AQAR 2021-22



1.3 Curriculum Enrichment
1.3.3 Value Added Course Report- Computer Science

REPORT OF THE VALUE ADDED COURSE: DATA ANALYTICS USING PYTHON

Registration and Confirmation Process

A registration form was prepared and the link was posted over Google Classrooms of UG and PG Science Students. There were totally 210 students were registered the course using the Google registration forms, among them 127 UG and PG science departments students (both Shift-I and II) were paid their fees through college online payment mechanism and joined the course.

Batches

The registered participants were divided into two batches. The online course for batch-1 was carried between 3.00 PM to 4.30 PM and for the batch two, the course was conducted between 6.30 PM to 8.00 PM. There are 72 students and 55 students were accommodated in batch-1 and 2 respectively.

Inauguration

The course was inaugurated on 30-09-2021 at 3.30 pm for both Batch 1 and Batch 2. The head of the department welcomed the dignitaries and the participants. Dr. A. Aloysius, coordinator of the course briefed the dynamics of the course. Rev. Dr. M. Arockiasamy Xavier SJ, Principal and Rev. Dr. S. Peter SJ, Secretary offered his felicitation. Fr. Principal encouraged and motivated the students to learn and to acquire skills making use of value added course offered by the computer science department.

The course was conducted from 30th September 2021 to 10th November 2021 with the total duration of 46 hours. We had resource persons from within and outside college namely Dr. P. Kalpana from Comp. Sci. department of NMC and Dr. S. Mala Head, Data Science, NMC along with the resource persons our college Dr. V. Arul Kumar, Asst. Prof., Dept. of Data Science and Dr. V. Jude Nirmal from CS department along with the resource person cum. Coordinators of the course Dr. A. Aloysius and Dr. K. Maheswaran.

During the course, the attendance and feedback were collected through Google form every day. The course materials were shared using whatsapp groups. The overall feedback of the course also collected at the end of the course. The students felt that the course was very much useful to enrich their knowledge.

Evaluation

A mid-term examination was conducted for half an hour and a final examination was conducted for one and half hours which was also evaluated and taken into consideration for issuing the certificates. The students having more than 60% of attendance and 40% of marks in the tests will receive their course completion certificate. There are 117 out of 128 students were completed the course as per criteria.

Valediction:

The valediction function of the value added course was held on 10-11-2021 at 3.30PM for the both Batch 1 and 2. Prof. A. Charles welcomed the gathering. Dr. A. Aloysius, Coordinator of the course read the detailed report the value added course: Data Analytics. The students shared the feedback about the course. Students shared that the course was very useful, affordable and helpful for their carrier. Rev. Fr. Principal and Rev. Fr. Secretary appreciate the department and the course coordinators for their successful completion of the course and the good feedback about the course from the students. The meeting came to an end with the thanking note of the course coordinator Dr. K. Maheswaran at 4.30 PM.

American Profession in Computing Science of Computing Science St. Journal & College 1 Aug.

Thrushammer - 220 (65)

COURS COOKDINATION

Inaugural Invitation





Accredited at A++ Grade (4th cycle) by NAAC Special Heritage Status Awarded by UGC College with Potential for Excellence by UGC DBT-STAR & DST-FIST Sponsored College



The staff and students of the department cordially invite you to the

Inaugural Function of

Data Analytics using Python

(A Short Term Skill Enhancment Value Added Course)

Date: 30-09-2021 (Thursday) Time: 3:30 PM

Platform: Google Meet

Google Meet Link: https://meet.google.com/avt-xyjn-yix

Welcome Address Prof. A. Charles

Head, Dept. of Computer Science

Dynamics of the Course Dr. A. Aloysius

Course Coordinator

Felicitations by

Rev. Dr. M. Arockiasamy Xavier SJ, Principal, SJC

Rev. Dr. S. Peter SJ, Secretary, SJC

Vote of Thanks

Dr. K. Maheswaran, Course Coordinator

ALL ARE INVITED

COURSE CODE: 21CSVAC101 Total Hrs.: 30

Value Added Course: DATA ANALYTICS

COURSE OBJECTIVE:

The Students to be able to understand and use python programming for solving data science problems.

Unit-I:

Introduction to Python Programming: History – Variable creation - Arithmetic and logical operators - Data types and associated operations in Python - **Introduction to Python Spyder (Tool):** Basics of Spyder- Setting working Directory - Creating and saving a script file - File execution, clearing console, removing variables from environment, clearing environment - Commenting script files.

Unit-II

Control structures: Introduction - if-else family - for loop - for loop with if break- while loop - Functions and its types.

Unit-III

Sequence data types: Fundamentals - Strings - Lists - Arrays- Tuples - Dictionary - Sets - Range- Introduction to **NumPy-** ndArray.

Unit- IV:

Pandas dataframe and dataframe related operations: Reading files - Exploratory data analysis - Data preparation and preprocessing

Unit- IV:

Data visualization using Matplotlib libraries - Scatter plot -Line plot -Bar plot -Case Study using Classification - Regression techniques.

BOOKS FOR REFERENCE:

1. Jake Vander Plas, "Python Data Science Handbook: Essential Tools for Working with Data", O'Reilly Media, 2016.

SHORT TERM SKILL ENHANCEMENT VALUE ADDED COURSE: DATA ANALYTICS USING PYHTON

LIST OF REGISTERED PARTICIPANTS

| 1 21UCS641 VOLS SIMION S 28 20UMA158 ANANDHAVEL S 2 21UPH211 FANTINUS MATHEW M 30 19UPH257 JAMES TONY J 3 21UMA255 SHIVAM S 31 20UCC540 ABISHEK F 4 21UMA230 HANEESH J 32 19UPH129 FREDRICK A 5 20UCS522 JOHNSON JEEVA L 33 21UMA217 SIBISELVAN D 6 21UPH116 RIKAS M S 34 20UBC565 RISHI SUNDARESAN 7 21PPH829 LAKSHMI SWETHA T 35 20UCS567 SHYAM SUNDARESAN 8 21UCS757 MICHEAL L 36 21UCS550 PRAVIN T 9 19UBC552 ANANDHASUDHARSAN P 37 21UCS150 JOSEPH SAMUEL J 10 21UCS506 DOMINIC ROZARIO I 38 20PMA112 PRINCY A 11 20UCS552 KARNAN S 39 21UMA240 MANISHANKAR K C 12 21UPH251 CHIVANAESAN .J 40 21PPH810 VISHNUPRIYAN M 13 21UPH219 THARUN A 41 21UCS101 | |
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| 2 21UPH211 FANTINUS MATHEW M 30 19UPH257 JAMES TONY J 3 21UMA255 SHIVAM S 4 21UMA230 HANEESH J 5 20UCS522 JOHNSON JEEVA L 6 21UPH116 RIKAS M S 7 21PPH829 LAKSHMI SWETHA T 8 21UCS757 MICHEAL L 9 19UBC552 ANANDHASUDHARSAN P 10 21UCS506 DOMINIC ROZARIO I 11 20UCS552 KARNAN S 12 21UPH251 CHIVANAESAN .J 13 21UPH219 THARUN A 14 20UBC534 MAHADHANVARSHAN S 15 21UCS103 AROCKIA SARON J 16 21USC02 JAMES PRAVEEN M 17 21UST146 VANITHA LAKSHMI S 18 20UCS537 JOEJEETH J 19 21PMA843 GAJALAKSHMI J 20 20PCS920 ANUSHA R 21 21UPH234 SANJAY KUMAR S 21 21UPH234 SANJAY KUMAR S 21 21UCS646 GEEJOY V 22 21UCK3646 GEEJOY V 24 21UPH213 IOSE ANTO NEVIS V | |
| 3 21UMA255 SHIVAM S 4 21UMA230 HANEESH J 5 20UCS522 JOHNSON JEEVA L 6 21UPH116 RIKAS M S 7 21PPH829 LAKSHMI SWETHA T 8 21UCS757 MICHEAL L 9 19UBC552 ANANDHASUDHARSAN P 10 21UCS506 DOMINIC ROZARIO I 11 20UCS552 KARNAN S 12 21UPH251 CHIVANAESAN J 13 21UPH219 THARUN A 14 20UBC534 MAHADHANVARSHAN S 15 21UCS103 AROCKIA SARON J 16 21USC103 AROCKIA SARON J 17 21UST146 VANITHA LAKSHMI S 18 20UCS537 JOEJEETH J 19 21PMA843 GAJALAKSHMI J 20 20PCS920 ANUSHA R 21 21UCS646 GEEJOY V 22 21UCH241 CONSTANCE A 21 21UPH234 SANJAY KUMAR S 21 21UCS764 ABISHEK F 31 20UCC540 ABISHEK F 32 19UPH129 FREDRICK A 32 19UPH129 FREDRICK A 33 21UMA217 SIBISELVAN D 34 20UBC565 RISHI SUNDARESAN 34 20UCS567 SHYAM SUNDAR S 36 21UCS550 PRAVIN T 37 21UCS150 JOSEPH SAMUEL J 38 20PCS950 PRAVIN T 39 21UMA240 MANISHANKAR K C 21PPH810 VISHNUPRIYAN M 41 21UCS101 SRIRAM S 42 20UCS558 AJAY SHARMA K 42 20UCS558 AJAY SHARMA K 43 21PMA813 BORGIYA J 44 21UBC660 NANDHAN J 45 21PPH103 INIGO VALAN E 46 20UCS507 THAYANITHI S 47 19UBC530 SATHGURU S 48 21UCS762 HARISH RAGAVENDHA 49 21UBC667 KARAN D 50 21UCS638 AZHAGAPAN KL 51 21UCS764 VIWARGIDDH VAMANA | |
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| 23 21UPH234 SANJAY KUMAR S 24 21UPH113 JOSE ANTO NEVIS V | |
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| 52 19UCS569 MANO ARAVINTH U | . , , |
| 25 21UMA216 PRABU S 53 19UPH504 SURAJ S | |
| 26 21UCS152 MICHEAL AUGUSTIN J 54 21UCS564 VELAN S | |

| 55 | 21UCS636 | KINGSLY JACOB V | 92 | 19UPH143 | ARUL JEEVAN C |
|----|----------|----------------------|-----|----------|----------------------|
| 56 | 20UST140 | MUNEESWARAN A | 93 | 21UMA149 | BALA ARAVIND T K |
| 57 | 21UST108 | KINGSLIN J | 94 | 21UPH506 | SHARMILI KIRUBA M |
| 58 | 21UPH134 | SARAN T R | 95 | 21UST124 | MALAVIKA P |
| 59 | 21UCS134 | JESVIN K JUSTIN | 96 | 21UCS709 | REEGAN P |
| 60 | 20UBC635 | MANIKANDAN K B | 97 | 21UST144 | SURYA KUMAR S |
| 61 | 20PMA113 | RAJESH B | 98 | 21UCS530 | JOHN P SEBY |
| 62 | 21UPH101 | JOHN ANTONY J | 99 | 21UMA539 | SAHAYA DEEPIKA J |
| 63 | 21UST125 | DANIEL AUGUESTINE A | 100 | 21UST159 | APERNA V |
| 64 | 21UCS156 | WILSON J | 101 | 20UCS554 | EASTER THANGADURAI R |
| 65 | 21PMA144 | FORSHIA SAVARINE M | 102 | 21UPH203 | SUBRABHARATHI K |
| 66 | 21UST135 | PUGAZHARASAN A | 103 | 20UCC511 | RISHYRAM M |
| 67 | 21UCS116 | RANJITH M | 104 | 20PCC801 | DIVYA P |
| 68 | 20PCC809 | ANANTHI M | 105 | 21UST136 | SATHISH C |
| 69 | 20UCS508 | INIGOANAND L | 106 | 21UCS160 | MATHEW HAYDEN S |
| 70 | 21UCS159 | DEEPAKKUMAR S | 107 | 21UST109 | SHEELA MARY J |
| 71 | 21PMA832 | CHRIST JENNIFER J | 108 | 21UST140 | SANJAY M |
| 72 | 21UCS503 | JOHN IRUDAYA RAJ AJ | 109 | 21UCS165 | AMALA EDISON L |
| 73 | 21PMA821 | MACTALEENA A | 110 | 21UST145 | JERMIAH V |
| 74 | 21UMA214 | LOUNGH MINGH SAKAL J | 111 | 21UMA517 | VIGNESHWARAN S |
| 75 | 21UPH214 | VISHWA T | 112 | 21UMA516 | SUGANESWARAN |
| 76 | 21UST150 | PRAWIN KANNA P | 113 | 21UMA123 | SARAVANABHARATHI R S |
| 77 | 21UPH121 | SAMSON J | 114 | 21UST154 | LEKA SUBANU S |
| 78 | 20UCS551 | SRIMAN SUBASH P | 115 | 21UST116 | LOGESHWARAN P |
| 79 | 20UMA537 | PRAKASH P | 116 | 21UCS108 | SANTHOSH S |
| 80 | 21PMA801 | CATHLINE A | 117 | 21UMA241 | PRIYADHARSHAN P |
| 81 | 21UPH255 | CHANDRU V | 118 | 21PCA133 | MAHESWARAN A |
| 82 | 21UMA144 | BHARATHI G | 119 | 19UPH521 | JESHWIN MERALD I |
| 83 | 21UST106 | CAROLENA RUTH S | 120 | 21UBC628 | BORIS LEFFENSON A |
| 84 | 21USS122 | ATHIKESAVAN P | 121 | 21PMA139 | SATHISH KUMAR K |
| 85 | 21UST148 | MANIKANDAA S | 122 | 19UBC502 | EDIL REMEINGTON J |
| 86 | 21PMA816 | CAROLIN BABILA J | 123 | 19UBC568 | ROHITH R |
| 87 | 21UBC605 | BALAKUMAR S | 124 | 21UCS747 | KEVIN BRITTO A |
| 88 | 21UPH501 | KARTHIKA V | 125 | 19UMA242 | SELLIDHASAN M |
| 89 | 21PCS942 | SREENIVASAN J | 126 | 21UMA221 | SURYA R |
| 90 | 21UST103 | SWETHA P | 127 | 21UMA213 | ROBERT. J |
| 91 | 21UBC654 | VARUN S D | | | |

St. Joseph's College (Autonomous) Tiruchirappalli 620 002.

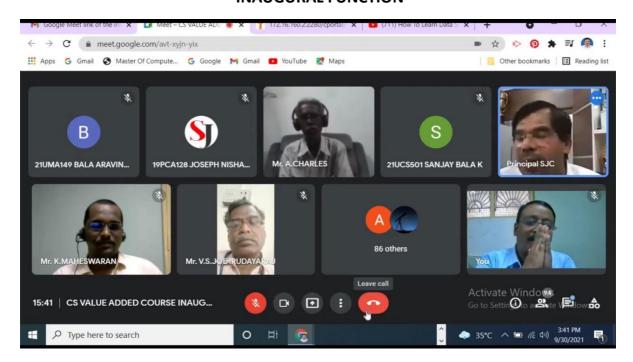
SAMPLE CERTIFICATE



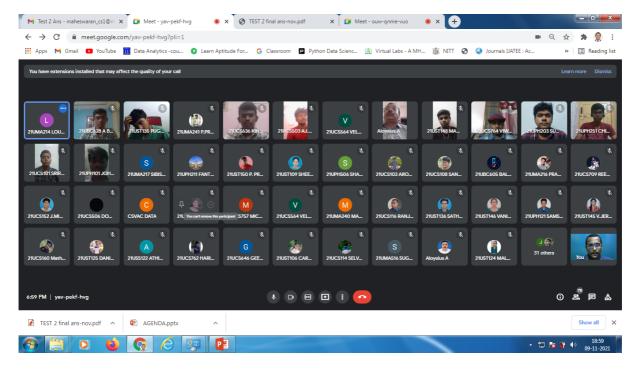
St. Joseph's College (Autonomous) Tiruchirappalli 620 002.

GALLERY

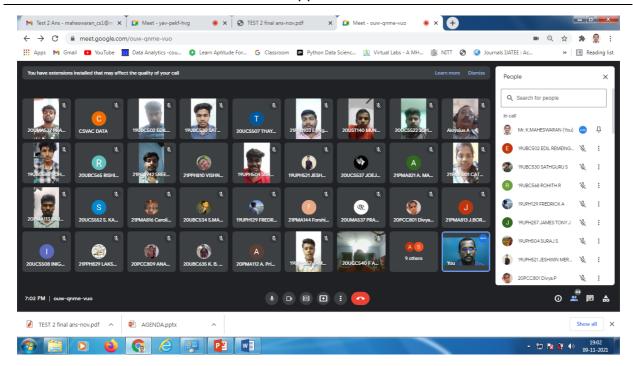
INAUGURAL FUNCTION



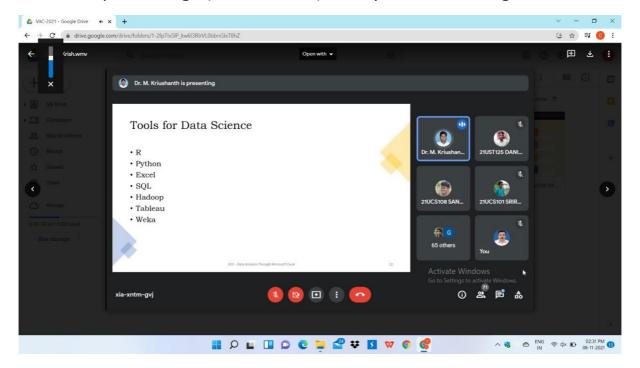
GROUP PHOTO WITH STUDENTS



St. Joseph's College (Autonomous) Tiruchirappalli 620 002.

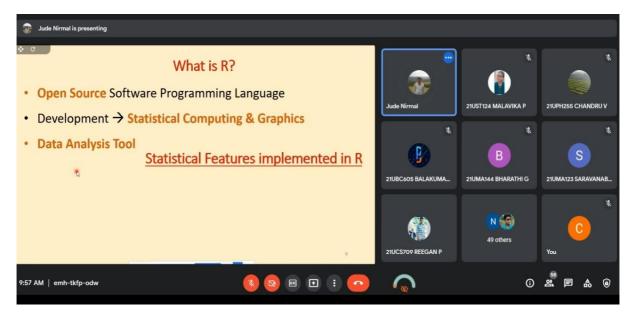


Dr. M. Krishanth, Assistant Professor, Department of Data Science, St. Joseph's College (Autonomous), Trichy – 02, delivering lecture

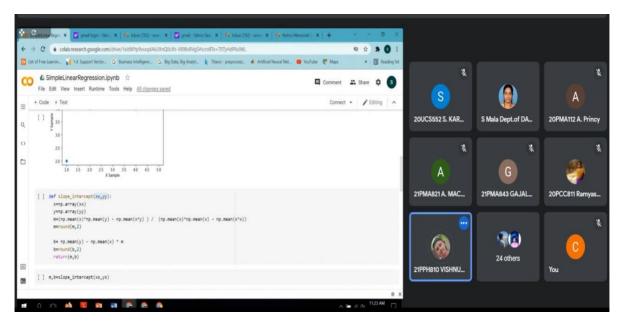


St. Joseph's College (Autonomous) Tiruchirappalli 620 002.

Dr. V. Jude Nirmal, Assistant Professor, Department of Computer Science, St. Joseph's College (Autonomous), Trichy – 02, delivering lecture



Dr. S. Mala, Assistant Professor & Head, Department of Data Science, Nehru Memorial College, Puthanampatti, delivering lecture.



REPORT OF THE VALUE ADDED COURSE: DATA ANALYTICS

Registration and Confirmation Process

A registration form was prepared, the registration link was circulated over the students. Visited B.Sc CS & BCA (Shift-II) class rooms and explained the features and importance of the course. There were totally 72 students registered for the course using the Google registration forms. An online orientation programme was conducted for the registered students, explained the information about the course Content, Tests and Assignments. The features of the course was explained to BSc CS and BCA (Shift-II) student by visiting their respective classes. The students also clarified the doubts too.

Inauguration

The course was inaugurated on 31-03-2022 at 11.30 AM. Dr. A. Aloysius, Course coordinator welcomed the dignitaries and the participants. Dr. A. Aloysius, coordinator of the course briefed the dynamics of the course. Prof. A. Charles HoD of Computer Science offer his felicitation. He encouraged and motivated the students to learn and to acquire skills making use of value added course offered by the computer science department.

The offline classes for the registered participants were conducted between 11:30 AM to 1:00 PM. There were 46 students accommodated in this batch. The course WhatsApp groups were created for the students to communicate the notices every now and then. All the students were asked to register LMS offered by our college to learn the some of the modules in the value added course.

The course was conducted from 31st March 2022 to 2nd June 2022 with the total duration of 35 hours. We had resource persons from within and outside college namely Dr. S. Mala from CS department, Nehru Memorial College, Puthanampatti, Dr. V. Arul Kumar, Asst. Prof., Dept. of Data Science, Mrs. S. Josephine Theresa from CS department along with the resource person cum. Coordinators of the course Dr. A. Aloysius and Dr. K. Maheswaran.

During the course, the attendance and feedback were collected every day. The course materials were shared using whatsapp groups. The overall feedback of the course

also collected at the end of the course. The students felt that the course was very much useful to enrich their knowledge.

LMS and Evaluation

The Students learned the certain part of the course through the modules available in LMS offered by the college. There are four modules in the LMS and the students learned the same through LMS. After learning the course, an examination was conducted also through LMS for 40 Marks for four modules and one final examination was conducted for 60 marks. All the participants was received their participation e-certificate through e-mail. The students having more than 60% of attendance and 40% of marks in the tests will receive their course completion certificate. Totally the different test was conducted for 100 marks and student will awarded *Grades* based on their marks. There are 44 students out of 46 students were completed the course as per criteria.

Valediction

The valediction function of the value added course was held on 02-06-2022 at 11. 30 AM. Dr. A. Aloysius welcomed the gathering and summarised the report the value added course: Data Analytics using Python. Dr. D. P. Jeyapalan Associate Professor and Head (i/c) facilitate the gathering. Dr. Y. Domnic, Dean, School of Computing Sciences delivered the valedictory address and appreciate the department for the effort taken to conduct the value added course. The meeting came to an end with the thanking note of the course coordinator Dr. K. Maheswaran at 12. 15 PM.

Course Coordinator

COURSE CODE: 21CSVAC101 Hrs.: 30

Value Added Course: DATA ANALYTICS USING PYTHON

COURSE OBJECTIVE:

The Students to be able to understand and use python programming for solving data science problems.

Unit-I:

Introduction to Python Programming: History – Variable creation - Arithmetic and logical operators - Data types and associated operations in Python - **Introduction to Python Spyder (Tool):** Basics of Spyder- Setting working Directory - Creating and saving a script file - File execution, clearing console, removing variables from environment, clearing environment - Commenting script files.

Unit-II

Control structures: Introduction - if-else family - for loop - for loop with if break- while loop - Functions and its types.

Unit-III

Sequence data types: Fundamentals - Strings - Lists – Arrays- Tuples - Dictionary - Sets - Range-Introduction to **NumPy-** ndArray.

Unit- IV:

Pandas dataframe and dataframe related operations: Reading files - Exploratory data analysis - Data preparation and preprocessing

Unit- IV:

Data visualization using Matplotlib libraries - Scatter plot -Line plot -Bar plot -Case Study using Classification - Regression techniques.

BOOKS FOR REFERENCE:

1. Jake Vander Plas, "Python Data Science Handbook: Essential Tools for Working with Data", O'Reilly Media, 2016.

SHORT TERM SKILL ENHANCEMENT VALUE ADDED COURSE: DATA ANALYTICS USING PYHTON

LIST OF REGISTERED PARTICIPANTS FOR THE VALUE ADDED COURSE: DATA ANALYTICS USING PYTHON CONDUCTED BETWEEN 31-03-2022 TO 02-06-2022

| S. No | Reg. No | Name |
|-------|----------|----------------------|
| 1 | 20PMA820 | HELANBHARATHIPRIYA A |
| 2 | 20PMA828 | JOSHREGAN J |
| 3 | 20PMA829 | SHALINI B.S |
| 4 | 20PMA839 | RAHINI M |
| 5 | 20PMA840 | LAKSHMIPRIYA T |
| 6 | 20PMA841 | KIRUTHIGA. S |
| 7 | 20UCS604 | J. ALBERT |
| 8 | 20UCS618 | MARIAN A |
| 9 | 20UCS635 | JABEZ NEHEMIAH L |
| 10 | 20UCS636 | DANIEL R |
| 11 | 20UCS641 | S.SEBASTIN AKASH |
| 12 | 20UCS642 | DEEPAK KINGSLY. F |
| 13 | 20UCS647 | SAM MARIYA RAJ.P |
| 14 | 20UCS650 | NITHISH LAWRENCE S |
| 15 | 20UCS659 | ANBURAJ |
| 16 | 20UMA522 | GANESH RAGUL S N |
| 17 | 20UMA529 | SHRIE AAKASH T V |
| 18 | 21UMA510 | JERLIN TRINITA. A |
| 19 | 21UMA513 | JERCY.B |
| 20 | 21UBC506 | AKASH.N |
| 21 | 21UBC509 | F.AROKIYA KISHORE |
| 22 | 21UBC515 | JEROSE BROWNY R |

| 23 | 21UBC516 | JEROME R |
|----|----------|----------------------------|
| 24 | 21UBC520 | BALAPRASANNA.M |
| 25 | 21UBC523 | K.RUBEN JERMIA ROY |
| 26 | 21UBC525 | BHARATHI KANNAN.N |
| 27 | 21UBC545 | EVANS GODWIN J |
| 28 | 21UBC639 | VINOJ KUMAR.S |
| 29 | 21UCO746 | J.PRIYAN |
| 30 | 21UCO747 | HARI SOUNDARA PRASANNA |
| 31 | 21UCO767 | SHAIK ABDULLAH M |
| 32 | 21UCO769 | KALANITHI KUMAR A |
| 33 | 21UCO770 | SELVA KINGSELIN A |
| 34 | 21UCS601 | ABI JOHNSON.A |
| 35 | 21UCS623 | SHYAM SUMESH |
| 36 | 21UCS664 | S.HARI PRASATH |
| 37 | 21UCS712 | RAJAGANAPATHY RAVICHANDRAN |
| 38 | 21UCS713 | GANESH KUMAR G |
| 39 | 21UCS718 | SELAVAMANI V |
| 40 | 21UCS724 | VIVINYOSHVA |
| 41 | 21UCS753 | YOSHVA J |
| 42 | 21UCS763 | DHARANESHWARAN R |
| 43 | 21UCS765 | RAHUL BARATHWAJ |
| 44 | 19UBU537 | MUTHAZHAGAN J |
| 45 | 19UPH610 | PRASATH KABILAN A |
| 46 | 21UBC554 | JEEVARATHINAM R |
| | | |

INAUGURAL FUNCTION



Accredited at A++ Grade(4th Cycle)by NAAC College with Potential for Excellence by UGC

Special Heritage Status Awarded by UGO DBT-STAR & DST-FIST Sponsored Collect

Tiruchirappalli, Tamil Nadu, India

The Staff and Students of the Department Invites You all for

Inaugural Function of Data Analtytics using Python

(A Short Term Skill Enhancement Value Added Course)

Date: 31-03-2022

Time: 11.30 am

Venue:

MCA Seminar Hall

Welcome Address & Dynamics of the Course

Dr. A. Aloysius

Course Coordinator

Felicitation by

Prof. A. Charles

Head, Department of Computer Science. St. Joseph's College (Autonomous), Trichy - 620002.

Vote of Thanks

Dr. K. Maheswaran,

Course Coordinator

All Are Invited





Dr. A. Aloysius welcomed the gathering during inaugural function of the value added course





VALEDICTORY FUNCTION

Department of Computer Science St. Joseph's College (Autonomous)

Accredited at A++ Grade(4th Cycle)by NAAC College with Potential for Excellence by UGC

Special Heritage Status Awarded by UGC DBT-STAR & DST-FIST Sponsored College



Tiruchirappalli, Tamil Nadu, India

The Staff & Students of The Department Cordially Invite you to the

VALEDICTORY FUNCTION ON



(A Short Term Skill Enhancment Value Added Course)

02-06-2022

11.30 AM

OMCA SEMINAR HALL

Felicitations By

Dr. Y. Domnic

Dean, School of Computing Science, St. Joseph's College (Autonomous) Trichy - 620002.

Prof. A. Charles

Head, Department of Computer Science, St. Joseph's College (Autonomous) Trichy - 620002.

Welcome address & summary of the course By

Dr. A. Aloysius

Course Coordinator

Vote of Thanks By

Dr. K. Maheswaran

Course Coordinator

Dr. Y. Domnic, Dean- SCS delivering Valedictory Address





SAMPLE CERTIFICATE

DEPARTMENT OF COMPUTER SCIENCE St. JOSEPH'S COLLEGE (Autonomous)

Accredited at A++ Grade(Cycle IV) by NAAC Special Heritage Status Awarded by UGC College with Potential for Excellence by UGC DBT-STAR & DST-FIST Sponsored College



TIRUCHIRAPPALLI - 620002

CERTIFICATE

This certificate is awarded to

RAJAGANAPATHY RAVICHANDRAN (D.No: 21UCS712)

for successfully completing the course

Value Added Course: Data Analytics using Python" from 31-03-2022 to 02-06-2022 with A+ Grade. organized b Department of Computer Science "A Short Term Skill Enhancement

Dr. A. Aloysius & Dr. K. Maheswaran Course Coordinators

Head of the Department

Rev. Dr. M. Arockiasamy Xavier SJ

(GRADE: above 90 = A++; 75 to 90 = A+; 61 to 75 = A; 50 to 60 =B)