PYTHON WITH DJANGO

MALLAREDDY ENGINEERING COLLEGE

(Autonomous)

Maisammaguda(H),
GundlapochampallyVillage,MedchalMandal, Medchal-
MalkajgiriDistrict,Telangana State – 500100

CIRCULAR

Date: 10/03/2021

All the2nd/IIYear/Sem students are hereby informed that the MallaReddy Engineering College(Autonomous)is planning to organize Value Added Courses like IndusrialRobotics,Multimedia - 2D Basic Concepts, Green Matte Studio - Video Effects/Transitions, Different Technologies of Additive Manufacturing, PYTHON With DJANGO, Foundations Of Blockchain, Labviewin Centre Of Excellence.In this regard Interested students are hereby directed toregister for thisCourses in onlineon or before 15/03/2021. For further details, pleasecontact Centre of Excellence, MREC(A)

Principal

PRINCIPAL
Malla Reddy Engineering College
(Autonomous)
Maisammaguda, Dhulapally,
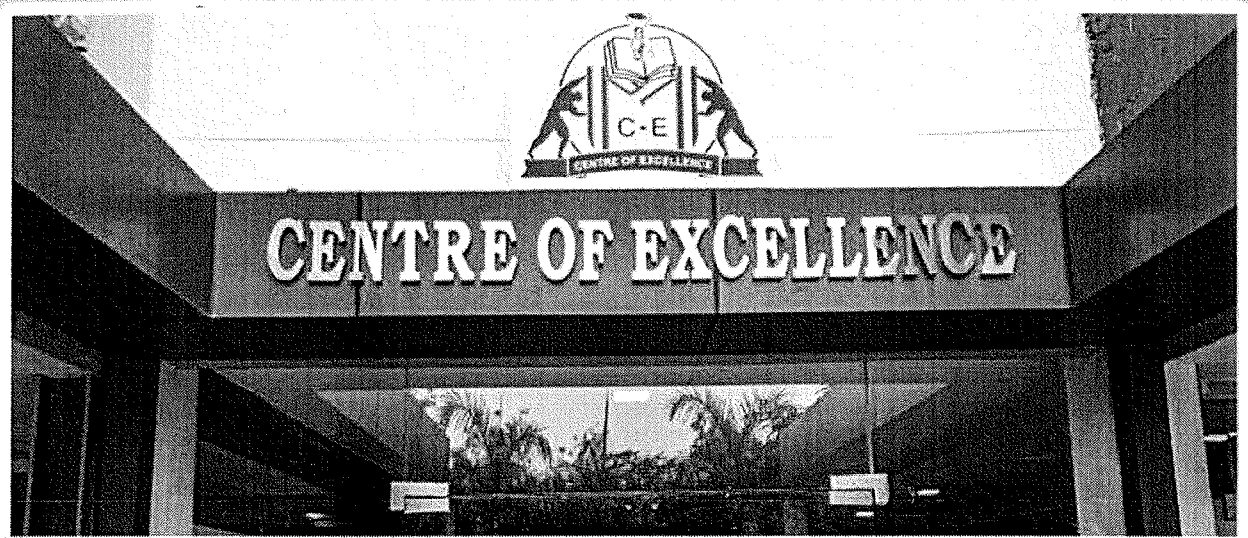(Post Via Kompally), Sec'bad-500 100

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1. All HOD's-for information & circulation among staff
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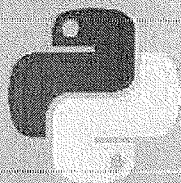14. PA to Principal for Filling

MALLA REDDY ENGINEERING COLLEGE
MAIN CAMPUS, AUTONOMOUS INSTITUTION
Maisammaguda, Dhulapally (Post) via Kompally,
Secunderabad-500100Medchal – Malkajgiri District Telangana, India

COMPUTER SOFTWARE

HTML ,PYTHON WITH DJANGO ,JAVA , SCRATCH PROGRAMMING

LAB VIEW, FOUNDATION OF BLOCK CHAIN, MATLAB, BLOCK CHAIN REVOLUTION, MATLAB PRO, ADVANCE JAVA, ADVANCE PYTHON.

python   Java

Course Duration –: 4 Months

Before Software can be Reusable it First has to be Usable.

Python with DJANGO

Course Code: CFEC04   **Duration:30Hours**

Course Objective: This course covers the following topics like Introduction to Django, Installation of Django, The Basics of Dynamic Web Pages, The Django Template System, interacting with a Database: Models, The Django Administration Site, Form Processing, Advanced Views and URL configurations, Generic Views,Extending the Template Engine, Generating Non-HTML Content, Sessions, Users and Registration

Syllabus

UNIT-I: **6Hours**

Introduction to Django

What Is a Web Framework? The MVC Design Pattern, Django's History
Installation of Django

Installing Python, Installing Django, Setting Up a Database, Starting a Project , The Development Server, Django Commands Overview

The Basics of Dynamic Web Pages

Your First View: Dynamic Content, Mapping URLs to Views, How Django Processes a Request, URL configurations and Loose Coupling , Your Second View: Dynamic URLs, A Word About Pretty URLs, Wildcard URL patterns, Django's Pretty Error Pages

The Django Template System

Template System Basics, Using the Template System, Creating Template Objects, Rendering a Template, Multiple Contexts, Same Template, Context Variable Lookup, Playing with Context Objects, Basic Template Tags and Filters Tags, Philosophies and Limitations, Using Templates in Views, Template Loading, render_to_response(), The locals() Trick, Subdirectories in get_template(), The include Template Tag. Template Inheritance

UNIT-II: **6Hours**

Interacting with a Database: Models

The "Dumb" Way to Do Database Queries in Views, The MTV Development Pattern, Configuring the Database, Your First App
Defining Models in Python, Your First Model, Installing the Model, Basic Data Access, Adding Model String Representations
Inserting and Updating Data, Selecting Objects, Filtering Data, Retrieving Single Objects, Ordering Data, Chaining Lookups, Slicing Data, Deleting Objects,Making Changes to a Database Schema, Adding Fields, Removing Fields, Removing Many to Many Fields, Removing Models

The Django Administration Site

Activating the Admin Interface, Using the Admin Interface, Users, Groups and Permissions, Customizing the Admin Interface, Customizing the Admin Interface's Look and Feel, Customizing the Admin Index Page Form Processing

Search, the "Perfect Form", Creating a Feedback Form, Processing the Submission, Custom Validation Rules, A Custom Look and Feel, Creating Forms from Models

UNIT-III: **6Hours**

Advanced Views and URL configurations

URL configuration Tricks, Streamlining Function Imports, Using Multiple View Prefixes

Special-Casing URLs in Debug Mode, Using Named Groups, Understanding the Matching/Grouping Algorithm

Passing Extra Options to View Functions, Using Default View Arguments, Special-Casing Views

Capturing Text in URLs, Determining What the URL configuration Searches Against, Including Other URL configurations
How Captured Parameters Work with include(), How Extra URL configurations Options Work with include()

Django Sub Framework
Generic Views,

Using Generic Views, Generic Views of Objects, Extending Generic Views, Making "Friendly" Template Contexts

Adding Extra Context, Viewing Subsets of Objects, Complex Filtering with Wrapper Functions, Performing Extra Work

UNIT-IV: 6Hours
Extending the Template Engine

Template Language Review, Request Context and Context Processors, django.core.context_processors.auth django.core.context_processors.debug, django.core.context_processors.i18n django.core.context_processors.request, Guidelines for Writing Your Own Context Processors, Inside Template Loading, Extending the Template System, Creating a Template Library, Writing Custom Template Filters, Writing Custom Template Tags, Shortcut for Simple Tags, Inclusion Tags, Writing Custom Template Loaders, Using the Built-in Template Reference, Configuring the Template System in Standalone Mode

Generating Non-HTML Content

The Basics: Views and MIME Types, Producing CSV, Generating PDFs, Installing Report Lab, Writing Your View, Complex PDFs, Other Possibilities, The Syndication Feed Framework, Initialization. A Simple Feed, A More Complex Feed, Specifying the Type of Feed, Enclosures, Language, URLs, Publishing Atom and RSS Feeds in Tandem, The Sitemap Framework, Installation, Initialization, Sitemap Classes, Shortcuts, Creating a Sitemap Index, Pinging Google

UNIT-V: 6Hours
Sessions, Users and Registration

Cookies, Getting and Setting Cookies, The Mixed Blessing of Cookies, Django's Session Framework, Enabling Sessions, Using Sessions in Views, Setting Test Cookies, Using Sessions Outside of Views, When Sessions Are Saved, Browser-Length Sessions vs Persistent Sessions, Other Session Settings, Users and Authentication, Enabling Authentication Support, Using Users, Logging In and Out, Limiting Access to Logged-in Users, Limiting Access to Users Who Pass a Test, Managing Users, Permissions and Groups, Using Authentication Data in Templates, The Other Bits: Permissions, Groups, Messages and Profiles, Permissions , Groups, Messages, Profiles

Course Outcomes: In this Django Course student will learn how to get started with Django Web Framework & build a Employee database management system app

	MALLA REDDY ENGINEERING COLLEGE (Autonomous) Maisammaguda(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100	Course:- PYTHON WITH DJANGO
		Date:12/03/2021 TO 14/07/2021

Enrolled Students

SL.No	Roll No	NAME	BRANCH
1.	19J41A0142	PATLAVATH SRAVAN KUMAR	CE
2.	19J41A0143	PEDIMALLA PRANITH KUMAR	CE
3.	19J41A0144	PENGARLA SHAM SUNDER	CE
4.	19J41A0145	RAJAMPET PREETHAM KUMAR	CE
5.	19J41A0146	RAVULA JYOTHSNA	CE
6.	19J41A0147	RAYAPALLY SATHWIK REDDY	CE
7.	19J41A0148	SAIDU SRAVYA	CE
8.	19J41A0149	SALIPURAM SAI GANESH	CE
9.	19J41A1241	MERUGU SHRUTHI	IT
10.	19J41A1242	MIRZA MASROOR BAIG	IT
11.	19J41A1243	MOHAMMED BILAL	IT
12.	19J41A1244	MOHD ANSARUDDIN	IT
13.	19J41A1245	PALLAKONDA PRIYANKA	IT
14.	19J41A1246	PARIMKAYALA SOWMYA SRI	IT
15.	19J41A1247	PODDUTURI AKANKSHA	IT
16.	19J41A1248	POTTA GANESH	IT
17.	19J41A0244	PULLURI HARSHITH	EEE
18.	19J41A0245	RAMALLA PAWAN	EEE
19.	19J41A0246	S SUMANTH	EEE
20.	19J41A0247	SANGARAJU KRISHNA SAI	EEE
21.	19J41A0248	SHAIK BAJI BABA	EEE
22.	19J41A0249	SHREEYA MISHRA	EEE
23.	19J41A0250	SIRIPURAM SANDEEP	EEE
24.	19J41A0251	S.ADITHYA	EEE
25.	19J41A0252	SUMAYYA THOUFIYA	EEE
26.	19J41A0334	MADAPATHI VIDHYADHER	ME
27.	19J41A0335	MAHENDRAN MOHAN	ME
28.	19J41A0335	MANDA HARIVARDHAN REDDY	ME
29.	19J41A0336	NEERUDI GOUTHAM	ME
30.	19J41A0337	NYALAKANTI VINOD	ME
31.	19J41A0338	PAGADALA MANISAI DEEP	ME
32.	19J41A0339	PISATI SHASHANK REDDY	ME
33.	19J41A0340	PULI NARESH	ME
34.	19J41A0447	PEDDIRAJU RAJASHEKHAR REDDY	ECE
35.	19J41A0448	PINNAKA SAI SURYA	ECE
36.	19J41A0449	RAYARAO SHREYA	ECE
37.	19J41A0450	RUDRU GANGA MOHAN REDDY	ECE
38.	19J41A0451	SARIKONDA ABHINAVAN	ECE
39.	19J41A0452	SHABEER MOHAMMED	ECE
40.	19J41A0453	SHAIK SADHIK	ECE
41.	19J41A0454	SHIKA SAHANA JYOTHI	ECE
42.	19J41A0455	SOUDARAPU NITHIN CHARY	ECE
43.	19J41A2524	MACHARLA PRASHANTH	MINING
44.	19J41A2525	MOHAMMAD SOHAIL ZAHEER	MINING
45.	19J41A2526	MORLA SRIDHAR BABA	MINING
46.	19J41A2527	MOTE MANISH	MINING
47.	19J41A2528	PAUNIKAR ARPIT RAMESH	MINING

48.	19J41A2529	PERUKA THARUN	MINING
49.	19J41A2530	DASARI NEHANTH NIKHIL	MINING
50.	19J41A0552	SOTHUKU VEDA RUTHVIK	CSE
51.	19J41A0553	TALLAPUREDDY ROHITH REDDY	CSE
52.	19J41A0555	TEJASWINI REDDY	CSE
53.	19J41A0556	V RAM NIVAS	CSE
54.	19J41A0557	VAIBHAV PATIL	CSE
55.	19J41A0558	VANKUDOTHU SINDHU	CSE
56.	19J41A0559	VODNALA RAJKAMAL	CSE
57.	19J41A0560	VUPPALA SREEANUSHA	CSE
58.	19J41A0561	ADDALA SRIVATSA GAURAV	CSE
59.	19J41A0562	ADUPALLY THIRUMAL REDDY	CSE
60.	19J41A0552	SOTHUKU VEDA RUTHVIK	CSE

MALLA REDDY ENGINEERING COLLEGE

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CERTIFICATE

OF COURSE COMPLETION

This is to Certify that

MANDALOJU SANJAY KUMAR

has Sucessfully Completed Python With Django
Course offered by Centre of Excellence,
MREC(A) on _____01/02/2021_____ bearing with
Roll No. ___19J41A0435___ and Branch _____ECE_____.

N. RISHIKANTH
DEAN (COE)

Dr.A.Ravendra
Principal

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(Post Via Kompally), Sec'bad-500 100

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CERTIFICATE
OF COURSE COMPLETION

This is to Certify that

PODDUTURI AKANKSHA

has Sucessfully Completed Python With Django
Course offered by Centre of Excellence,
MREC(A) on   01/02/2021   *bearing with*
Roll No.   19J41A1247   *and Branch*   IT   .

N. RISHIKANTH
DEAN (COE)

Dr.A.Ravendra
Principal

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CERTIFICATE

OF COURSE COMPLETION

This is to Certify that

S.ADITHYA

has Sucessfully Completed Python With Django
Course offered by Centre of Excellence,
MREC(A) on _____01/02/2021_____ bearing with
Roll No. ____19J41A0251____ and Branch _____EEE_____.

N. RISHIKANTH
DEAN (COE)

Dr.A.Ravendra
Principal

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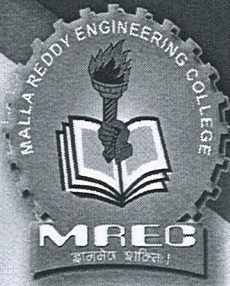### OF COURSE COMPLETION

This is to Certify that

PAUNIKAR ARPIT RAMESH

has Sucessfully Completed Python With Django Course offered by Centre of Excellence, MREC(A) on 01/02/2021 *bearing with* Roll No. 19J41A2528 *and Branch* MINING.

N. RISHIKANTH
DEAN (COE)

Dr.A.Ravendra
Principal

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This is to Certify that

VAIBHAV PATIL

has Sucessfully Completed Python With Django
Course offered by Centre of Excellence,
MREC(A) on __01/02/2021__ *bearing with*
Roll No. __19J41A0557__ *and Branch* __CSE__.

N. RISHIKANTH
DEAN (COE)

Dr.A.Ravendra
Principal

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