Roll.No	Student Name	TOTAL(77)	PERCENTAGE
1	20U45A0227	KARANAM SYAM KUMAR	18	81.8
2	20U45A0259	VINDULA CHARAN SAI TEJA	18	81.8
3	20U45A0265	KOYYA NAVEEN	19	86.4
4	21U45A0238	YAMANA KIRANMAYE	22	100.0
5	21U45A0239	ADARI SAI KUMAR	22	100.0
6	21U45A0240	AMARAPINI KUSHAL	18	81.8
7	21U45A0241	BAKI KURMAREDDY	18	81.8
8	21U45A0242	BETHA BALAJI	16	72.7
9	21U45A0243	BODDETI ANUSHA	18	81.8
10	21U45A0244	BODDETI PAVAN VAMSI	22	100.0
11	21U45A0245	BODDU VEERA SAI MANI TEJA	22	100.0
12	21U45A0246	BUDDHA LOHITH KUMAR	20	90.9
13	21U45A0247	CHEKKA SHRI SAI MOUNIKA	18	81.8
14	21U45A0248	DADISETTY GOWTHAM SAI KARTHIK	22	100.0
15	21U45A0249	DASARI VINAY	16	72.7
16	21U45A0250	DEPURI NAGARAJU	20	90.9
17	21U45A0251	DEVARAKONDA NAVEEN KUMAR	18	81.8
18	21U45A0252	DEVARAPU LAXMAN KUMAR	22	100.0
19	21U45A0253	DURGA PRASAD PRASADULA	22	100.0
20	21U45A0254	GALLA SRINIVASARAO	22	100.0
21	21U45A0255	GOKULAPATI GANESH	18	81.8
22	21U45A0256	JALLU TULASI RAM	16	72.7
23	21U45A0257	KADIMI HARINADH	20	90.9
24	21U45A0258	KANDREGULA YOGITHA SUBHADRA	18	81.8
25	21U45A0259	KANNAM CHUHITHA	18	81.8
26	21U45A0260	KARRI DEEKSHITH	22	100.0
27	21U45A0261	KISHAN KUMAR	14	63.6
28	21U45A0262	KONATALA MOHAN SAI	22	100.0
29	21U45A0263	BHAVANI	22	100.0
30	21U45A0264	KUNDRAPU KOUSALYA	22	100.0
31	21U45A0265	MALLA BHARGAV SWAMY	22	100.0
32	21U45A0266	MANGARAJU SWATHI	20	90.9





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33	21U45A0267	MARISSETTY NEERAJ	20	90.9
34	21U45A0268	MOHAMMAD GULAM MUSTHAFA	20	90.9
35	21U45A0269	MULAPARTHI ADITYA SAI	16	72.7
36	21U45A0270	MUMMINA PUSHPA	22	100.0
37	21U45A0272	PAPPALA TEJA SRI	22	100.0
38	21U45A0273	PERLA SANDHYA	16	72.7

40	21U45A0275	RAPETI KUSUMA KOMALI	12	54.5
41	21U45A0276	SARAGADAM SASHIDHAR	20	90.9
42	21U45A0277	SOHAN DAS	22	100.0
43	21U45A0278	KRISHNA	22	100.0
44	21U45A0279	VURITI GYANA SABARISH KRISHNA	17	77.3
45	21U45A0280	THANNA VAMSI	17	77.3
46	21U45A0281	MANYAM SAI JAYA KRISHNA	22	100.0
47	21U45A0282	BYLAPUDI NARAYANARAO	20	90.9

*S. S. Srinivas*  
Dept. Skill Coordinator

MOD  
15/10/23  
(Dr. A. S. R. Govilamma)  
Electronics & Communication Engg Tech

## Time table (In campus Training)

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EEE IV BTECH STUDENT CLASS ROOM ADJUSTMENT OCT-2023			
FULL STACK		REGULAR CLASSWORK	
	MORNING SESSION 9.00AM-12.40PM THEORY CLASS	AFTERNOON SESSION 1.30PM-4.00PM PRACTICAL	
MONDAY	LH-32 IV EEE-B & IV ECE B	LAB 3RD FLOOR IV EEE-B & IV ECE B	MONDAY
TUESDAY	LH-32 IV EEE-B & IV ECE B	LAB 3RD FLOOR IV EEE-B & IV ECE B	TUESDAY
			MONDAY
			TUESDAY

FULL STACK			
	MORNING SESSION 9.00AM-12.40PM THEORY CLASS	AFTERNOON SESSION 1.30PM-4.00PM PRACTICAL	
FRIDAY	LH-32 IV EEE-A & IV ECE A	LAB 3RD FLOOR IV EEE-A & IV ECE A	FRIDAY
SATURDAY	LH-32 IV EEE-A & IV ECE A	LAB 3RD FLOOR IV EEE-A & IV ECE A	SATURDAY

*S. S. Srinivas*  
Dept. Skill Coordinator

MOD  
15/10/23  
(Dr. A. S. R. Govilamma)



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Internship Schedule by Data Pro

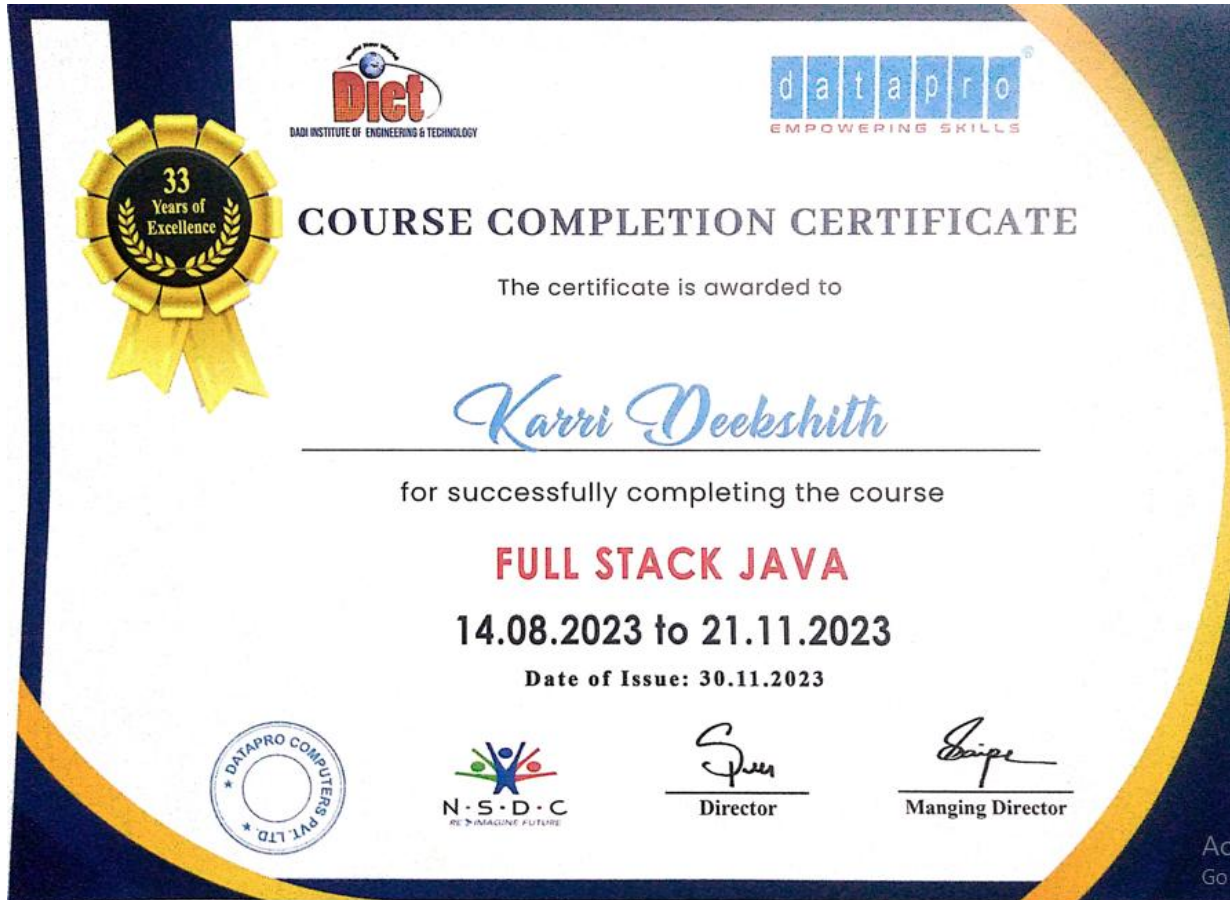


EMPOWERING SKILLS  
For DIET Engineering College

Java Full Stack Web Developer Course  
(Hour wise plan for 60 Hours) - Hands on sessions

	Batch 1&2		Batch 3&4	
	Mon	Tue	Fri	Sat
9am to 12pm	Batch1 Theory	Batch1 Theory	Batch3 Theory	Batch3 Theory
9am to 12pm	Batch2 Lab	Batch2 Lab	Batch4 Lab	Batch4 Lab
	Lunch		Lunch	
1pm to 4pm	Batch2 Theory	Batch2 Theory	Batch4 Theory	Batch4 Theory
1pm to 4pm	Batch2 Lab	Batch2 Lab	Batch4 Lab	Batch4 Lab

Sample certificates





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**33 Years of Excellence**

## INTERNSHIP COMPLETION CERTIFICATE

Awarded to Mr / Ms.

*Sammengi Vamsi Krishna*

has successfully completed internship

**FULL STACK JAVA**

**DADI INSTITUTE OF ENGINEERING & TECHNOLOGY**  
Electrical & Electronics Engineering.

**14.08.2023 to 21.11.2023**

*Suresh*  
Director

*Sanjeev*  
Managing Director

GST Number: 37AADCD0138J1ZT    PAN Number: AADCD0138J    TAN Number: VPDND00932B

XAMPP Control Panel v3.2.2 [Compiled Nov 12th 2015]

Service	Module	PHP	Port(s)	Actions
<input type="checkbox"/>	Apache			Start Stop Config Log
<input type="checkbox"/>	MySQL			Start Stop Config Log
<input type="checkbox"/>	PHP			Start Stop Config Log
<input type="checkbox"/>	MySQL			Start Stop Config Log
<input type="checkbox"/>	MySQL			Start Stop Config Log

```

7:32:10 PM [man] Installing Control Panel
7:32:10 PM [man] Windows Version: Windows 7 Home Basic SP1 64 bit
7:32:10 PM [man] XAMPP Version: 3.0.8
7:32:10 PM [man] Control Panel Version: 3.2.2 [Compiled Nov 12th 2015]
7:32:10 PM [man] You are not running with administrator rights. This will work for
7:32:10 PM [man] most application stuff but whenever you do something with sockets
7:32:10 PM [man] there will be a security dialog or things will break! So think
7:32:10 PM [man] about running this application with administrator rights!
7:32:10 PM [man] XAMPP installation directory: 'c:\xampp'
7:32:10 PM [man] Checking for prerequisites
7:32:10 PM [man] All prerequisites found
7:32:10 PM [man] Installing Modules
7:32:10 PM [Apache] Problem detected!
7:32:10 PM [Apache] Port 80 in use by 'Unable to open access' with PID 4!
7:32:10 PM [Apache] Apache WILL NOT start without the configured ports free!
7:32:10 PM [Apache] You need to uninstall/disable/reconfigure the blocking application
7:32:10 PM [Apache] or reconfigure Apache and the Control Panel to listen on a different port
7:32:10 PM [MySQL] MySQL Service detected with wrong path
7:32:10 PM [MySQL] Change XAMPP MySQL and Control Panel settings or
7:32:10 PM [MySQL] Uninstall/disable the other instance manually first.
7:32:10 PM [MySQL] Found Path: 'C:\Program Files (x86)\MySQL\MySQL Server 5.6\bin\mysqld.exe' - defaults file: 'C:\Program Files (x86)\MySQL\MySQL Server 5.6\my.cnf'
7:32:10 PM [MySQL] Expected Path: 'c:\xampp\mysql\bin\mysqld.exe' - defaults file: 'c:\xampp\mysql\bin\my.cnf'
7:32:10 PM [MySQL] Problem detected!
7:32:10 PM [MySQL] Port 3306 in use by 'C:\Estram\wordpress-4.2.2\mysqlbin\mysqld.exe' - defaults file: 'C:\Estram\wordpress-4.2.2\mysqlbin\my.cnf'
7:32:10 PM [MySQL] MySQL WILL NOT start without the configured ports free!
7:32:10 PM [MySQL] You need to uninstall/disable/reconfigure the blocking application
7:32:10 PM [MySQL] or reconfigure MySQL and the Control Panel to listen on a different port
7:32:10 PM [man] Starting Check-Timer
7:32:10 PM [man] Control Panel Ready
  
```

Laboratory sessions dashboard



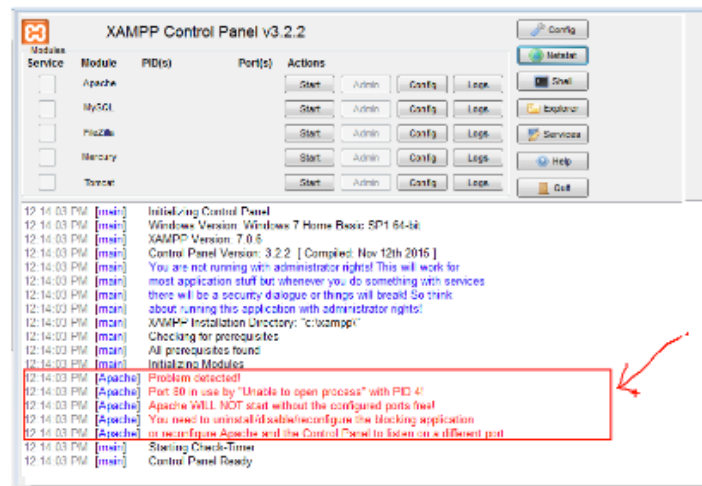
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One-one interaction based training on real time projects

## Conclusion:

The skill oriented course provided a comprehensive overview of the dynamic interplay between emerging area influence on recent trends in Industrial connectivity. Attendees gained valuable insights into the challenges, strategies, and opportunities in this evolving landscape. The course underscored the importance of a robust framework in driving innovation and contributing to the advancement of technology and society.

In conclusion, the course successfully emphasizes the intertwined nature of mean stack technologies and underscores the critical role they play in shaping the technological landscape.

(Mr. J. Shiva )

Department Skill coordinator

HOD

( Dr. A S L K Gopalamma)



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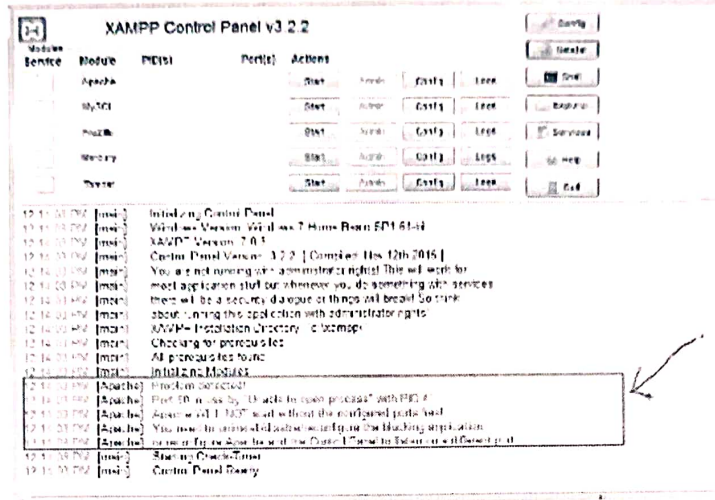
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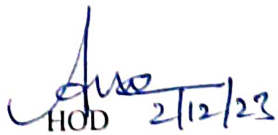


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HOD 2/12/23  
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