

**BTECH-INFORMATION
TECHNOLOGY**

REQUISITION LETTER

From,
Head of the Department,
Information Technology,
JKK Munirajah College of Technology,
T.N.Palayam.
To,
The Principal,
JKK Munirajah College of Technology,
T.N.Palayam.
Respected Sir,

Permitted
Sreedh
30/8/21

Sub: Seeking permission for conducting a Certificate Program- Reg

We have planned to conduct a certificate program for II, III and IV year Information Technology students on **"BUILDING PYTHON WEB DEVELOPMENT APPS WITH DJANGO AND FLASK"** from 06.09.2021 to 13.09.2021 by Program Coordinator Ms.K.SUGANYA SRI, SENIOR ANALYST. So, I request you to kindly provide permission to conduct the certificate program.

Thanking You,

K. Suganya Sri
30/08/21

Yours Truly,

Place: T.N.Palayam

Date:30.08.2021

Sreedh

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JKKMCT/CIRCULAR/AUG-21

28/08/2021

CIRCULAR

The Department of Information Technology is planning to organize a Certificate Program on **“BUILDING PYTHON WEB DEVELOPMENT APPS WITH DJANGO AND FLASK” (36 Hours)** for the benefit of the students from **06.08.2021 (Monday) to 13.09.2021 (Monday)**. Students those who are willing to attend the Program can enroll their names to their class in-charges respectively on or before **29.08.2021**.


PRINCIPAL 28/8/21

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All the HODs and Staff Members,
All the Students,
Notice Board, File


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DEPARTMENT OF INFORMATION TECHNOLOGY

PROGRAM SYLLABUS

Name of the Certificate Program: BUILDING PYTHON WEB DEVELOPMENT APPS WITH
DJANGO AND FLASK

Program Code : 21ITBPWADF01

Name of the Program Coordinator: Ms.K.SUGANYA SRI

Academic Year:2021-2022

Program Contents

Total Hours: 36

Chapter 1: Introduction to Python

- Variables Numeric
- Data Types: Int & Float
- Sequential Types: Str & List
- If-Elif-Else Statements
- Creating Python Scripts/Files
- Definite loops: For loops
- Indexing
- Slicing

Chapter 2: Advanced Data Types in Python

- Data Types: tuples
- Dictionaries
- Reading and Writing txt and csv files

Chapter 3: Writing Iterative Code and Algorithms

- Indefinite loops: while loops
- Runtime complexity
- Searching and sorting algorithms
- Custom functions in Python
- Args and Kwargs



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- Importing files

Chapter 4: Working with APIs

- RESTful architecture
- Working with APIs
- Request library

Chapter 5: Introduction to Developer Tools and SQL

- Assert statements
- Testing
- Git
- Intro to SQL
- CRUD

Chapter 6: Introduction to Back-End Web Development using Django

- HTTP protocol
- MVC model
- Virtual environment
- Django structure
- Generic Views
- HTML templates
- URL dispatcher

Chapter 7: Advanced Django for Web and Automation

- Custom Views
- GET and POST methods
- URL shortener
- User model
- Logic in templates
- Querying models
- Serving Staticfiles
- Deployment of Django
- Automating tasks with Django



Chapter 8: Introduction And Overview Flask Syllabus

- Environment & Application
- Routing
- Variables Rules
- Url Building
- Http Methods
- Templates
- Static Files
- Request Object
- Sending Form Data To Template
- Cookies & Sessions
- Redirect And Errors
- Message Flashing
- File Uploading
- Extensions
- Mail
- Wtf
- Sqlite
- Sqlalchemy
- Sijax
- Deployment
- CGI

Prepared by:

Name: **K. SUGIANYA SRD**

Designation: **SENIOR ANALYST**


27/08/21
PROGRAM COORDINATOR


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PROGRAM SCHEDULE

Name of the Certificate Program : BUILDING PYTHON WEB DEVELOPMENT APPS WITH DJANGO AND FLASK

Program Code : 2IITBPWADF01

Name of the Program Coordinator: Ms.K.SUGANYA SRI

Program Period : 06.09.2021 to 13.09.2021

Date/ Time	9:30AM to 11:30AM (2 Hours)		11.45 AM to 12.45PM (1 Hour)		1:30 PM to 4.30 PM (3 Hours)
06-09-2021	Introduction to Python, Variables Numeric, Data Types: Int & Float, Sequential Types: Str & List		If-Elif-Else Statements, Creating Python Scripts/Files		Definite loops: For loops, Indexing , Slicing
07-09-2021	Advanced Data Types in Python, Data Types: tuples		Dictionaries, Reading and Writing txt and csv files		Writing Iterative Code and Algorithms, Indefinite loops: while loops, Runtime complexity
08-09-2021	Searching and sorting algorithms, Custom functions in Python, Args and Kwargs, Importing files		Working with APIs, RESTful architecture, Working with APIs , Request library		Introduction to Developer Tools and SQL, Assert statements, Testing, Git, Intrc to SQL, CRUD
09-09-2021	Introduction to Back-End Web Development using Django, HTTP protocol, MVC model, Virtual environment	BREAK	Django structure, Generic Views, HTML templates, URL dispatcher	LUNCH	Advanced Django for Web and Automation, Custom Views, GET and POST methods
11-09-2021	URL shortener, User model, Logic in templates, Querying models, Serving Staticfiles		Deployment of Django, Automating tasks with Django, Introduction And Overview Flask Syllabus		Environment & Application, Routing, Variables Rules, Url Building, Http Methods PRINCIPAL
13-09-2021	Templates, Static Files, Request Object, Sending Form Data To Template, Cookies & Sessions, Redirect And Errors		Message Flashing, File Uploading, Extensions, Mail, Wtf, Sqlite, Sqlalchemy, Sijax, Deployment, CGI		JKK MUNIRAJAH COLLEGE OF TECHNOLOGY T.N. PALAYAM (Po)-638 506. GOBI (Tk), ERODE (Dt). Feedback and Discussion

H. Suganya Sri
27/09/21
PROGRAM COORDINATOR

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RESOURCE PERSON PROFILE

Title of the Programme	BUILDING PYTHON WEB DEVELOPMENT APPS WITH DJANGO AND FLASK
Duration and Timing of the Programme	36 Hours and 9.30 AM to 4.30 PM
Name of the Resource Person	Ms.K.SUGANYA SRI
Photo Image of the Resource Person	
E-mail	suganyasri.k@hcl.com
Mobile No:	8838329552
Designation	SENIOR ANALYST
Official Address	NO.A3,Aditi Venus Flat, Pillaiyar Kovil Street, Iyyappanthangal, Chennai-600077
Educational Qualification	B.COM, Auxilium College, Vellore
Experience	3 years in BBO, 4 years in banking field in HCL
Field of Interest	Banking



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DEPARTMENT OF INFORMATION TECHNOLOGY

ACADEMIC YEAR 2021-2022

WILLING STUDENTS NAMELIST

CERTIFICATE PROGRAM ON BUILDING PYTHON WEB DEVELOPMENT

APPS WITH DJANGO AND FLASK

S.NO	REGISTER NUMBER	NAME	WILLINGNESS		
			YES	NO	SIGN
IV YEAR					
1	731218205001	CHANDRU K	↗		chandrak
2	731218205002	GOBINATH M	↗		m. Gobindh.
3	731218205003	JAYAKUMAR M	↗		Jayakumar.
4	731218205004	JOTHIKA C	↗		Jothika.c.
5	731218205005	KARVANNAN K	↗		Karvannan
6	731218205007	MAHESHWARI B	↗		mal. B
7	731218205009	MEENA N	↗		n. meena.
8	731218205011	MONISHA S	↗		S.S.
9	731218205012	PRABHAKARAN S	↗		Prabhakar.
10	731218205013	PRASANTH K	↗		P.K. Prasad.
11	731218205014	PRASANTH M	↗		M. Prasad.
12	731218205016	RAGAVAN R	↗		R. Prasad.
13	731218205017	RAJAMANICKAM G	↗		G. Prasad.
14	731218205019	RANJITHA S	↗		S. Prasad.
15	731218205020	REKA N	↗		N. Prasad.
16	731218205021	SAMUVEL T		↗	
17	731218205023	SANMUGAPRIYA R	↗		R. Prasad.
18	731218205025	SIVASHANKAR G	↗		G. Sivashankar



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19	731218205026	SOWNDARYA A	↗		Sowndarya
20	731218205027	SUMATHI M	↗		m.sudhi
21	731218205028	SURYA M	↗		M. Surya
22	731218205029	VASANTHAKUMAR K	↗		(S. S. Vasanthakumar)
III YEAR					
23	731219205002	GOWTHAM.H	↗		G. Gowtham
24	731219205004	MAHANTESH.S	↗		S. Mahantesh
25	731219205005	NANDHINI.R	↗		R. Nandhini
26	731219205007	NAVEEN.S	↗		S. Naveen
27	731219205008	NINGARAJU.S	↗		S. Ningaraju
28	731219205009	NITHYA.K		↗	
29	731219205010	PRABHU.M		↗	
30	731219205011	PRIYADHARSINI.T	↗		T. Priyadharsini
31	731219205014	SARUMATHI.N		↗	
32	731219205018	VAIDEVI.M	↗		M. Vaidevi
33	731219205019	VAIGAIRAJ.M	↗		M. Vaigairaj
II YEAR					
34	731220205001	AJAYSRI. A	↗		A. Ajaysri
35	731220205002	AJITHKUMAR.K		↗	
36	731220205004	DEEPAK.A	↗		A. Deepak
37	731220205005	DEVAKI. V		↗	
38	731220205006	DHARANI.M		↗	
39	731220205007	DHINESHKUMAR .M	↗		M. Dhinesh
40	731220205008	DINESH.S	↗		S. Dinesh
41	731220205009	GOKUL.S	↗		S. Gokul
42	731220205011	KALAISELVI.K	↗		K. Kalai
43	731220205012	KAVIN.P	↗		P. Kavay



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44	731220205013	LENA TAMILVANAN.G	↗		<i>Lena</i>
45	731220205014	MAYILRAJ.V	↗		v. Mayilraj
46	731220205015	MUTHUKUMAR.G	↗		G. Muthukumar
47	731220205016	PANDIYARAJ.C	↗		C. Pandi
48	731220205017	PARVATHY.A	↗		Parvathy P
49	731220205018	PRIYANKA.S	↗		Priyanka.S
50	731220205019	RAMKUMAR.R	↗		R. Ramkumar
51	731220205020	RAVI SANKARAN.N	↗		N. Ravi Sankaran
52	731220205021	SHIJIN KUMAR.K.G	↗		Shijin K.G
53	731220205022	SIVABALAJI.N		↗	
54	731220205023	SRIRAM.V		↗	
55	731220205024	THANGESHWARI.G	↗		G. Thangeshwari
56	731220205301	POORANESHWARAN.N	↗		N. Pooraneshwaran
57	731220205302	RAVINDHIRAN.R	↗		R. Ravindhiran
58	731220205303	SHILPA.C	↗		C. Shilpa

A. Sundari
PROGRAM COORDINATOR

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DEPARTMENT OF INFORMATION TECHNOLOGY
ACADEMIC YEAR 2021-2022

**CERTIFICATE PROGRAM ON BUILDING PYTHON WEB DEVELOPMENT APPS WITH
DJANGO AND FLASK
ENROLLED STUDENTS NAMELIST**

DATE: 06.09.2021 to 13.09.2021

S.NO	REG. NO	NAME
IV YEAR		
1	731218205001	CHANDRU K
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24	731219205005	NANDHINI.R



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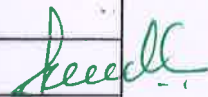
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25	731219205007	NAVEEN.S
26	731219205008	NINGARAJU.S
27	731219205011	PRIYADHARSINI.T
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32	731220205007	DHINESHKUMAR .M
33	731220205008	DINESH.S
34	731220205009	GOKUL.S
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37	731220205013	LENA TAMILVANAN.G
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39	731220205015	MUTHUKUMAR.G
40	731220205016	PANDIYARAJ.C
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47	731220205301	POORANESHWARAN.N
48	731220205302	RAVINDHIRAN.R
49	731220205303	SHILPA.C


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41	731220205017	PARVATHY.A	1	1	1	1	1	1	1	1	1	1	1	1
42	731220205018	PRIYANKA.S	1	1	1	1	1	1	1	1	1	1	1	1
43	731220205019	RAMKUMAR.R	1	1	1	1	1	1	1	1	1	1	1	1
44	731220205020	RAVI SANKARAN.N	1	1	1	1	1	1	1	1	1	1	1	1
45	731220205021	SHIJIN KUMAR.K.G	1	1	1	1	a	a	1	1	1	1	1	1
46	731220205024	THANGESHWARI.G	1	1	1	1	1	1	1	1	1	1	1	1
47	731220205301	POORANESHWARAN.N	1	1	1	1	1	1	1	1	1	1	1	1
48	731220205302	RAVINDHIRAN.R	1	1	1	1	1	1	1	1	a	a	1	1
49	731220205303	SHILPA.C	1	1	1	1	1	1	1	1	1	1	1	1
TOTAL NO OF STUDENTS PRESENT			49	49	49	49	47	47	49	49	47	47	49	49
TOTAL NO OF STUDENTS ABSENT			nil	nil	nil	nil	02	02	nil	nil	02	02	nil	nil
SIGNATURE OF THE PROGRAM COORDINATOR			<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
SIGNATURE OF THE HOD			<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

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DEPARTMENT OF INFORMATION TECHNOLOGY
ACADEMIC YEAR 2021-2022

BUILDING PYTHON WEB DEVELOPMENT APPS WITH DJANGO AND FLASK
ASSESSMENT

ANSWER ALL QUESTIONS (30*1=30 MARKS)

1. Flask is a web development framework created in _____ language.

- A. C
- B. Java
- C. Python
- D. Javascript

2. Is the Flask framework open source?

- A. TRUE
- B. FALSE
- C. Can be true or false
- D. Can not say

3. It is released under the _____ Clause.

- A. BSD-0
- B. BSD-1
- C. BSD-2
- D. BSD-3

4. How to add the mailing feature in the Flask Application?

- A. pip install Flask
- B. pip install Flask-Mail
- C. install Flask-Mail
- D. pip Flask-Mail

5. WSGI stands for the?

- A. Write Server Gateway Interface
- B. Web Static Gateway Interface
- C. Web Server Gateway Interface
- D. Web Server Gateway Interact



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6. Flask default port is?

- A. 2000
- B. 3000
- C. 4000
- D. 5000

7. Flask default host is a localhost (127.0.0.1)

- A. TRUE
- B. FALSE
- C. Can be true or false
- D. Can not say

8. Flask is called a?

- A. miniframework
- B. microframework
- C. peraframework
- D. nanoframework

9. Which of the following are the benefits of using the Flask framework?

- A. It has an inbuilt development server.
- B. It has vast third-party extensions.
- C. It is WSGI compliant.
- D. All of the above

10. Flask works with most of the RDBMSs, such as?

- A. PostgreSQL
- B. SQLite
- C. MySQL
- D. All of the above

11. _____ is used as a global namespace for holding any data during the application context.

- A. Flask a object
- B. Flask f object



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- C. Flask g object
- D. Flask q object

12. Forms in Flask can be implemented by using an extension called ?

- A. Flask-ATF
- B. Flask-WTF
- C. Flask-GTM
- D. Flask-ZIP

13. The _____ decorator in Flask is used to bind URL to a function.

- A. route()
- B. rend()
- C. read()
- D. write()

14. Which function takes up the floating point number as argument?

- A. reverse()
- B. show_blog()
- C. route()
- D. revision()

15. Armin Ronacher created the Flask framework.

- A. TRUE
- B. FALSE
- C. Can be true or false
- D. Can not say

16. The _____ method of request.cookies attribute is used to read a cookie.

- A. read()
- B. get()
- C. set()
- D. find()

17. We can create an Admin interface in Flask using the Flask-Admin extension.

- A. TRUE
- B. FALSE



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- C. Can be true or false
- D. Can not say

18. To release a session variable use _____ method.

- A. go()
- B. pull()
- C. pop()
- D. explode()

19. To integrate with Flask, we can make use of a Flask extension called Flask-Social.

- A. TRUE
- B. FALSE
- C. Can be true or false
- D. Can not say

20. Which of the following provides SMTP interface to Flask application?

- A. Flask Sijax
- B. Flask SQLAlchemy
- C. Flask WTF
- D. Flask Mail

21. Which of the following method replaces the submitted content with all current representations of the target resource?

- A. Get
- B. Head
- C. Post
- D. Put
- E. Delete

22. Which of the following method removes all existing representations of the resource specified by a URL?

- A. Remove
- B. Del
- C. Eliminate
- D. Delete



23. Which of the following is the most often used approach and sends data to the server in an unencrypted format?

- A. Get
- B. Head
- C. Post
- D. Put
- E. Delete

24. Which of the following method is the same as the GET method but it does not have any response body?

- A. Get
- B. Head
- C. Post
- D. Put
- E. Delete

25. All the CSS and JavaScript files are stored in which of the following folder?

- A. Static
- B. Component
- C. Root
- D. Config

26. Which of the following method is used to render a template?

- A. Render
- B. Template_render()
- C. Template
- D. Render_template()

27. Flask will look in the ____ folder for templates?

- A. Static
- B. Application
- C. Template

28. To render the contents of a block defined in the parent template, which of the following function is used?

- A. `{{ super() }}`



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B. {{ parent }}

C. Super {}

D. {Body() }

29. The conditional statements if-else and endif are enclosed in delimiter ____?

A. [%..%]

B. (%..%)

C. {%..%}

30. Is it necessary to include enctype="multipart/form-data" in your form every time to upload files?


A. Yes

B. No


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DEPARTMENT OF INFORMATION TECHNOLOGY

ACADEMIC YEAR 2021-2022

CERTIFICATE PROGRAM ON BUILDING PYTHON WEB DEVELOPMENT APPS WITH DJANGO AND FLASK STUDENTS MARKLIST

DATE: 06.09.2021 to 13.09.2021

S.NO	REG. NO	NAME	MARKS
IV YEAR			
1	731218205001	CHANDRU K	82
2	731218205002	GOBINATH M	78
3	731218205003	JAYAKUMAR M	92
4	731218205004	JOTHIKA C	85
5	731218205005	KARVANNAN K	95
6	731218205007	MAHESHWARI B	72
7	731218205009	MEENA N	88
8	731218205011	MONISHA S	98
9	731218205012	PRABHAKARAN S	89
10	731218205013	PRASANTH K	99
11	731218205014	PRASANTH M	76
12	731218205016	RAGAVAN R	84
13	731218205017	RAJAMANICKAM G	68
14	731218205019	RANJITHA S	85
15	731218205020	REKA N	80
16	731218205023	SANMUGAPRIYA R	73
17	731218205025	SIVASHANKAR G	91
18	731218205026	SOWNDARYA A	94
19	731218205027	SUMATHI M	93
20	731218205028	SURYA M	86
21	731218205029	VASANTHAKUMAR K	76
III YEAR			
22	731219205002	GOWTHAM.H	85
23	731219205004	MAHANTESH.S	94



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24	731219205005	NANDHINI.R	64
25	731219205007	NAVEEN.S	87
26	731219205008	NINGARAJU.S	93
27	731219205011	PRIYADHARSINI.T	91
28	731219205018	VAIDEVI.M	76
29	731219205019	VAIGAIRAJ.M	63
II YEAR			
30	731220205001	AJAYSRI. A	67
31	731220205004	DEEPAK.A	73
32	731220205007	DHINESHKUMAR .M	44
33	731220205008	DINESH.S	40
34	731220205009	GOKUL.S	88
35	731220205011	KALAISELVI.K	83
36	731220205012	KAVIN.P	74
37	731220205013	LENA TAMILVANAN.G	72
38	731220205014	MAYILRAJ.V	41
39	731220205015	MUTHUKUMAR.G	89
40	731220205016	PANDIYARAJ.C	96
41	731220205017	PARVATHY.A	80
42	731220205018	PRIYANKA.S	84
43	731220205019	RAMKUMAR.R	75
44	731220205020	RAVI SANKARAN.N	92
45	731220205021	SHIJIN KUMAR.K.G	87
46	731220205024	THANGESHWARI.G	93
47	731220205301	POORANESHWARAN.N	76
48	731220205302	RAVINDHIRAN.R	49
49	731220205303	SHILPA.C	89

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Note: The students those who have secured above 50 Marks and above are consider eligible for program completion.

A. Suresh Pri
PROGRAM COORDINATOR

[Signature]
HOD

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DEPARTMENT OF INFORMATION TECHNOLOGY

ACADEMIC YEAR 2021-2022

SUMMARY/ OUTCOME REPORT

Name of the Certificate Program : Building Python Web Development Apps With Django And Flask

Program Code : 21ITBPWADF01

Name of the Program Coordinator : Ms.K.SUGANYA SRI

Number of Students Enrolled : 49 **Duration** : 36 Hours

Number of Students Completed : 45

I hereby affirm that the entire Program contents in the Certificate Program “Building Python Web Development Apps With Django And Flask” listed in the Syllabus have been actually learned by the students as the part of the prescribed co-curricular activities through Certificate Program.

I confirmed that the Certificate Program title as Building Python Web Development Apps With Django And Flask Work Bench was done by me in the beginning of this semester and Program delivery with attendance of the students were recorded.

I confirmed that all registered students for this Certificate Program were actively attended and learned well throughout the duration of this Program. And all students were successfully completed and eligible to receive the participation certificate.

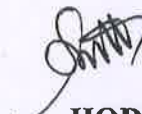
OUTCOME: Students shall be able to gain the knowledge in


- (i) The collections of libraries and modules are a fantastic way to create websites, web applications, and web services programmatically
- (ii) To determine which framework to choose, this article has looked at Flask vs Django with a head-to-head comparison of the key features, pros and cons, and best use cases
- (iii) To get a full-stack web framework with a ‘batteries included’ approach that’s excellent for large projects that require security and scalability.

Name : K. SUGANYA SRI

Designation : SENIOR ANALYST


PROGRAM COORDINATOR


HOD


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This is to certify that Mr/Mrs. VASANTHAKUMAR of

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Duration: **05.09.2021 to 13.09.2021**


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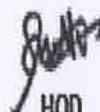
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
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IV - B has successfully completed the Add on

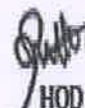
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IV-F has successfully completed the Add on

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This is to certify that Mr/Mrs RAGAVANR of

IV-IT has successfully completed the Add on

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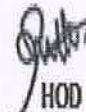
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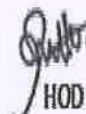
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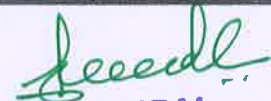
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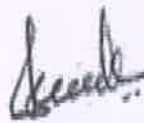
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This is to certify that Mr/Mrs. GOBATH M of

IV - IT has successfully completed the Add on

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This is to certify that Mr/Ms. CHANDUK of

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IT II YEAR

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has successfully completed the Add on

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This is to certify that Mr/Mrs. PRIYA PARENT of
IT has successfully completed the Add on

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This is to certify that Mr/Mrs. NAVEN S of

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This is to certify that Mr/Mrs. MAHANTESH S. of

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This is to certify that Mr/Mrs. GOWTHAM H of

B.T has successfully completed the Add on

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This is to certify that Mr/Mrs. THANESHAZ G of

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This is to certify that Mr/Mrs. SHLPAC of
I-IT has successfully completed the Add on

course titled "**BUILDING PYTHON WEB DEVELOPMENT APPS WITH DJANGO
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Duration: **06.09.2021 to 13.09.2021**


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This is to certify that Mr/Mrs. SHEN KUMAR, K.G. of

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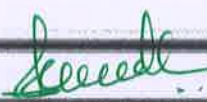
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This is to certify that Mr/Mrs. MAYLAJ V of

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This is to certify that Mr./Mrs. LENA TAMILVANNI G of

LT has successfully completed the Add on

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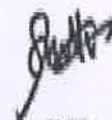
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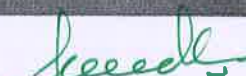
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