



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY
(Approved by A.I.C.T.E., New Delhi & Affiliated to JNTUK, Kakinada)

A NAAC Accredited Institute

An ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution
NH-5, Anakapalle – 531002, Visakhapatnam, A.P.

Mobile: +91 9963981111, Website: www.diet.edu.in, E-mail: info@diet.edu.in



Date: 23-10-2017

Anakapalle

To

The Principal,

Dadi Institute of Engineering & Technology

Anakapalle, Visakhapatnam.

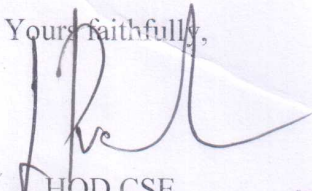
Sub: Request for approval to conduct Faculty Development Program (FDP) on Data Analytics with R- Reg

Respected Sir,

Department of Computer Science Engineering is proposing to conduct Faculty Development Program (FDP) on Data Analytics with R. In this regard, we request you to give approval to conduct this event from 30-10-2017 to 04-11-2017.

Thank You Sir,

Yours faithfully,


HOD CSE
Head of the Department
Computer Science & Engg.
Dadi Institute of Engg. & Tech.
Anakapalle-531002



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Circular

This is to inform all the faculty that the Department of Computer Science Engineering is going to conduct Faculty Development Program (FDP) on Data Analytics with R from 30-10-2017 to 04-11-2017. Faculty from the Department of CSE are requested to participate.

HOD CSE
Head of the Department
Computer Science & Engg.
Dadi Institute of Engg. & Tech.
Anakapalle-531002



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FACULTY DEVELOPMENT PROGRAMME (FDP)

ON

Data Analytics with R

(30th Oct – 4th Nov 2017)

Organized by

Department of Computer Science & Engineering

in association with

National Institute of Technology, Warangal.

(Under the Scheme of Electronics & ICT Academy)

About FDP:

In its pursuit of excellence in technical education Dadi Institute of Engineering & Technology, Visakhapatnam in association with **National Institute of Technology** – Warangal under the scheme of **Electronics & ICT Academy** organized a one week Faculty Development Program (FDP) for the faculty from the Department of Computer Science & Engineering on **Data Analytics with R** from 30th Oct 2017 to 04th Nov-2017. The FDP aims to enhance and strengthen the percolation of state of art technologies amongst the institutional faculty as well as the interested faculty of other colleges of Andhra Pradesh.

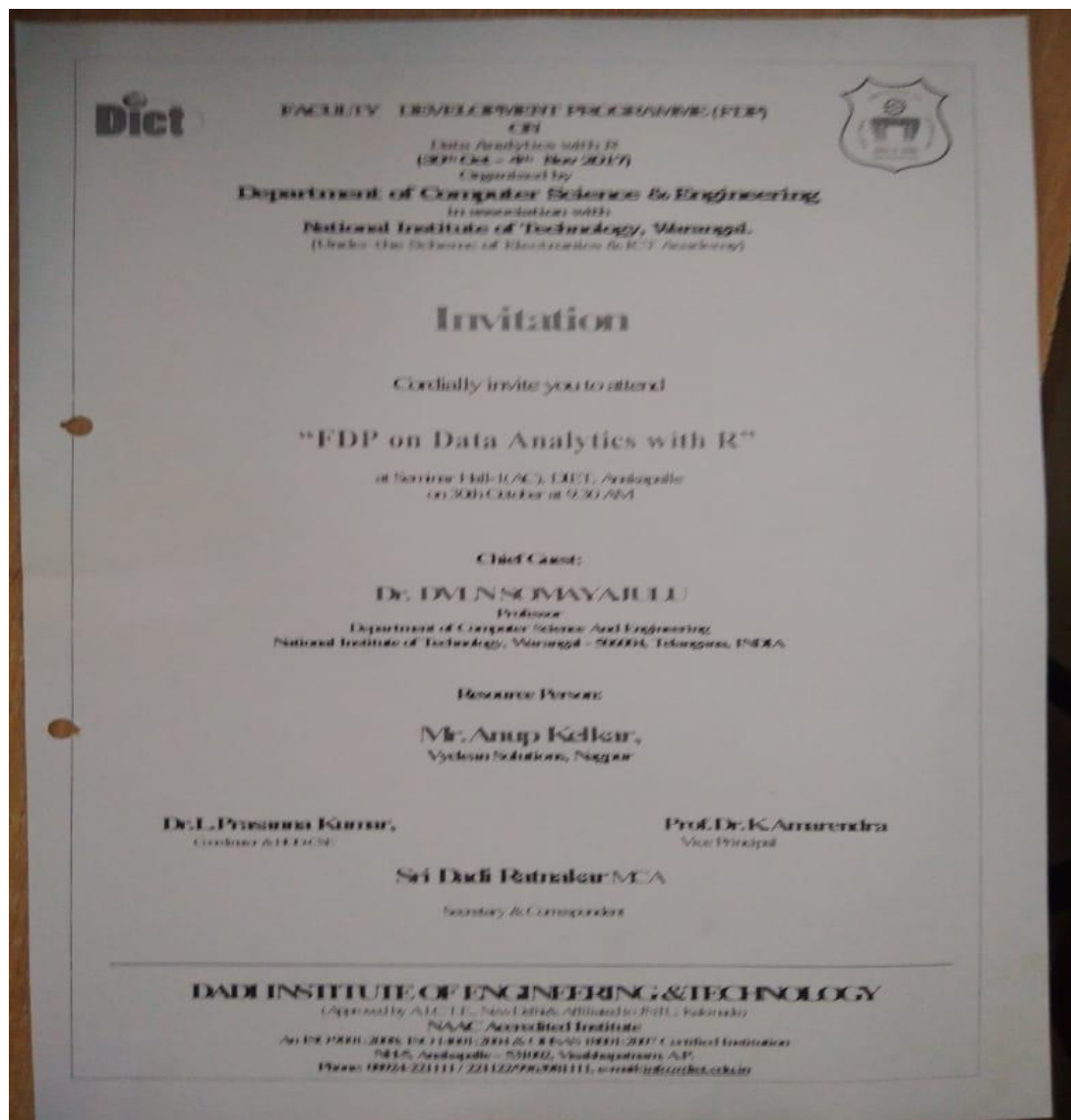


Fig 1: Invitation for FDP on Data Analytics with R

About Electronics & ICT Academy:

The Electronics and ICT Academy provides specialized training to the faculty of Engineering, Arts, Commerce & Science colleges, Polytechnics etc., by developing state-of-the-art facilities.

Schedule:

**FDP on
Data Analytics with R
in association with E&ICT Academy-NIT Warangal**

Venue: DADI Institute of Engineering and Technology, Anakapalle

Tentative Schedule

(30th October - 4th November 2017)

| Day& Date | 9.00 – 11.00 | | 11.15 – 13.15 | 14.15 – 15.45 | 16.00 – 17.30 | |
|-------------------------|---|--|-------------------------------------|---|--|-------------------------|
| 30.10.2017 Monday | Registration & inauguration From 8.30 am | Key note Address - Data Analytics Life Cycle DVS | Basics of R Programming AP | Basics of R Programming AP | Basics of R Programming AP | |
| 31.10.2017 Tuesday | Statistical Analysis using R VRN | | Statistical Analysis using R VRN | Statistical Analysis using R VRN | Statistical Analysis using R VRN | |
| 01.11.2017 Wednesday | Data Visualization using R TRK | | Data Visualization using R TRK | Data Mining using R (Clustering) TRK | Data Mining using R (Classification) TRK | |
| 02.11.2017 Thursday | In-database Analytics DVS | | Exploratory Data Analysis DVS | Window Functions in SQL (Lab) DVS | Window Functions in SQL (Lab) DVS | |
| 03.11.2017 Friday | Overview of NoSQL Databases PB | | NoSQL Databases - MongoDB PB | NoSQL Databases - MongoDB PB | NoSQL Databases - MongoDB PB | Test |
| 04.11.2017 Saturday | Overview of Hadoop RBS | | Map-Reduce Programming RBS | Map-Reduce Programming RBS | Map-Reduce Programming RBS | Valedictory Function |

DVS: Prof. DVLN Somayajulu, NIT, Warangal
RBS: Dr. R B V Subramanyam, NIT, Warangal
VRN: Dr. V Ravindranath, JNTU, Kakinada
PB: Mr. R Phani Bhusan, ADDRIN, Hyderabad
TRK: Dr. T Ramakrishnu, NIT, Warangal
AP: Anup Kelkar, Vyclean Solutions, Nagpur

Fig 2: Schedule for FDP on Data Analytics with R

Inauguration:

The inauguration of the FDP was done in the Seminar Hall 1, DIET Campus on 30-10-2017 at 9.30 AM with lightening of the lamp. The dignitaries of the Inaugural Function included Prof. Dr. D.V.L.N. Somayajulu, Chair, E&ICT Academy, Dept. of CSE, NIT, Warangal, as the Chief Guest, Shri Anup Kelkar, Director, Vyclean Solutions, Nagpur, as the Guest of Honour. Sri Dadi Ratnakar, Honourable Correspondent also graced the occasion. Prof. Dr. K. Amarendra, Vice Principal, Prof. Dr. L. Prasanna Kumar, HOD, CSE & Coordinator, FDP, HoD's of other departments, faculty and 50 participants from various institutes participated in the inaugural function.



Fig 3: Lightning of the lamp by Prof. Dr. D.V.L.N. Somayajulu, Chair, E&ICT Academy

Inauguration:

The inauguration of the FDP was done in the Seminar Hall 1, DIET Campus on 30-10-2017 at Lightning of the lamp by Prof. Dr. D.V.L.N. Somayajulu, Chair, E&ICT Academy, Dept of CSE, NIT, Warangal



Fig 4: Lightning of lamp by Sri Dadi Ratnakar, Honorable Correspondent, DIET



Fig 5:Felicitation to the Chief Guest Prof. Dr. D.V.L.N. Somayajulu, Chair, E&ICT Academy, Dept of CSE, NIT, Warangal



Fig 6:Felicitation to the Guest of Honor Shri Anup Kelkar, Director, Vyclean Solutions, Nagpur

Day Wise Program Details

Day-1: FDP on "Data Analytics with R" - Dept of CSE - 30th Oct 2017

Resource Person: Shri Anup Kelkar, Director, Vyclean Solutions, Nagpur

Topics Covered: Basics of R Programming

Shri Anup Kelkar, Director, Vyclean Solutions, Nagpur, delivered A lecture on "Conceptualization of R language with Hands On" from 10:30 AM to 5:30 PM in Computer Lab-1. All 50 participants were thoroughly engrossed in the lecture and learned 'R' with enthusiasm and due hands-on experience in the laboratory.



Fig 7: Shri Anup Kelkar, Director, Vyclean Solutions, Nagpur, delivered A lecture

Day-2: FDP on "Data Analytics with R" - Dept of CSE - 31st Oct 2017.

Resource Person : Prof. Dr. V. Ravindranath, Director, Library Sciences & EDC, Prof & HoD, Mathematics, JNTUK, Kakinada

Topics Covered: Statistical Analysis using R

Prof. Dr. V. Ravindranath, Director, Library Sciences & EDC, Prof & HOD, Mathematics, JNTUK, Kakinada, delivered A lecture on "Performing Regression Analysis using R Software" from 9:00 AM to 5:30 PM in Computer Lab-1. The lecture was quite informative and interesting and the participants learned content with lots of enthusiasm and hands-on experience in the laboratory.



Fig 8: Prof. Dr. V. Ravindranath, Director, Library Sciences & EDC, Prof & HOD, Mathematics, JNTUK, Kakinada, delivered A lecture

Day 3 - FDP on "Data Analytics with R" - Dept of CSE - 1st Nov 2017.

Resource Person: Dr.T.Ramakrishnudu, Asst. Prof, NIT Warangal.

Topics Covered: Data Visualization using R.

Dr. T. Ramakrishnudu, Dept of CSE, NIT, Warangal, delivered a lecture on "Data Mining and Data Visualization using 'R'" from 9:00 AM to 5:30 PM in Computer Lab-1. All the participants could get the feel of ease of information retrieval for knowledge mining using the R programming.



Fig 9: Practical session

Day 4 - FDP on "Data Analytics with R" – Dept. of CSE - 2nd Nov 2017

Resource person: Dr. D.V.L.N. Somayajulu, Chair, E&ICT Academy, Dept of CSE, NITW

Topics Covered: Data Analytics Life Cycle, In database Analytics, Exploratory data Analysis, Window Functions in SQL

Dr. D.V.L.N. Somayajulu, Chair, E&ICT Academy, Dept of CSE, NIT, Warangal, delivered his highly informative lecture on "R in Database Analytics & Exploratory Data Analysis" and conducted lab Session on "Windows Functions using SQL" from 9:00 AM to 5:30 PM in Computer Lab-1.



Fig:10 Dr. D.V.L.N. Somayajulu, Chair, E&ICT Academy, Dept of CSE, NITW

Day 5 - FDP on "Data Analytics with R" - Dept of CSE - 3rd Nov 2017

Resource Person: Shri R. Phani Bhushan, Scientist-G, ISRO - ADDRIN, Hyderabad

Topics Covered: No SQL - MongoDB

Shri R. Phani Bhushan, Scientist-G, ISRO - ADDRIN, Hyderabad, delivered a lecture on "No SQL - MongoDB" from 9:00 AM to 5:30 PM in Computer Lab-1. The session was highly interactive and quite interesting.



Fig:11 Shri R. Phani Bhushan, Scientist-G, ISRO - ADDRIN, Hyderabad

Day 6 - FDP on "Data Analytics with R" - 4th Nov 2017

Resource Person: Prof. Dr. R.B.V. Subramanyam, Dept of CSE, NIT, Warangal

Topics Covered: Overview of Hadoop and Map Reduce Programming

Prof. Dr. R.B.V. Subramanyam, Dept of CSE, NIT, Warangal delivered a Lecture on "Overview of Hadoop and Map Reduce Programming" from 10:00 AM to 5:45 PM in Computer Lab-1. The speaker could hold the interest of the participants even towards the end of the FDP.



Fig 12: Prof. Dr. R.B.V. Subramanyam, Dept of CSE, NIT, Warangal

Assessment Test on 02-11-2017:

Prof. Dr. D.V.N.L. Somayajulu, Chair, E&ICT Academy, Dept of CSE, NIT, Warangal, conducted an Assessment Test with the Latest Tool "Plickers" for all the participants of the FDP and awarded grades based on their performance in the test.



Fig:13 Assessment Test



Fig:14 Assessment Test

Assessment Test on 03-11-2017:

Shri R. Phani Bhushan, Scientist-G, ISRO - ADDRIN, Hyderabad, conducted a written test to all participants for necessary grading to be awarded on FDP Certificates.



Fig:15 Written Test

Outcome of the Six Day FDP:

Faculty from more than 15 Engineering Colleges participated in the FDP and had a wonderful experience of obtaining hands-on learning of the State of Art technology with highly comfortable infrastructural facilities.



Fig 16:Gathering of faculty after completion of FDP



Fig 17: Group Photo with participants

List of Participants:

| DADI INSTITUTE OF ENGINEERING & TECHNOLOGY | | | | | | | |
|---|---------------|-------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| (Approved by A.I.C.T.E., New Delhi & Affiliated to JNTU, Kakinada) | | | | | | | |
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| NH-5, Anakapalle - 531002, Visakhapatnam, A.P. | | | | | | | |
| Phone: 08924-221111 / 221122/9963981111, e-mail: info@diyet.edu.in | | | | | | | |
| Ms. G.Pushpa | Asst.Prof | DIET | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| Mrs.G.Mutyalamma | Asst.Prof | DIET | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| Ms.G.Chandrika | Asst.Prof | DIET | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| Ms.Razia Sultana | Asst.Prof | DIET | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| Mrs. S.Suneetha | Asst.Prof | DIET | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| Ms.S.Siva Prathyusha | Asst.Prof | DIET | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| Ms.Killadi Atchiyyamma | Asst.Prof | DIET | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| Ms.J.Bhavani | Asst.Prof | DIET | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| Ms.K.Geetha Rani | Asst.Prof | DIET | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| Mr.B.R.S.S.Raju | Asst.Prof | Aditya Engg.College | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| Mrs.S.Swetha | Asst.Prof | Vasavi college of Engineering | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| Mr.Ch.Srinivasa Rao | Asst.Prof | Pydah College (PG College) | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| Mr.Ch.Sunil | Asst.Prof | Pydah College of Engineering | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| Mr.SSVR Kumar Addagarla | Sr. Asst.Prof | NSRIT | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |

Fig 18: List of Participants

| DIET <small>NAAC Accredited Institute</small> <small>An ISO 9001:2008, ISO 14001:2004 & OHSAS 18001:2007 Certified Institution</small> <small>NH-5, Anakapalle - 531002, Visakhapatnam, A.P.</small> <small>Phone: 08924-221111 / 221122/9963981111, e-mail: info@dieltd.edu.in</small> | | | |
|--|---------------------|--|--------------|
| Rajasekharam Gulla | Assoc.Prof | NSRIT | Rajasekharam |
| Mr.A.P.V.Raghavendra | Asst.Prof | KIET | Rajasekharam |
| Dr.V.Kiran Kumar, | Associate Professor | Dravidian University | Rajasekharam |
| Mr.M.Ratkar Babu | Asst.Prof | Keshava Memorial Engineering college | Rajasekharam |
| Dr.K.Bhargavi | Associate Professor | Keshava Memorial Engineering college | Rajasekharam |
| Dr.M.Sandhya | Associate Professor | Keshava Memorial Engineering college | Rajasekharam |
| Dr. R.N.V.Jagan Mohan | Associate Professor | SRKR Engineering College | Rajasekharam |
| Mr Rajanikanth Javvadi | Asst.Professor | SRKR Engineering College | Rajasekharam |
| Miss K. Sravani | Asst.Professor | SRKR Engineering College | Rajasekharam |
| Mr Srihari Varma Mantena | Asst.Professor | SRKR Engineering College | Rajasekharam |
| Mr.Ch.Madhubabu | Asst.Prof | GDDM college of engineering | Rajasekharam |
| B.Vasantha Rani | Asst.Prof | Vignan's Institute of Information Technology | Rajasekharam |
| Ms.M.Mamatha Laxmi | Asst.Prof | Vignan Institute of Engineering for Women (VIEW) | Rajasekharam |

Fig 19:List of Participants

MOU WITH ELECTRONICS & ICT ACADEMY, NIT WARANGAL – ONE MORE SUCCESS SAGA

After successfully being accredited by the National Assessment and Accreditation Council (NAAC), one more feather in the cap for the Dadi Institute of Engineering & Technology (DIET) is the exchange of Memorandum of Understanding (MoU) with Electronics & ICT Academy, (under Ministry of Electronics & Information Technology, Govt. of India), NIT, Warangal, Telangana State, to enhance and strengthen the percolation of state of art technologies amongst the institute faculty and students. A convergence of will between the two parties has been laid indicating a common line of action to enrich the quality of the Teaching Learning Paradigms in the institution.



Fig 20:Signing MOU

After signing the MoU, Sri Dadi Ratnakar, Secretary and Correspondent, Dadi Institute of Engineering and Technology specified the scope and objectives of the MoU as stated below:

- To set up DIET as the Nodal Center to organize various programs to improve the quality of teaching, quality of education in the areas of Computer Science & Engineering, Information Technology, Electronics & Communication Engineering and other allied areas
- To ensure that DIET faculty attend Faculty Development Programs and Workshops throughout the year and deliver quality education with enough beyond the curriculum content to the students enrolled and hence narrow down the Industry Institute Gap
- To promote innovation, designing of algorithms and developing indigenous software and hardware tools with abreast technologies
- To thoroughly understand and obtain hands experience of Next Generation Technologies
- To collaborate with other institutions and ensure public and private partnership
- To start new value added courses in different engineering domains
- To promote entrepreneurship and to support the “Startup India” and “Standup India” initiatives of the Government of India.



Fig 21:Sample Certificate

FEEDBACK FORM

1. Has the Workshop attained its objectives

Yes

No

2. Workshop was relevant to my needs

Strongly agree

Agree

Neutral

Disagree

Strongly disagree

3. Instructions were clear and understandable

Strongly agree

Agree

Neutral

Disagree

Strongly disagree

4. Content was well organised

- Strongly agree
- Agree
- Neutral
- Disagree
- Strongly disagree

5. Was the Duration of the training sufficient.

- Yes
- No