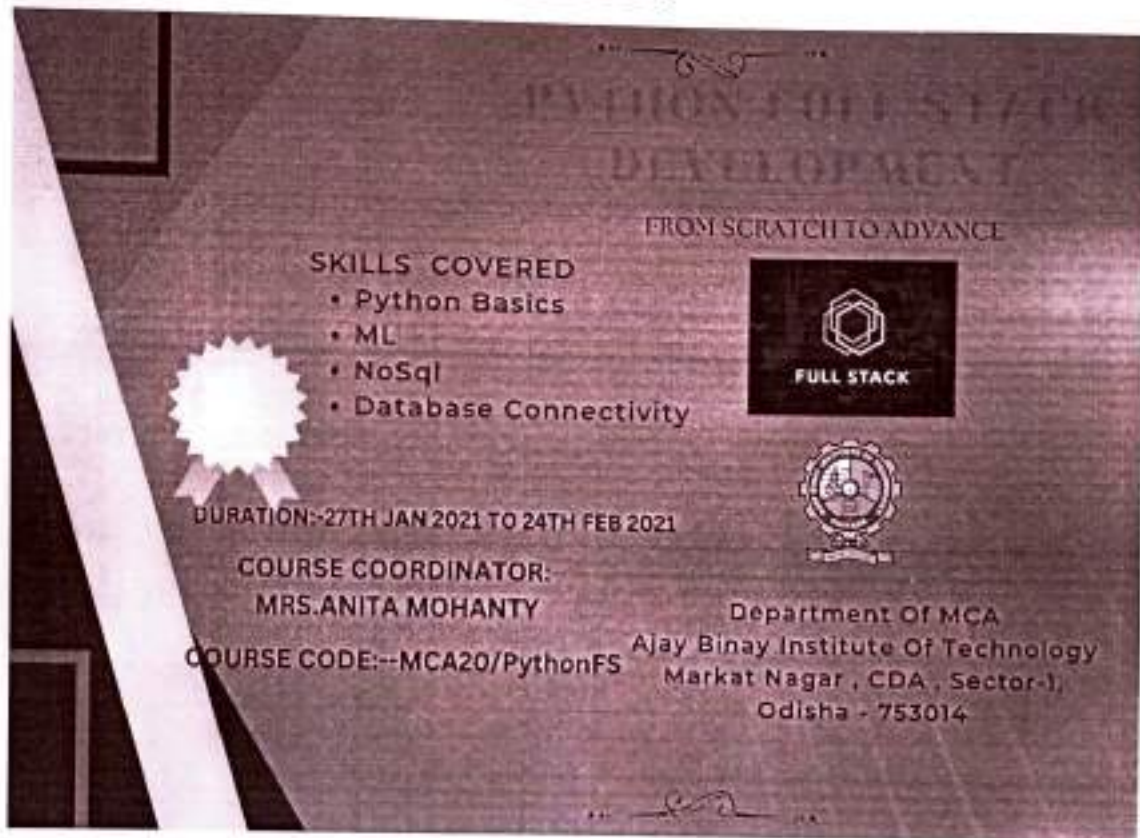


PYTHON FULL STACK DEVELOPMENT DOCUMENTS

SESSION:- 2020-2021

BROCHURE



The brochure features a dark background with a light-colored geometric pattern on the left. At the top, the title 'PYTHON FULL STACK DEVELOPMENT' is written in a stylized font, followed by the subtitle 'FROM SCRATCH TO ADVANCE'. Below this, the 'SKILLS COVERED' section lists Python Basics, ML, NoSql, and Database Connectivity. A gold starburst graphic is placed next to the duration '27TH JAN 2021 TO 24TH FEB 2021'. The course coordinator's name, 'MRS. ANITA MOHANTY', is listed below. To the right, there is a 'FULL STACK' logo with a hexagonal icon and a circular emblem. The department and institute information, 'Department Of MCA, Ajay Binay Institute Of Technology, Market Nagar, CDA, Sector-1, Odisha - 753014', is printed at the bottom right of the brochure content.

PYTHON FULL STACK DEVELOPMENT
FROM SCRATCH TO ADVANCE

SKILLS COVERED

- Python Basics
- ML
- NoSql
- Database Connectivity

DURATION:-27TH JAN 2021 TO 24TH FEB 2021

COURSE COORDINATOR:
MRS. ANITA MOHANTY

COURSE CODE:--MCA20/PythonFS

Department Of MCA
Ajay Binay Institute Of Technology
Market Nagar , CDA , Sector-1,
Odisha - 753014



PRINCIPAL
AJAY BINAY INSTITUTE OF TECHNOLOGY
CDA, CUTTACK

AJAY BINAY INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MCA

STUDENT ADD ON COURSE NOTICE

DATE:-21TH JAN 2021

This is here by informed to all the MCA students that the DEPT. of MCA is organizing an ADD ON COURSE on PYTHON FULL STACK DEVELOPMENT from 27TH JAN. 2021 TO 24TH FEB. 2021. All the students are requested to attend the program on schedule date.

HOD
21/01/2021
Department of MCA

STUDENT LIST

AJAY BINAY INSTITUTE OF TECHNOLOGY DEPARTMENT OF
MCA

STUDENT LIST:- 2020-21

Sub:-PYTHON FULL STACK DEVELOPMENT

SL.NO.	REGD.NO.	NAME OF THE STUDENT
1	1905206001	ADITYA LENKA
2	2005206009	BHAGYASHREE PARIDA
3	2005206050	BISWAJIT BOITEI
4	2005206013	BISWAJIT SAHOO
5	1905206010	LIPI NAIK
6	2005206027	PARTHASARATHI PANDA
7	1905206016	PRAKASH BAGH
8	2005206032	RAJESWAREE PATI
9	2005206035	SANDHYARANI DAS
10	1905206027	SARITA PARIDA
11	1905206032	SOMNATH BEHERA
12	2005206047	SWATI SAMIKSHYA DAS
13	1901206041	ABHISHEK NAYAK
14	1901206044	ALIVA PUPUL MOHAPATRA
15	1901206184	BIRENDRA MONDAL
16	1901206114	CHINMAYI KANHAR
17	1901206185	DEEPAK HEMBRAM
18	1901206053	DIPTIMAYI TRIPATHY
19	1901206056	HRUSHIKESH ROUT
20	1901206059	KSHITUN HARINA DEHURY
21	1901206062	MAHIMA NANDA PANDA
22	1901206195	NILESH KUMAR BANARA
23	1901206066	PRATIK KUMAR MOHANTY
24	1901206067	PRATUSH PASAYAT
25	1901206123	PRIYANKA SWAIN
26	1901206084	SOUMYA RANJAN SAMAL
27	1901206090	SUBRAT KUMAR BEHERA


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CDA, CUTTACK

AJAY BINAY INSTITUTE OF TECHNOLOGY
(AFFILIATED TO BPUT, APPROVED BY AICTE, NAAC ACCREDITED)

DEPARTMENT OF MCA

Syllabus:

Subject: PYTHON PROGRAMMING

Module 1 - Introduction to Python and Computer Programming : Python - a tool, not a reptile, There is more than one Python, Let's start our Python adventure

Module 2 - Data Types, Variables, Basic Input-Output Operations, Basic Operators : Your first program, Python literals, Operators - data manipulation tools, Variables - data-shaped boxes

Module 3 - Boolean Values, Conditional Execution, Loops, Lists and List Processing, Logical and Bitwise Operations : Making decisions in Python ,Python's loops ,Logic and bit operations in Python, Lists,Sorting simple lists - the bubble sort algorithm ,Lists - some more details ,Lists in advanced applications

Module 4 - Functions, Tuples, Dictionaries, and Data Processing : Writing functions in Python ,How functions communicate with their environment? ,Returning a result from a function ,Scopes in Python ,Tuples and dictionaries

Module 5 - Modules, Packages, String and List Methods, and Exceptions : Using modules ,Some useful modules ,What is package? ,Errors, The anatomy of exception ,Some of the most useful exceptions , Characters and strings , Python's nature of strings ,String methods ,Strings in action ,Four simple programs

Module 6 - The Object-Oriented Approach: Classes, Methods, Objects, and the Standard Objective Features; Exception Handling, and Working with Files : Basic concepts of object programming ,A short journey from procedural to object approach Properties : Methods , Inheritance ,Exceptions once again ,Generators and closures ,Processing files ,Working with real files


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DEPARTMENT OF MCA

LESSON PLAN

SUBJECT-PYTHON FULL STACK DEVELOPMENT

COURSE OUTCOMES

CO1	Understand the Basic design concepts of a database
CO2	Students will be able to install,configure and interact with a relational database management system
CO3	Learn and understand various database architecture and applications
CO4	Students will be able to master the basics of SQL and construct queries using SQL
CO5	Develop an ability to remove data redundancy by translating created relational model into normalized design.
CO6	Students will be able to design and develop a large database with optimal query processing

LESSON PLAN

Lecture	Module	Topics
1	I	Introduction to Python and Computer Programming : Python - a tool
2	I	Data Types, Variables, Basic Input-Output Operations, Basic Operators
3	I	Basic Operators
4	I	Python literals, Operators, Variables
5	I	Python Variables
6	II	Python's loops ,Logic and bit operations in Python

7	II	Python's loops
8	II	Lists - some more details ,Lists in advanced applications
9	II	Lists
10	III	List in Advanced Application
11	III	Writing functions in Python ,How functions communicate with their environment?
12	III	Functions in Python
13	III	Returning a result from a function ,Scopes in Python ,Tuples and dictionaries
14	IV	Tuples and dictionaries
15	IV	Tuples and dictionaries
16	IV	Using modules ,Some useful modules
17	IV	What is package? ,Errors
18	IV	Some of the most useful exceptions
19	V	Some of the most useful exceptions
20	V	Some of the most useful exceptions
21	V	Python's nature of strings ,String methods
22	V	String methods ,Strings in action ,Four simple programs
23	V	String Methods
24	V	Classes, Methods
25	V	Classes, Methods
26	VI	Methods , Inheritance
27	VI	Methods , Inheritance
28	VI	Methods , Inheritance
29	VI	Generators and closures

30	VI	Basic concepts of object programming
31	VI	Basic concepts of object programming
32	VI	Processing files , Working with real files
33	VI	Processing files
34	VI	Working with real files
35	VI	Exception Handling
36	VI	Exception Handling

CO-PO MAPPING

CO NO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	2	1	1	1				2	2	2
CO2	3	2	2	2	3	2				1	3	2
CO3	3	2	3	2	2	2				2	1	3
CO4	3	2	2	2	2	2				2	3	2
CO5	3	2	2	3	1	1				1	3	2
CO6	3	2	3	3	3	2				2	3	3


 PRINCIPAL
 AJAY BHAI INSTITUTE OF TECHNOLOGY
 CDA, CUTTACK

SL NO. :- MCA20/090



CERTIFICATE OF APPRECIATION

PROUDLY PRESENTED TO

_____ SUBRAT KUMAR BEHERA _____

REGD NO:- 1901206090

for successfully completing 30hours of Python Full Stack Development training from 27-01-2021 to 24-02-2021 organized by Department of MCA, Ajay Binay Institute of Technology, Cuttack.

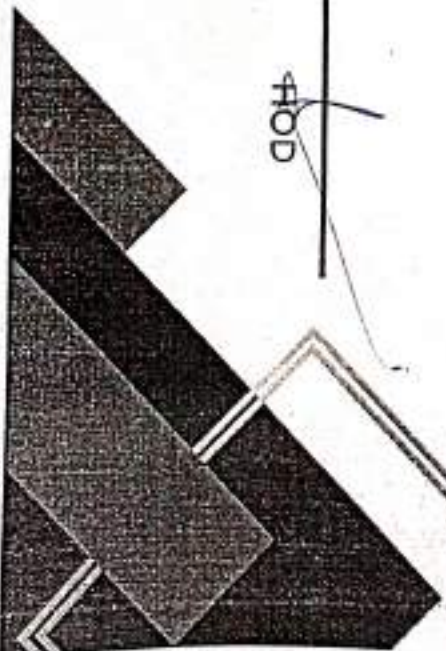
SEMINAR COORDINATOR

_____ *[Signature]* _____

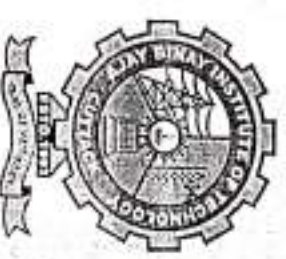
PRINCIPAL
AJAY BINAY INSTITUTE OF TECHNOLOGY
CDA, CUTTACK

_____ *[Signature]* _____

HOD _____



SL NO. :- MCA20/084



CERTIFICATE OF APPRECIATION

PROUDLY PRESENTED TO

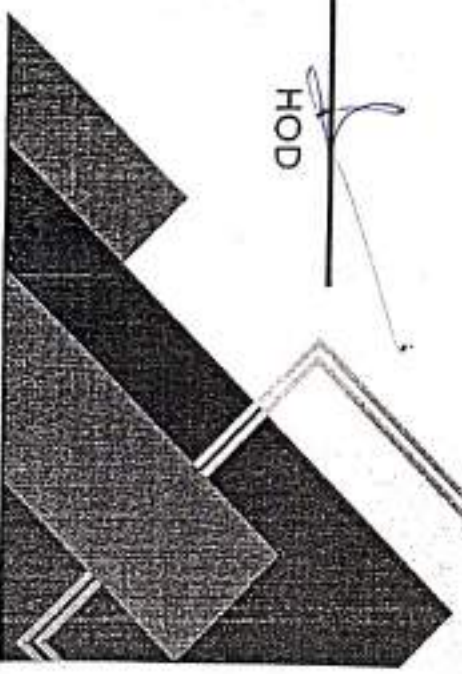
_____ SOURIYA RANJAN SAMI _____
REGD NO:- 1901206084

for successfully completing 30hours of Python Full Stack Development training from 27-01-2021 to 24-02-2021 organized by Department of MCA, Ajay Binay Institute of Technology, Cuttack.

_____ [Signature] _____
SEMINAR COORDINATOR

_____ [Signature] _____
PRINCIPAL
AJAY BINAY INSTITUTE OF TECHNOLOGY
CDA, CUTTACK

_____ [Signature] _____
HOD



SL NO. :- MCA20/053



CERTIFICATE OF APPRECIATION

PROUDLY PRESENTED TO

_____ PRITYANKA SWAIN _____

REGD NO:- 1901206123

for successfully completing 30hours of Python Full Stack Development training from 27-01-2021 to 24-02-2021 organized by Department of MCA , Ajay Binay Institute of Technology , Cuttack.

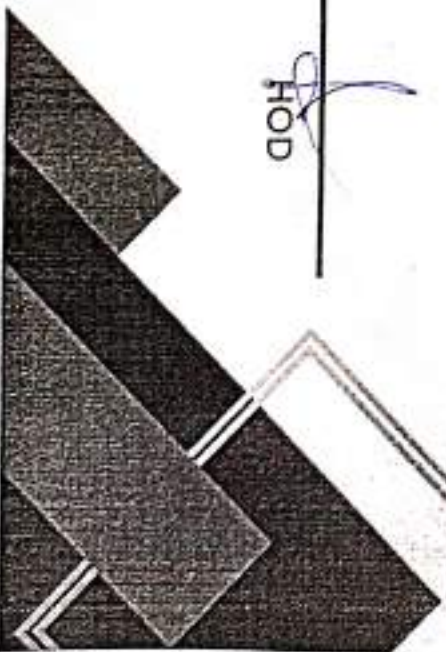
SEMINAR COORDINATOR

_____ *[Signature]* _____

PRINCIPAL
AJAY BINAY INSTITUTE OF TECHNOLOGY
CUTTACK

_____ *[Signature]* _____

HOD _____ *[Signature]* _____



SL NO. :- MCA20/067



CERTIFICATE OF APPRECIATION

PROUDLY PRESENTED TO

_____ PRATUSH PASAYAT _____
REGD NO:- 1901206067

for successfully completing 30hours of Python Full Stack Development training from 27-01-2021 to 24-02-2021 organized by Department of MCA, Ajay Binay Institute of Technology, Cuttack.

_____ Mr _____
SEMINAR COORDINATOR



_____ HOD _____



SL NO. :- MCA20/066



CERTIFICATE OF APPRECIATION

PROUDLY PRESENTED TO

DRATOK KUNRR HOHANTY
REGD NO:- 1901206066

for successfully completing 30hours of Python Full Stack Development training from 27-01-2021 to 24-02-2021 organized by Department of MCA, Ajay Binay Institute of Technology, Curtack.

[Signature]
SEMINAR COORDINATOR

[Signature]
PROGRAM COORDINATOR
AJAY BINAY INSTITUTE OF TECHNOLOGY
CDA, CURTACK

[Signature]
HOD



SL NO. :- MCA20/069



CERTIFICATE OF APPRECIATION

PROUDLY PRESENTED TO

_____ MAHINA NANDA PANDA _____

REGD NO:- 1901206062

for successfully completing 30hours of Python Full Stack Development training from 27-01-2021 to 24-02-2021 organized by Department of MCA, A Jay Binay Institute of Technology, Cuttack.

SEMINAR COORDINATOR

_____ 


PRINCIPAL
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CUTTACK

HOD

_____ 



SL NO. :- MCA20/059



CERTIFICATE OF APPRECIATION

PROUDLY PRESENTED TO

_____ KSHATUN HARENA DEHURY _____
REGD NO:- 1901206059

for successfully completing 30hours of Python Full Stack Development training from 27-01-2021 to 24-02-2021 organized by Department of MCA, A Jay Binay Institute of Technology, Cuttack.

_____ *[Signature]* _____
SEMINAR COORDINATOR

_____ *[Signature]* _____
PRINCIPAL
AJAY BINAY INSTITUTE OF TECHNOLOGY
CDA, CUTTACK

_____ *[Signature]* _____
HOD



SL NO. :- MCA20/056



CERTIFICATE OF APPRECIATION

PROUDLY PRESENTED TO

_____ HRUSHIKESH ROY _____

REGD NO:- 1901206056

for successfully completing 30hours of Python Full Stack Development training from 27-01-2021 to 24-02-2021 organized by Department of MCA, Ajay Binay Institute of Technology, Cuttack.

SEMINAR COORDINATOR

_____  _____


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CDA, CUTTACK

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SL NO. :- MCA20/053



CERTIFICATE OF APPRECIATION

PROUDLY PRESENTED TO

DEPT. MAYE TRIPATHY
REGD NO:- 19D1206053

for successfully completing 30hours of Python Full Stack Development training from 27-01-2021 to 24-02-2021 organized by Department of MCA, A Jay Binay Institute of Technology, Cuttack.

SEMINAR COORDINATOR

PRINCIPAL
AJAY BINAY INSTITUTE OF TECHNOLOGY
CUTTACK

HOD

SL NO. :- MCA20/0 85



CERTIFICATE OF APPRECIATION

PROUDLY PRESENTED TO

_____ DEEPAK MEMBRAN _____

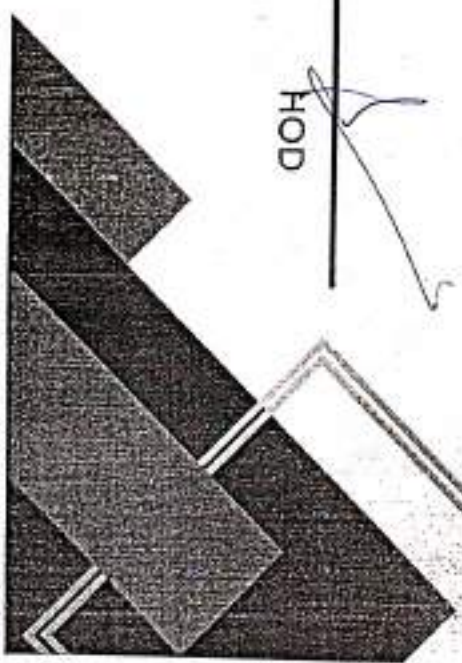
REGD NO:- 1901206185

for successfully completing 30hours of Python Full Stack Development training from 27-01-2021 to 24-02-2021 organized by Department of MCA, A Jay Binay Institute of Technology, Cuttack.

_____ Mr _____
SEMINAR COORDINATOR



_____ HOD _____



SL NO. :- MCA20/014



CERTIFICATE OF APPRECIATION

PROUDLY PRESENTED TO

CHINMAY KANAR

REGD NO:- 1901206114

for successfully completing 30hours of Python Full Stack Development training from 27-01-2021 to 24-02-2021 organized by Department of MCA, Ajay Binay Institute of Technology, Cuttack.

SEMINAR COORDINATOR



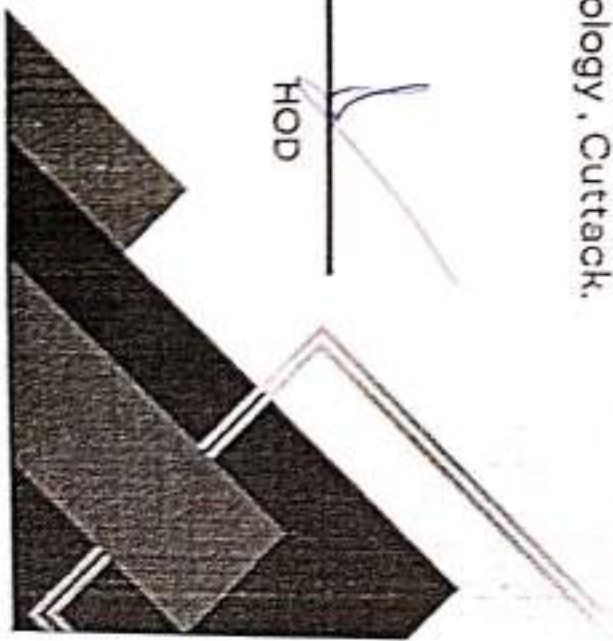
PRINCIPAL



PRINCIPAL
AJAY BINAY INSTITUTE OF TECHNOLOGY
CDA, CUTTACK

HOD





SL NO.: MCA20/084



CERTIFICATE OF APPRECIATION

PROUDLY PRESENTED TO

BIRENDRA MONDAL

REGD NO:- 1901206184

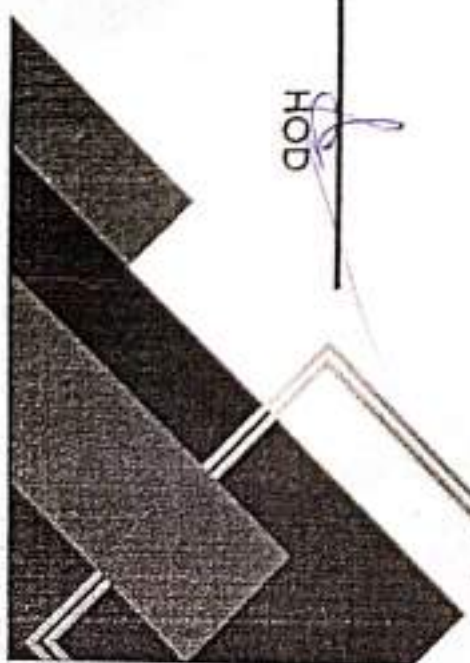
for successfully completing 30hours of Python Full Stack Development training from 27-01-2021 to 24-02-2021 organized by Department of MCA, Ajaib Binay Institute of Technology, Cuttack.

SEMINAR COORDINATOR



AJAIB BINAY INSTITUTE OF TECHNOLOGY
CUTTACK

HOD



SL NO. :- MCA20/044



CERTIFICATE OF APPRECIATION

PROUDLY PRESENTED TO

_____ ALTA PUPUL MOHAPATRA _____

REGD NO:- 1901206044

for successfully completing 30hours of Python Full Stack Development training from 27-01-2021 to 24-02-2021 organized by Department of MCA, Ajay Binay Institute of Technology, Cuttack.

SEMINAR COORDINATOR

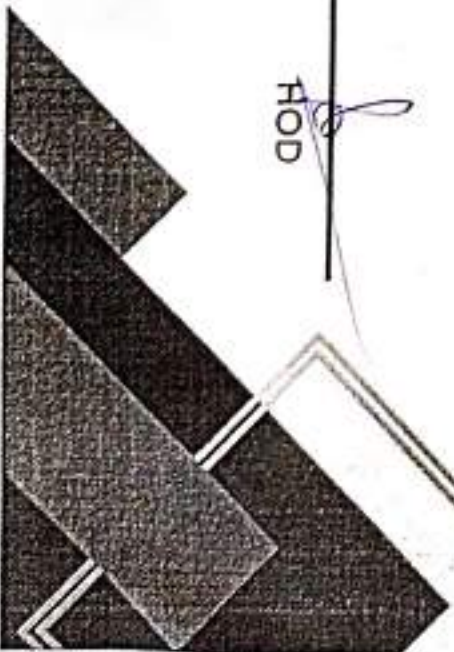
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PRINCIPAL
AJAY BINAY INSTITUTE OF TECHNOLOGY,
CDA, CUTTACK

_____ 

HOD



SL NO. :- MCA20/047



CERTIFICATE OF APPRECIATION

PROUDLY PRESENTED TO

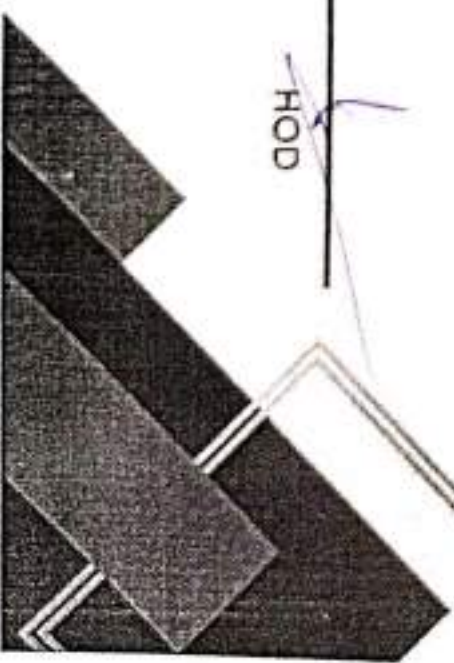
SMRITI SAMIKSHYA DAS
REGD NO:- 2005206047

for successfully completing 30 hours of Python Full Stack Development training from 27-01-2021 to 24-02-2021 organized by Department of MCA, Ajay Bhat Institute of Technology, Cuttack.

[Signature]
SEMINAR COORDINATOR

[Signature]
PRINCIPAL
AJAY BHAT INSTITUTE OF TECHNOLOGY
CDA, CUTTACK

[Signature]
HOD



SL NO. :- MCA20/0



CERTIFICATE OF APPRECIATION

PROUDLY PRESENTED TO

SOMNATH BEHERA

REGD NO:- 1905206032

for successfully completing 30hours of Python Full Stack Development training from 27-01-2021 to 24-02-2021 organized by Department of MCA, A Jay Binay Institute of Technology, Cuttack.

[Signature]
SEMINAR COORDINATOR

[Signature]
PROF. DR. P. P. PAL
AJAY BINAY INSTITUTE OF TECHNOLOGY
CDA, CUTTACK

[Signature]
HOD

SL NO.:- MCA20/0



CERTIFICATE OF APPRECIATION

PROUDLY PRESENTED TO

SANDHYARANI DAS

REGD NO:- 2005206035

for successfully completing 30hours of Python Full Stack Development training from 27-01-2021 to 24-02-2021 organized by Department of MCA, Ajay Binay Institute of Technology, Cuttack.

SEMINAR COORDINATOR

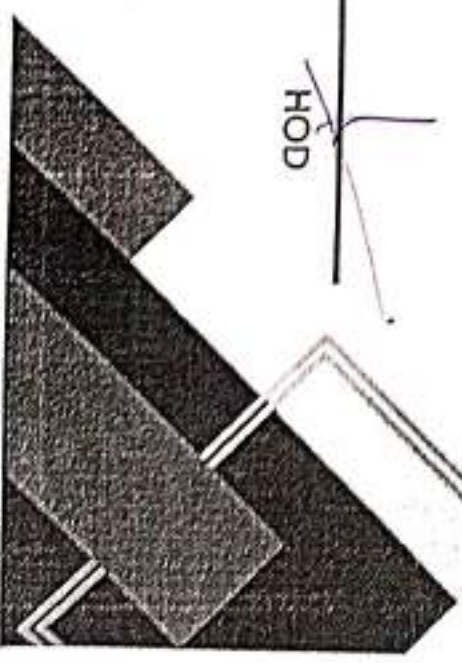




PRINCIPAL
AJAY BINAY INSTITUTE OF TECHNOLOGY
CUTTACK, ODISHA

HOD





SL NO. :- MCA20/032



CERTIFICATE OF APPRECIATION

PROUDLY PRESENTED TO

_____ RATESHWAR PATT _____

REGD NO:- 2005206032

For successfully completing 30hours of Python Full Stack Development training from 27-01-2021 to 24-02-2021 organized by Department of MCA , Ajay Binay Institute of Technology , Cuttack.

_____ As _____
SEMINAR COORDINATOR

_____ Harishankar _____
PRINCIPAL
AJAY BINAY INSTITUTE OF TECHNOLOGY,
CUTTACK

_____ [Signature] _____
HOD



SL NO. :- MCA20/024



CERTIFICATE OF APPRECIATION

PROUDLY PRESENTED TO

_____ PARTHASARATHI PANDA _____

REGD NO:- 2005206024

for successfully completing 30hours of Python Full Stack Development training from 27-01-2021 to 24-02-2021 organized by Department of MCA, Ajay Binay Institute of Technology, Cuttack.

_____ *[Signature]* _____

SEMINAR COORDINATOR

_____ *[Signature]* _____

PRINCIPAL
AJAY BINAY INSTITUTE OF TECHNOLOGY
CDA, CUTTACK

_____ *[Signature]* _____

HOD



SL NO. :- MCA20/010



CERTIFICATE OF APPRECIATION

PROUDLY PRESENTED TO

LPPI NAIK
REGD NO:- 1905206010

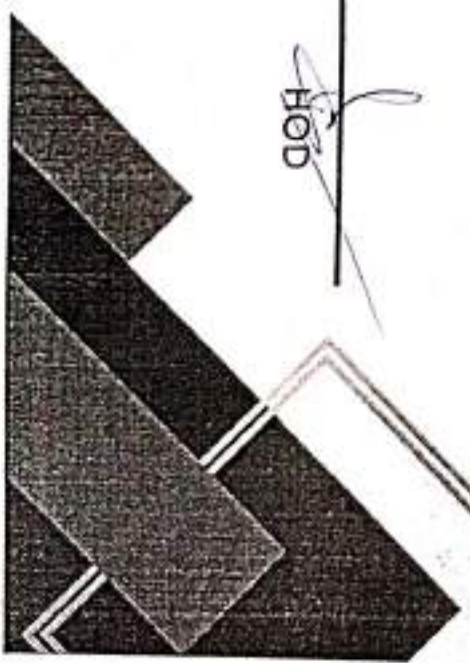
for successfully completing 30hours of Python Full Stack Development training from 27-01-2021 to 24-02-2021 organized by Department of MCA, Ajay Binay Institute of Technology, Cuttack.

SEMINAR COORDINATOR

[Signature]

[Signature]
PRINCIPAL
AJAY BINAY INSTITUTE OF TECHNOLOGY
CUTTACK, ODISHA

[Signature]
HOD



SL NO. :- MCA20/013



CERTIFICATE OF APPRECIATION

PROUDLY PRESENTED TO

_____ RAJSMATTA SAHOO _____

REGD NO:- 2005206013

for successfully completing 30hours of Python Full Stack Development training from 27-01-2021 to 24-02-2021 organized by Department of MCA, Ajay Binay Institute of Technology, Cuttack.

SEMINAR COORDINATOR

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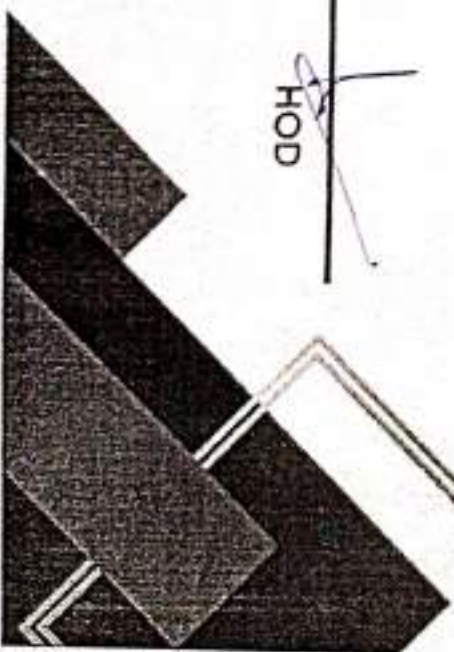
PRINCIPAL

AJAY BINAY INSTITUTE OF TECHNOLOGY
CDA, CUTTACK

_____ 

HOD

_____ 



SL NO. :- MCA20/050



CERTIFICATE OF APPRECIATION

PROUDLY PRESENTED TO

_____ UJASMAJIT SAHOO BOTTEL _____

REGD NO:- 2005206050

for successfully completing 30hours of Python Full Stack Development training from 27-01-2021 to 24-02-2021 organized by Department of MCA, Ajay Binay Institute of Technology, Cuttack.

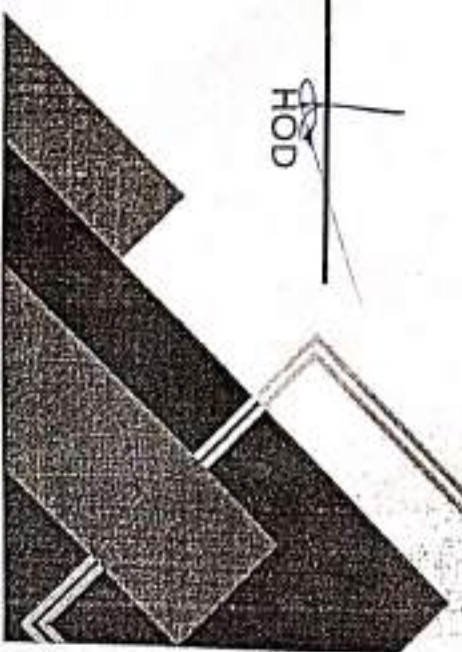
SEMINAR COORDINATOR

_____  _____

PRINCIPAL
AJAY BINAY INSTITUTE OF TECHNOLOGY
CUTTACK

_____  _____

HOD
_____  _____





CERTIFICATE OF APPRECIATION



SL NO. :- MCA20/009

PROUDLY PRESENTED TO

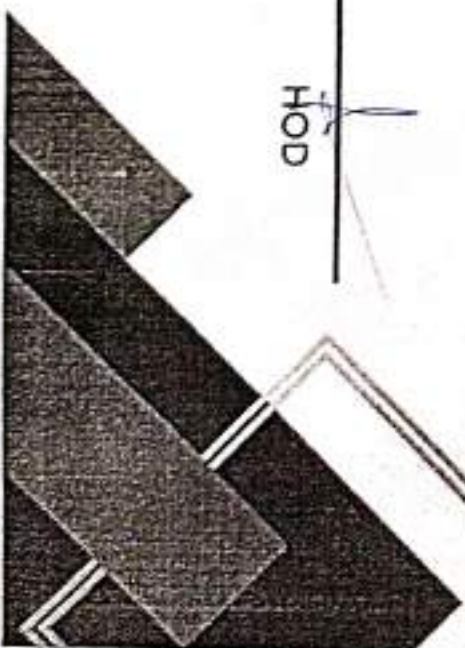
BHAGYASHREE PARIDA
REGD NO:- 2005206009

for successfully completing 30hours of Python Full Stack Development training from 27-01-2021 to 24-02-2021 organized by Department of MCA, Ajay Binay Institute of Technology, Cuttack.

[Signature]
SEMINAR COORDINATOR

[Signature]
PRINCIPAL
AJAY BINAY INSTITUTE OF TECHNOLOGY
CUTTACK

[Signature]
HOD





CERTIFICATE OF APPRECIATION

PROUDLY PRESENTED TO

ADDITYA LENKA

REGD NO:- 19052006001

for successfully completing 30 hours of Python Full Stack Development training from 27-01-2021 to 24-02-2021 organized by Department of MCA, Ajay Binay Institute of Technology, Cuttack.

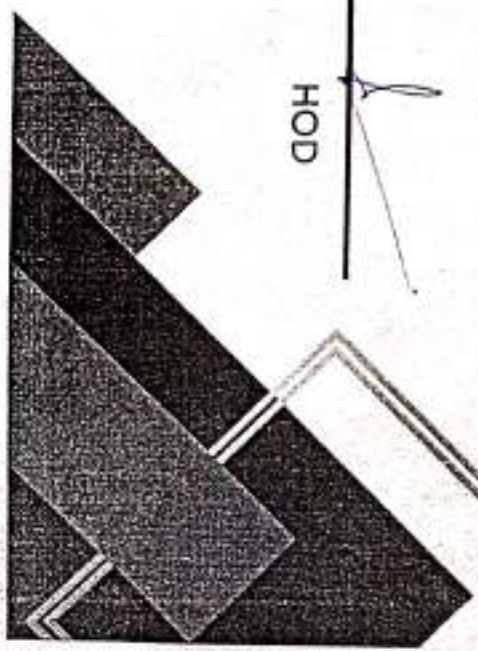
SEMINAR COORDINATOR

PRINCIPAL

PRINCIPAL

AJAY BINAY INSTITUTE OF TECHNOLOGY,
CUTTACK

HOD



VISION OF THE DEPARTMENT

To build a strong research and innovative teaching environment and to produce competent professionals in the field of Computer Science and Engineering.

MISSION OF THE DEPARTMENT

- M1: To prepare the students with strong fundamental concepts, analytical capabilities, programming and problem-solving skills.
- M2: Create an ambience of education through faculty training, self-learning and academic practices.
- M3: Provide opportunities to improve the leadership quality and the potential of students through extra-curricular and co-curricular events.
- M4: To make the students industry ready and enhance their employability in industries.

OBJECTIVE OF THE PROGRAM

Full stack development is the process of designing, creating, testing, and deploying a complete web application. It involves working with various technologies and tools, including front-end and back-end web development, and database development. A full-stack developer is comfortable working with front-end and back-end technologies that power a website or application. Full-stack developers must have a strong understanding of all the technologies and tools involved in web development. They also need to work effectively with others on a team, as web development is typically a collaborative process. Most full-stack developers have a firm foundation in web development technologies, such as HTML, CSS, and JavaScript as well as on server-side technologies such as PHP, Node.js etc. In addition to this they also understand how the various parts of a website or application work together.

FULL-STACK DEVELOPMENT



Course Outcomes:

- To become knowledgeable about the most recent web development technologies.
- Idea for creating two tier and three tier architectural web applications.
- Design and Analyse real time web applications.
- Constructing suitable client and server side applications.
- To learn core concept of both front end and back-end programming.

COURSE COORDINATOR:
 PROF. MONALISA MOHANTY
 ASSISTANT PROFESSOR, DEPT. OF CSE

TARGET PARTICIPANTS
The program is open for students of 2nd year (all departments)



(Signature)
 Principal
 May Binay Institute of Technology
 Sector-11, CDA, Cuttack-751014

VALUE ADDED PROGRAM

ON "FULL STACK DEVELOPMENT"
COURSE CODE: CSE20/PSD

COURSE DURATION:
19TH FEBRUARY to 19TH MARCH, 2021

Organized by
 DEPARTMENT OF
 COMPUTER SCIENCE & ENGINEERING
 MAY BINAY INSTITUTE OF TECHNOLOGY,
 CUTTACK

INTERNAL QUALITY ASSURANCE CELL



VENUE
 ON LINE MODE

(THROUGH GOOGLE CLASSROOM)



Office of Head, Department of Computer Science and Engineering, ABIT

NO. AB19/CCO/2021/21

DATE: 17.02.21

The following students of 2nd year, Computer Science and Engineering are enrolled for the value added program on "Full Stack Development" for the session starting from 19th February to 19th March, 2021 in online mode (through Google classroom). The students are required to contact the course Coordinator Prof. Monalisa Mohanty for more details.

SL. NO.	REGD. NO.	NAME
1	1901206040	ABHIJEET KUMAR SAHOO
2	1901206041	ABHISHEK NAYAK
3	1901206042	ABINASH NAYAK
4	1901206043	AISHI ANURAG
5	1901206044	ALIVA PUPUL MOHAPATRA
6	1901206045	ASHIS KUMAR SAMAL
7	1901206046	ASHISH KUMAR BEHERA
8	1901206047	BABITA BARIK
9	1901206048	BHAGYASHREE NAYAK
10	1901206049	BISWAJEET DAS
11	1901206050	DEBASIS SAHOO
12	1901206052	DHARMESH JHA
13	1901206053	DIPTIMAYEE TRIPATHY
14	1901206054	GAYATRI BISWAL
15	1901206055	HIMANSHU SEKHAR MOHAPATRA
16	1901206056	HRUSHIKESH ROUT
17	1901206057	JYOTRIMAYEE SETHY
18	1901206058	KRISHNA DEBADARSHINI
19	1901206059	KSHITUN HARINA DEHURY
20	1901206060	LALIT RANJAN DAS
21	1901206061	MADHUSMITA MALLIK
22	1901206062	MAHIMANANDA PANDA
23	1901206063	MOZIBUR RAHEMAN KHAN
24	1901206064	NAMRATA SAHOO
25	1901206065	NISHIKANT SAHOO
26	1901206066	PRATIK KUMAR MOHANTY
27	1901206067	PRATYUSH PASAYAT
28	1901206068	PRAVAT KUMAR JENA
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31	1901206071	RITIKA NAYAK
32	1901206072	ROHAN PRADHAN
33	1901206073	RUTIKA MOHANTY
34	1901206074	SAMBIT KUMAR BEHERA
35	1901206075	SAMBIT PATTANAIK
36	1901206076	SANDEEP BARIK

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2) Coordinator, CSE



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Behera
H.O.D
DEPT. OF CSE



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
AJAY BINAY INSTITUTE OF TECHNOLOGY, CUTTACK

LESSION PLAN

FULL STACK DEVELOPMENT

SL. NO.	CLASS NO.	UNIT	TOPIC COVERED
1	1	I	Web development Basics - HTML & Web servers
2	2	I	Shell - UNIX CLI
3	3	I	Version control - Git
4	4	I	Github HTML, CSS
5	5	II	Javascript basics OOPS Aspects of JavaScript Memory usage
6	6	II	Functions in JS AJAX for data exchange with server, jQuery Framework, jQuery events
7	7	II	UI components and JSON data format.
8	8	III	Introduction to React React Router and Single Page Applications React Forms
9	9	III	Flow Architecture and Introduction to Redux
10	10	III	More Redux and Client-Server Communication
11	11	IV	JAVA PROGRAMMING BASICS, Model View Controller (MVC) Pattern
12	12	IV	MVC Architecture using Spring RESTful API using Spring Framework Building an application using Maven.
13	13	V	Relational schemas and normalization Structured Query Language (SQL)
14	14	V	Data persistence using Spring JDBC Agile development principles
15	15	V	Deploying application in Cloud



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FULL STACK DEVELOPMENT

COURSE OBJECTIVES:

1. To become knowledgeable about the most recent web development technologies.
2. Idea for creating two tier and three tier architectural web applications.
3. Design and Analyse real time web applications.
4. Constructing suitable client and server side applications.
5. To learn core concept of both front end and back end programming.

COURSE OUTCOMES:

1. Develop a fully functioning website and deploy on a web server.
2. Gain Knowledge about the front end and back end Tools
3. Find and use code packages based on their documentation to produce working results in a project.
4. Create web pages that function using external data.
5. Implementation of web application employing efficient database access.

UNIT - I

Web Development Basics: Web development Basics - HTML & Web servers Shell - UNIX CLI Version control - Git & Github HTML, CSS

UNIT - II

Frontend Development: Javascript basics OOPS Aspects of JavaScript Memory usage and Functions in JS AJAX for data exchange with server jQuery Framework jQuery events, UI components etc. JSON data format.

UNIT - III

REACT JS: Introduction to React React Router and Single Page Applications React Forms, Flow Architecture and Introduction to Redux More Redux and Client-Server Communication

UNIT - IV

Java Web Development: JAVA PROGRAMMING BASICS, Model View Controller (MVC) Pattern bMVC Architecture using Spring RESTful API using Spring Framework Building an application using Maven

UNIT - V

Databases & Deployment: Relational schemas and normalization Structured Query Language (SQL) Data persistence using Spring JDBC Agile development principles and deploying application in Cloud

TEXT BOOKS:

1. Web Design with HTML, CSS, JavaScript and JQuery Set Book by Jon Duckett Professional JavaScript for Web Developers Book by Nicholas C. Zakas
2. Learning PHP, MySQL, JavaScript, CSS & HTML5: A Step-by-Step Guide to Creating Dynamic Websites by Robin Nixon
3. Full Stack JavaScript: Learn Backbone.js, Node.js and MongoDB. Copyright © 2015 BY AZAT MARDAN

REFERENCE BOOKS:

1. Full-Stack JavaScript Development by Eric Bush.
2. Mastering Full Stack React Web Development Paperback – April 28, 2017 by Tomasz Dyl , Kamil Przeorski , Maciej Czarniecki



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FULL-STACK DEVELOPMENT



CERT. NO. : CSE/20/FSD/2

CERTIFICATE

*This certificate is awarded to
JYOTRIMAYEE SETHY*

*for successfully completing 30 hours of **Full Stack Development** training (from
19/02/2021 to 19/03/2021) organized by Department of Computer Science
Engineering, Ajay Binay Institute of Technology, Cuttack.*

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HOD

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CERT. NO. : CSE/20/FSD/3

CERTIFICATE

This certificate is awarded to

KANHA NAYAK

for successfully completing 80 hours of Full Stack Development training (from 19/02/2021 to 19/03/2021) organized by Department of Computer Science Engineering, Ajay Binay Institute of Technology, Cuttack.

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FULL-STACK DEVELOPMENT



CERT. NO. : CSE/20/FSD/4

CERTIFICATE

This certificate is awarded to

LAXMIPRIYA DAS

for successfully completing 30 hours of Full Stack Development training (from 19/02/2021 to 19/03/2021) organized by Department of Computer Science Engineering, Ajay Binay Institute of Technology, Cuttack.

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FULL-STACK DEVELOPMENT



CERT. NO. : CSE/20/FSD/5

CERTIFICATE

This certificate is awarded to

MOZIBUR RAHEMAN KHAN

for successfully completing 30 hours of Full Stack Development training (from 19/02/2021 to 19/03/2021) organized by Department of Computer Science Engineering, Ajay Binay Institute of Technology, Cuttack.

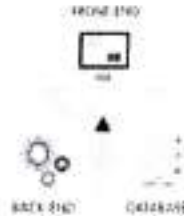
COURSE COORDINATOR

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FULL-STACK DEVELOPMENT



CERT. NO. : CSE/20/FSD/6

CERTIFICATE

This certificate is awarded to

NAMRATA SAHOO

for successfully completing 30 hours of Full Stack Development training (from 19/02/2021 to 19/03/2021) organized by Department of Computer Science Engineering, Ajay Binay Institute of Technology, Cuttack.

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