

Dated: 9 March 2019

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)
Nelson Mandela Marg, Vasant Kunj, New Delhi-110070 Website: www.aicte-india.org



FDP - Sanction Letter

**VELAGAPUDI RAMAKRISHNA
SIDDHARTHA ENGINEERING COLLEGE
(AUTONOMOUS)
VIJAYAWADA-520 007**

INWARD NO: 128
DATE: 29/4/19

To
The Drawing and Disbursing Officer,
All India Council for Technical Education,
Nelson Mandela Marg,
Vasant Kunj,
New Delhi - 110070

Sub: Release of a sum of Rs 375000 /- for conduct of Faculty Development Programme (FDP)- reg.

Sir,

This is to convey the sanction of the Council for payment of Rs. 375000 /- (Rupees Three Lakh Seventy Five Thousand Only) for conduct of FDP on FDP on Technology adoption and implementation towards a Smart Society to VELAGAPUDI RAMAKRISHNA SIDDHARTHA ENGINEERING COLLEGE, KRISHNA, Pin No- 520007, Andhra Pradesh, under the Scheme of Faculty Development Programme.

- The amount of the grant shall be drawn by the Drawing and Disbursing Officer, All India Council for Technical Education on the grant-in-aid bill and shall be disbursed to and credited to the Registrar/ Director/Principal of the institute through RTGS.
- This grant-in-aid is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated, and also being communicated in this letter.
- The sanctioned amount is debit to the Major Head 601.9(a) Gen. of the Scheme of Faculty Development Programme and is valid for payment during the financial year 2018-19.

The instructions/guidelines to be followed by University/Institution

I. Release of funds and maintenance of accounts

- a. The Principal of the institute and the Coordinator of the program are requested to verify the correctness of the under mentioned bank account/ RTGS details submitted by them along with the Proposal, in which the grant is being released:

Institute PAN No.	Bank Name	Bank Branch Name	Bank Branch Address	Account Holder Name	Account Type	Account Number	IFSC Code
AABTS1271J	SYNDICATE BANK	VRSEC CAMPUS, KANURU	VASANTH NAGAR, VIJAYAWADA-520007	PRINCIPAL, VRSEC	Saving Account	33672200004978	SYNB0003367

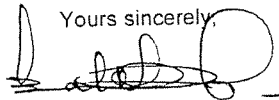
In case of any omission the same should be reported to AICTE immediately.

- The Institute shall strictly follow the provisions laid down in the scheme document and sanction order no. F. No. 34-55/ 31 /RIFD/FDP/Policy-1/2017-18 dated 9.3.2019 issued by this office.
- Funds covered by this grant shall be kept separately and would not be mixed up with other funds so as to know the amount of interest accrued on the grant.
- The University/College/Institute shall maintain proper accounts of the expenditure out of the grants, which shall be utilized only on approved items of expenditure.
- The grant is intended to cover items of expenditure connected with the Faculty Development Programme such as Boarding & Lodging to the participants, TA to outstation participants, Honorarium to Course Coordinator, reading material to participants, Honorarium to resource persons, TA/DA to resource persons including two outstations resource persons & working expenses (reprographic services, postage, transport, daily wages, tea/coffee etc).
- The grant is subject to the adjustment on the basis of Utilization Certificate in the prescribed proforma to be submitted

*before 9 months
from DRP*

Dated: 9 March 2019

- f. The FDP will be organized for **2 weeks with minimum 40 participants**. The approved FDP shall be conducted within nine months from the date of release of funds.
- g. Any unavoidable circumstantial change in the Program with respect to name of Project Coordinator, Venue and date for organizing FDP would mandatorily require prior approval of the Council. All such requests should be addressed to AICTE, in advance, recording the specific reasons for proposed changes, failing which the offer for the grant already issued would be treated as automatically withdrawn and the financial assistance released in favour of the beneficiary institution shall be refunded immediately to the Council. Kindly mention the File No. 34-55/___/RIFD/FDP/Policy-1/2017-18 in your future correspondence.
- h. **Program Evaluation Committee (PEC)** is required to be constituted at institutional level. The constitution of the PEC shall be as under:
- Principal/Director/Registrar of the institution (Chairperson),
 - Coordinator of the program (Member Secretary),
 - Two HODs and one subject expert (members).
- The members of the said PEC shall not be below the rank of Associate Professor. A test shall be conducted by Program Evaluation Committee (PEC) at the end of the program and the certificates shall be issued to those participants who have attended the program and have qualified in the test. The minutes of the meetings, along with PEC report, are to be submitted to the Council at end of the program along with other mandatory documents.
- i. **GOI GFR rules** (@<https://doe.gov.in/order-circular/general-financial-rules2017-0>) should be followed during utilization of grant.
- j. This Sanction Order may be treated as Offer Letter for all purposes.

Yours sincerely,

 (Dileep N. Malkhede)
 Advisor-I (RIFD)

Copy forwarded for information and necessary action to: -

14 MAR 2019

- Coordinator of the Program**
 Dr. ANURADHA TADIPARTHI
 VELAGAPUDI RAMAKRISHNA SIDDHARTHA ENGINEERING COLLEGE
 VASANTHA NAGAR
 KANURU
 VIJAYAWADA - 7
 AP, INDIA KRISHNA
 VIJAYAWADA - 520007
- The Registrar / Director / Principal**
 VELAGAPUDI RAMAKRISHNA SIDDHARTHA ENGINEERING COLLEGE
 VASANTHA NAGAR
 KANURU
 VIJAYAWADA - 7
 AP, INDIA KRISHNA
 VIJAYAWADA - 520007
- Guard File**

Dept copy
 JDP
 29/3

ESTD : 1977



VELAGAPUDI RAMAKRISHNA
SIDDHARTHA ENGINEERING COLLEGE
(Autonomous)

KANURU, VIJAYAWADA-520 007

(Sponsors : Siddhartha Academy of General and Technical Education)

Affiliated to Jawaharlal Nehru Technological University Kakinada

Approved by AICTE, Accredited by NAAC with 'A' grade

An ISO 9001 : 2008 Certified Institution

91 866 2582333
866 2582334
866 2584930
866 2582672 (F)

e-mail : principal@vrsiddhartha.ac.in

web : www.vrsiddhartha.ac.in

Ref :

Dt: 16.12.2019

From
Dr.A.V.Ratna Prasad
Principal
Velagapudi Ramakrishna Siddhartha Engineering College
Vasanth Nagar, Kanuru, Vijayawada, Andhra Pradesh

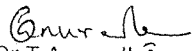
To
Dileep N Malkhede
Advisor(RIFD)
AICTE, New Delhi

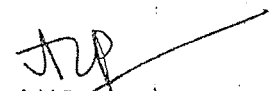
Sub: Submission of requisite bills and Documents for Faculty Development Programme organized

Ref: F.No.34-55/31/RIFD/FDP/Policy-1/2017-18dated 09-03-2019

AICTE has sanctioned Rs. 3.75 Lakhs for organizing Faculty Development programme on "Technology Adoption and Implementation Towards A Smart Society". The department of Information Technology has organized the event from 4th -16th November 2019.

An amount of Rs.3,04,501/- Was spent for organizing the Faculty Development Programme. An amount of Rs. 75,307.56 (Balance amount of Rs. 70,499/- + Interest amount of Rs. 4,808.56/-) is here with returned to AICTE through crossed Demand Draft . We are pleased to submit the requisite documents of the FDP organized by Department of Information Technology, Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada for your kind consideration.


Dr.T.Anuradhā
Professor, Department of IT,
(Coordinator of FDP)


Dr.A.V.Ratna Prasad
Principal
VR Siddhartha Engineering College
PRINCIPAL
V.R.Siddhartha Engineering College
AUTONOMOUS
VIJAYAWADA-520 007

Note: List of Documents Enclosed is shown in next page.

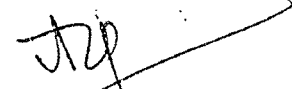
List of Documents submitted :

1. Statement of Expenditure and Utilization Certificate
2. Feedback Form
3. Copy of Proceedings
4. List of Candidates successfully completed the programme
5. PEC Report and meeting minutes
6. Crossed Demand Draft of Rs. 75,307.56/-

(DD NO: 772528 dated 09-12-2019, Syndicate Bank)

7. Invitation
8. Brochure
9. Session Schedule
10. Assessment Test question paper and Samples of sheets answered by candidates.
11. Feedback from candidates sample sheets
12. Certificate (with group photo at the back side)

Cal



PRINCIPAL

V.R.Siddhartha Engineering College
AUTONOMOUS
VIJAYAWADA-520 007

Faculty Development Program (FDP) GRANT

UTILISATION CERTIFICATE

1. AICTE File No : F.NO.34-55/31/RIFD/FDP/Policy-1/2017-18, Dt. 09.03.2019
2. Name of the Coordinator : Dr. T.Anuradha
3. Date(s) of the FDP : 04th to 16th November 2019
4. Title of the FDP : Technology adoption and implementation towards a Smart Society

Sl. No	AICTE Sanction Order/Letter No. & Date under which the amount was sanctioned	Amount (Rs.)	
01	F.NO.34-55/31/RIFD/FDP/Policy-1/2017-18, Dt. 09.03.2019	Rs.3,75,000/-	Certified that out of Grant-in-Aid of Rs3,75,000/-(Rupees Three lakh seventy five thousand only) sanctioned and released by the AICTE during the financial year 2018-19 in favour of Principal, V.R.Siddhartha Engineering College, Kanuru, Vijayawada -07 as per letter mentioned in column 2 and Rs. Nil on account of unspent balance of previous year, plus Rs.4,808.56 on account of Interest. Rs. 3,04,501/- has been utilized for the purpose for which it was sanctioned and the balance of Rs. 75,307.56 (Including Interest earned on Grant received)remained unutilized for the programme is to be returned to AICTE.

Certified that I have satisfied myself that the conditions on which the amount was sanctioned have been duly fulfilled and that I have exercised the following checks to see that the money was actually utilized for the purpose for which it was sanctioned.

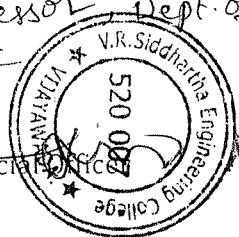
1. Verification of Payment vouchers supported by bills/recipient signature
2. All payments were authorized/attested by coordinator and the principal of V.R. Siddhartha Engineering college, Kanuru, Vijayawada.



Signature of Program Coordinator

Name & Designation: Dr. T. Anuradha
Professor, Dept. of IT
VRSEC

Signature (with seal) of Financial Officer

UDIN 19023575AAAADU4469
DT 07.12.2019

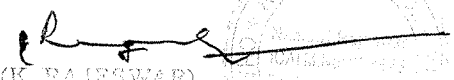

RAJESWAR & CO.,
Chartered Accountants


Signature of Head of the Institute

Name & Designation: PRINCIPAL
V.R.Siddhartha Engineering College
AUTONOMOUS
VIJAYAWADA-520 007

Signature of Chartered Accountant

For RAJESWAR & Co.,
Chartered Accountants


(K. RAJESWAR)

Faculty Development Program (FDP) GRANT FORMAT FOR STATEMENT OF EXPENDITURE

1. AICTE File No : F.NO.34-55/31/RIFD/FDP/Policy-1/2017-18, Dt. 09.03.2019
 2. Name of the Coordinator : Dr. T.Anuradha
 3. Title of the FDP : Technology adoption and implementation towards a Smart Society

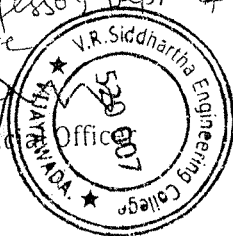
Sanctioned File No	Sanctioned Amount	Details of Expenditure incurred Item wise	No.of Participants	Duration of the Event
F.NO.34-55/31/RIFD/FDP/Policy-1/2017-18, Dt. 09.03.2019	Rs.375000	(A) Boarding and Lodging to Participants Rs. 98,443/- (B) TA to Outstation Participants Rs. 3,890/- (C) Honorarium to Course coordinator Rs. 3,750/- (D) Reading Material to participants Rs. 23,532/- (E) Honorarium to Resource Persons Rs. 75,000/- (F) TA/DA to resource persons Rs. 44,954/- (G) Working expenses (reprographic services, postage, transport, daily wages, tea/coffee etc.) Rs. 54,932/-	51	04 th to 16 th November 2019
		Total Expenditure		
		Rs.3,04,501		

Anuradha
Signature of Program Coordinator

Name & Designation: Dr. T. Anuradha
Professor, Dept. of IT
VRSEE

Signature (with seal) of Financial Officer

UDIN 19023575AAAADU4469
DT 07.12.2019



JRP
Signature of Head of the Institute

Name & Designation: **PRINCIPAL**
V.R. Siddhartha Engineering College
AUTONOMOUS
VIJAYAWADA-520 007

Signature of Chartered Accountant

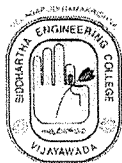
For RAJESWAR & Co.,
Chartered Accountants

RAJESWAR & CO.,
Chartered Accountants
40-1/1-12 Vijayakrishna

K. RAJESWAR
(K. RAJESWAR)
PROPRIETOR



**DEPARTMENT OF INFORMATION TECHNOLOGY ::
V.R.SIDDHARTHA ENGINEERING COLLEGE
All India Council for Technical Education**



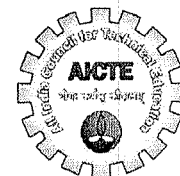
Sponsored

Two week FDP on

Technology Adoption and Implementation

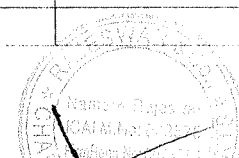
Towards a Smart Society

4th to 16th November 2019

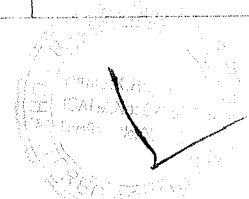


Statement of Expenditure

(A) Boarding and Lodging to Participants			
S.No	Description	Amount in Rs.	Bill /voucher
1	Lunch Bill from VRSEC Canteenfor first day	8700/-	Bill
2	Lunch Bill from VRSEC Canteenfor 11 days	66,600/-	Bill
3	Snacks Bill from VRSEC Canteenfor 12 days	18,800/-	Bill
4	Ice cream Bill from VRSEC Canteenfor last day	1500/-	Bill
5	Snacks for inaugural session - guests	563/-	Bill
6	Sweets from Sai Home foods On 15-11-2019 lunch	900/-	Bill
7	Sweets from Anumolu Home Foods on 14-11-2019 lunch	960/-	Bill
8	Sweets from Anumolu Home Foods on 16-11-2019 lunch	420/-	Bill
Total		98,443/-	
(B) TA to Outstation Participants			
S.No	Description	Amount in Rs.	Bill /voucher
1.	Abdual ahad (to and from guntur – vijayawada) for 12days	640	Voucher with tickets
2	Chandrasekhar varma (to and from bhimavaram – Vijayawada) for 12 days	730	Voucher with tickets
3	A.giridhar (to and from ponnuru – vijayawada)for 12 days	990	Voucher with tickets
4	Anusha(to and from nuzividu – Vijayawada) for 12 days	995	Voucher with tickets
5	B.srikanth (to and from Guntur – vijayawada) for 12 days	535	Voucher with tickets
Total		3,890/-	
(C) Honorarium to Course cordinator			
S.No	Description	Amount in Rs.	Bill /voucher
1	Honorarium to Course co.cordinator	3750	voucher
Total		3,750/-	



3	Bus Ticket for N.V.AnjaneyaRaju From Vijayawada to Hyderabad	910	Bill(ticket)
4	Train Ticket for R.R.Rout from Kazipet to Vijayawada	780	Bill(ticket)
5	Train Ticket for R.R.Rout from Vijayawada to Kazipet	433	Bill(ticket)
6	Hotel accommodation for R.R.Rout (Hotel Ajantha)	2563	Bill
7	Bus Ticket for V.AnilKumar From Hyderabad to Vijayawada	910	Bill(ticket)
8	Bus Ticket for V.AnilKumar From Vijayawadato Hyderabad	910	Bill(ticket)
9	Flight Ticket for G.SrinivasaRao, Trilochan Kumbakar from Hyderabad to Vijayawada	10,590	Bill(ticket)
	Flight Ticket for G.SrinivasaRao, Trilochan Kumbakar from Vijayawada to Hyderabad		
10	Flight Ticket for MS Subramanyam, Trilochan Kumbakar from Hyderabad to Vijayawada	2260	Bill(ticket)
11	Train Ticket for MS Subramanyam from Samarlakota to Secunderabad	971	Bill(ticket)
12	Hotel accommodation for Subramanyam (M Hotel)	2000	Bill
13	Flight Ticket for K.AmaralingeswaraRao From Banglore to Vijayawada	7,299	Bill(ticket)
	Flight Ticket for K.AmaralingeswaraRao From Vijayawada to Banglore		
Total		44,954	
(G) Working expenses (reprographic services, services, postage, transport, daily wages, tea/coffee etc.)			
S.No	Description	Amount in Rs.	Bill /voucher
1	Tea from VRSEC canteen for 12 days	9000/-	Bill
2	Biscuits from VRSEC canteen for 12 days	9300/-	Bill
3	Biscuits from Karachi Bakery On 14-11-2019	1890/-	
4	Water bottles from VRSEC canteen for 12 days	1160/-	Bill
5	Invitation cards printing from Quickprint	500/-	Bill
6	Pooja items from Srihari Super market	40/-	Bill
7	Pooja items from Krishna murthy departmental stores	46/-	Bill
8	Decoration items from modern super market	50/-	Bill



26	Utilization Certification charges	5900/-	Bill
27	Conveyance and accounts preparation charges	1500/-	Voucher
	Total	54,932/-	

SUMMARY

(A)	Boarding and Lodging to Participants	Rs. 98,443/-
(B)	TA to Outstation Participants	Rs. 3,890/-
(C)	Honorarium to Course coordinator	Rs. 3,750/-
(D)	Reading Material to participants	Rs. 23,532/-
(E)	Honorarium to Resource Persons	Rs. 75,000/-
(F)	TA/DA to resource persons	Rs. 44,954
(G)	Working expenses (reprographic services, services, postage, transport, daily wages, tea/coffee etc.)	Rs. 54,932/-

Total Expenditure

Rs.3,04,501

Anuradha
Signature of Program Coordinator

Name & Designation: *Dr. T. Anuradha*
Professor, Dept. of IT,
VRSEC

[Signature]
Signature of Head of the Institute

Name & Designation: **PRINCIPAL**
V.R.Siddhartha Engineering College
AUTONOMOUS
VIJAYAWADA-520 007

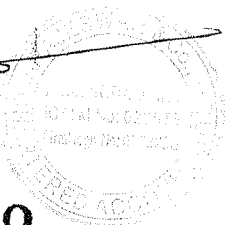
[Signature]
Signature (with seal) of Financial Officer



Signature of Chartered Accountant

For **RAJESWAR & Co.,**
Chartered Accountants

[Signature]
(K. RAJESWAR)
PROPRIETOR
ICAI M.No: 022575
Firm Regn. No: 0673225



UDIN 19023575AAAADU4469
DT 07.12.2019

RAJESWAR & CO.,
Chartered Accountants
40-1/1-12, Vijayakrishna,

**AICTE
SCHEME FACULTY DEVELOPMENT PROGRAMME**

FEEDBACK FORM

1. AICTE File No & Date of offer Letter : F. No.34-55/31/RIFD/FDP/Policy-1/2017-18
dated 09-03-2019.
2. Name of the Coordinator : Dr.T.Anuradha
3. Name and Address of the Institution: Velegapudi Ramakrishna Siddhartha
Engineering College, Kanuru, Vijayawada,
Krishna, Andhra Pradesh 520007
4. Title of the FDP : Technology Adoption and Implementation towards Smart Society
5. Date(s) : 4th to 16th November 2019
6. Venue : Seminar Hall -Department of IT, Lab-1(Data Engineering Lab),
Velegapudi Ramakrishna Siddhartha Engineering College
7. Total numbers of participants proposed and actually attended:
Proposed: Attended:

8, Name and Date of the offer letter:

Letter No.	Date
F. No.34-55/31/RIFD/FDP/ Policy- 1/2017-18	09-03-2019

9. Total amount sanctioned: Rs. 3,75,000/-

10. No, and Date of sanctioned letter:

Letter No.	Date	Grant Released
F. No.34-55/31/RIFD/FDP/ Policy- 1/2017-18	09-03-2019	Rs. 3,75,000

11. Total expenditure incurred in conducting conference /Seminar: Rs.3,04,501/-

12. Grant received from various agencies other than AICTE for this conference /Seminar:

S.NO	Name of the Agency	Grant Received
	NIL	
Total		

13. Details of internal revenue, if any, generated by the Institutlon/ Department on
account of this seminar /conference: NIL

14. Briefly mention about the technological/ academic or any other benefit generated by conducting this Activity with respect to a) the institution b) the faculty, c) students, d) industry/ society:

a. Benefits to the Institution

- Teaching and Research skills of the faculty were improved in the technologies related to smart society.
- Got Suggestions and guidance from resource persons for curriculum changes wrt industrial needs in the areas of Big Data and IoT and other current technologies
- Interaction with CEOs of Big Data Minds, Hyderabad and Saadruo Technologies, Bangalore. These CEOs gave consent to offer placements and Internship to the students of VR Siddhartha Engineering College
- Got acceptance from all resource persons to help the college in conducting guest lectures and workshops to the students of the college as and when needed.

b. Benefits to the Faculty

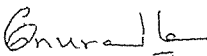
- Faculty knowledge in key domains of teaching and research is enhanced in the areas of IoT and Big Data
- Faculty got hands on exposure in IoT and Bigdata technologies
- Faculty got knowledge on case studies and open ended research problems related to Smart societies which can be used in writing project proposals.
- Faculty got interaction with resource persons from academia & industry and other participants which can help them in their professional career and collaborative research


c. Benefits to the students

- Students can get good hands on exposure in Big data and IoT technologies as the knowledge levels of faculty were improved.
- Students can get good problems and real time case studies for their projects as the awareness of faculty is improved.

d. Industry/ Society

- This FDP bridges the gap between industry and academia
- Society can be benefitted from the research done by faculty and students from the knowledge acquired from this FDP in smart societal applications


Dr. T. Anuradha
(Coordinator)


Dr. AV Ratna Prasad
(Principal)
V.R. Siddhartha Engineering College
AUTONOMOUS
VIJAYAWADA-520 007

VELAGAPUDI RAMAKRISHNA SIDDHARTHA ENGINEERING COLLEGE

CIRCULAR

Dt: 14-08-19

All the members of Program Evaluation Committee for the AICTE sponsored Faculty Development Programme on "Technology Adoption and Implementation towards Smart Society" are informed to attend a meeting on 16th August 2019 at 4.00 PM at IT Conference Hall positively to discuss the following agenda points.

Agenda:

- Program Planning and Implementation
- Schedule and Resource Persons finalization
- Organizing committee
- Venues for theory and lab sessions
- Brochure design and distribution
- Conduction of assessment test
- Accommodation and Hospitality to outside participants
- Any others

Chairperson:

Dr.A.V.Ratna Prasad, Principal, VRSEC

Member Secretary:

Dr.T.Anuradha, Coordinator of the program

Anuradha
14/8/19

Members of PEC:

Dr. M.Suneetha, Prof & Head, IT Department

M.Suneetha
14/8/19

Dr.S.Rajeswara Rao, Prof & Head, CSE Department

S.Rajeswara Rao
14/08/2019

Dr.K.Sita Kumari, Associate Professor (Subject Expert)

S.K.Sita Kumari
14/8/19

Dr.A.V.Ratna Prasad
Dr.A.V.Ratna Prasad
(Principal, VRSEC)

PRINCIPAL
V.R.Siddhartha Engineering College
AUTONOMOUS
VIJAYAWADA-520 007

(5)

PEC Report – Two week FDP on Technology Adoption and Implementation Towards A Smart Society

1. Title of the Seminar : Technology Adoption and Implementation towards Smart Society
2. Date(s) of FDP : 4th to 16th November 2019
3. Name of the Coordinator: Dr.T.Anuradha
Professor, Department of Information Technology
Veleagapudi Ramakrishna Siddhartha
Engineering College
4. Name and Address of the Institution: Veleagapudi Ramakrishna Siddhartha
Engineering College, Kanuru, Vijayawada,
Krishna, Andhra Pradesh 520007
5. AICTE File No & Date of offer Letter : F. No.34-55/31/RIFD/FDP/Policy-1/2017-18
dated 09-03-2019
6. Number of Participants : 51
7. Details of Accounts :

S.No	Details	Amount (in Rs.)
1	Amount Sanctioned	3,75,000/-
2	Amount Spent	3,04,501/-
3	Interest Amount	4,808.56/-
4	Amount Returned	75,307.56/- (DD No . 772528 dated 09-12-2019, Syndicate bank)

Members of Programme Evaluation Committee:

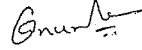
Chairperson:

Dr.A.V.Ratna Prasad, Principal, VRSEC

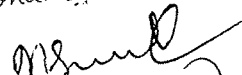


Members:

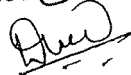
Dr.T.Anuradha, Coordinator of the program



Dr. M.Suneetha, Prof & Head, IT Department



Dr.S.Rajeswara Rao, Prof & Head, CSE Department



Dr.K.Sita Kumari, Associate Professor (Subject Expert)



Note: Detailed Report enclosed in next pages

Detailed Report

Dr.T.Anuradha, Professor, IT Dept was sanctioned an amount of Rs.3,75,000/- for conduct of FDP on "Technology Adoption and Implementation towards Smart Society" by AICTE under the scheme of Faculty Development Programme with sanction order no: F. No.34-55-/31/RIFD/FDP/Policy-1/2017-18 dated 09-03-2019.

Two week faculty development programme was successfully conducted from 4th November to 16th November 2019 with 51 participants. The resource persons from NIT Warangal, IIIT Hyderabad, IIIT Kurnool, IBM Bangalore, TCS Hyderabad, Big Data Minds Hyderabad, Saadruso Technologies, Bangalore, Efftronics, Vijayawada and Andhra Pradesh State Skill Development Center were invited to deliver the sessions.

The program was inaugurated by Dr.D.V.L.N.Somayajulu, Director, IIIT Kurnool. Sri.M.Rajayya, Convener of V.R.Siddhartha Engineering College, Dr.A.V.Ratna Prasad, Principal, V.R.Siddhartha Engineering College, HODs of all the Departments participated in the inaugural session.

The participants were trained on latest technologies related to Big Data and IoT. The participants had hands on sessions by the industry people on Hadoop, Map Reduce, Hive, Spark, Python Programming and IoT applications. The resource persons from IIIT and NIT enlightened the participants with the research ideas related to Big Data and IoT towards smart society. Industry people demonstrated the real time case studies they were handling at their companies. The resource persons were very cooperative and accepted to communicate with the participants as and when needed.

The participants had an opportunity to interact with the resource persons and other co-participants and share their knowledge and research ideas. The assessment test has been conducted on 15th November for 50 marks with 50 objective questions for one hour duration by collecting the questions from resource persons on Big Data, IoT and Python programming. The test was monitored and evaluated by the members of Program Evaluation Committee. All 51 participants qualified the test by getting more than 25 marks.

Valedictory session was conducted on 16th November 2019 in the afternoon session. During this feedback has been collected from the participants. In their feedback, the participants expressed

Registration Form

AICTE Sponsored Two Week FDP on

“Technology Adoption and Implementation Towards a Smart Society”

1. Name:
2. Designation:
3. Organization:
4. Mailing Address:

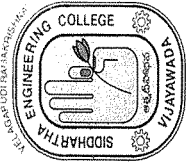
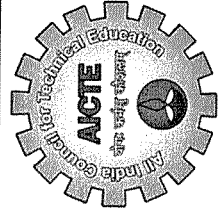
- Ph.No:
- email(Compulsory):
5. Participation Category:
(Faculty/Industry/R&D/Research Scholar)
6. Educational Qualification:
7. Courses Taught:
8. Experience in Years:
- Teaching: Research: Industry:
9. Accommodation Required(Yes/no):

Date Signature of the Applicant

Recommendation from Head of the Institution
Dr./Mr./Ms. _____

is an employee of the Institute/Organization and is here by allowed to participate in the AICTE sponsored FDP ‘Technology Adoption and Implementation Towards a Smart Society’ during 4th-16th November 2019 at VR Siddhartha Engineering College, Vijayawada, Andhra Pradesh.

Signature of the Head
with seal of the forwarding Institute



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Two week

Faculty Development Programme

on

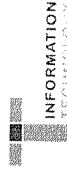
Technology Adoption and

Implementation

Towards a Smart Society

4th to 16th November 2019

Organized by



Department of

Information Technology

V.R. Siddhartha Engineering College

(Autonomous)

(Sponsored by Siddhartha Academy of General &
Technical Education)

Kanuru, Vijayawada,

Ph: 0866-2582333, 2584930

Visit us: www.vrsiddhartha.ac.in

e-mail: hodit@vrsiddhartha.ac.in

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Sri M. Rajayya, Vice-President & Convener,
VR Siddhartha Engineering College, SAGTE

Advisory Committee

Dr.A.V.Ratna Prasad, Principal
Dr.N.N.Sastry, Dean, R&D
Dr.B..Panduranga Rao, Dean, Student Affairs

Convener

Dr.M.Suneetha, Professor

Co-ordinators

Dr. T.Anuradha, Professor
Dr.K.SitaKumari, Associate Professor

Organizing Committee

Dr.G.RamaKoteswararao
Dr.Fathimabi. Sk
Mr. Y.Sandeep
Mrs.G.JayaLakshmi
Mr.BLN Phaneendra Kumar
Mr.M.Ramesh
Mrs.G.Geetha
Mrs.G.Neelima
Mrs.T.Lakshmi Surekha
Mrs.P.Ramadevi
Mrs.K.Madhavi
Mrs.P.Ramya
Mr.Ch.Nanda Krishna
Mr.Y.Kalyan Chakravarthi

Technical Support

Mr. S.Balaji
Mr. Joseph

Address for Correspondence

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VRSiddhartha Engineering College, Vijayawada, AP
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Contact number: 9491448298

INVITATION



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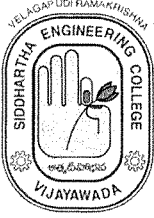
**TECHNOLOGY ADOPTION AND IMPLEMENTATION TOWARDS
A SMART SOCIETY**

November 4th - 16th, 2019

TO: _____

DEPARTMENT OF INFORMATION TECHNOLOGY

**VELAGAPUDI RAMAKRISHNA
SIDDHARTHA ENGINEERING COLLEGE**
(Autonomous, Accredited by NAAC – A Grade)
VIJAYAWADA-520 007
www.vrsiddhartha.ac.in



INVITATION



Department of Information Technology

**VELAGAPUDI RAMAKRISHNA
SIDDHARTHA ENGINEERING COLLEGE**
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VIJAYAWADA

Request your gracious presence at the Inaugural ceremony of

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**TWO WEEK FACULTY DEVELOPMENT PROGRAM On
TECHNOLOGY ADOPTION AND IMPLEMENTATION TOWARDS
A SMART SOCIETY**

November 4th - 16th, 2019
at 2.00 P.M on Monday, 4th November 2019.
Seminar Hall @ IT Department

Chief Guest

Dr. DVLN Somayajulu,
Director, IIT Kurnool

Distinguished Guests

Sri.N.Venkateswarlu
President, Siddhartha Academy of General & Technical Education

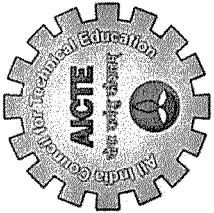
Sri.P.Lakshmana Rao
Secretary, Siddhartha Academy of General & Technical Education

Sri.M.Rajayya
Vice-President, SAGTE & Convener, V.R.Siddhartha Engineering College

Dr.A.V.Ratnaprasad
Principal, V.R.Siddhartha Engineering College

Convener
Dr.Suneetha Manne
Prof & Head, Dept. of IT

Coordinators
Dr.T.Anuradha
Dr.K.Sita Kumari



DEPARTMENT OF INFORMATION TECHNOLOGY
VELAGAPUDI RAMAKRISHNA SIDDHARTHA ENGINEERING COLLEGE



AICTE Sponsored Two Week FDP on
Technology Adoption and Implementation towards a Smart Society
4th to 16th November 2019

Day Wise Session Schedule

Day	Session 1 9:30 to 11:00 AM	Session 2 11:15 to 12:45 PM	Session 3 1:45PM to 3:15 PM	Session 4 3:30 to 5:00 PM
Day 1 4-11- 2019	Smart society- Its Applications Bahavani Shankar, ExecutiveManager(R&D) Efftronics Systems PVT. Ltd., Vijayawada	Demonstration of a smart city application Bahavani Shankar, Efftronics Systems PVT. Ltd., Vijayawada	Inauguration Chief guest – Dr. DVLN Somayajulu, Director -IIIT Kurnool	Introduction to smart society-Present state and future directions Dr. DVLN Somayajulu IIIT Kurnool
Day 2 5-11- 2019	IOT and its relevance in Smart cities Sri PrakashKaja CEO, Saadruso Technology Ventures Pvt.Ltd.,Banglore	Use cases Sri PrakashKaja Saadruso Technology Ventures Pvt.Ltd.,Banglore	Hands on session- IOT Sri Prakash Kaja Saadruso Technology Ventures Pvt.Ltd.,Banglore	Hands on session - IOT Sri Prakash Kaja Saadruso Technology Ventures Pvt.Ltd.,Banglore
Day 3 6-11- 2019	Big DataChallenges, Technologies Mr. VeerAnjaneyaRaju Founder and CEO, Big Data Minds, Hyderabad	Hadoop Cluster, Distributions Mr. VeerAnjaneyaRaju Big Data Minds, Hyderabad	Hadoop demon processes Mr. VeerAnjaneyaRaju Big Data Minds, Hyderabad	Map Reduce (hands on) Mr. VeerAnjaneyaRaju Big Data Minds, Hyderabad

Day	Session 1 9:30 to 11:00 AM	Session 2 11:15 to 12:45 PM	Session 3 1:45PM to 3:15 PM	Session 4 3:30 to 5:00 PM
Day 8 11-11-2019	Speaker recognition using AI Dr.V.AnilKumar Assistant Professor, IIIT, Hyderabad	Research issues- AI Dr.V.AnilKumar ,IIIT IIIT, Hyderabad	Big Data-Hadoop hands on Dr.Fathimabi, Sr.Asst. Professor Dept. of IT, VRSEC	Big Data-Hadoop handson Dr.Fathimabi, Dept. of IT, VRSEC
Day 9 12-11-2019	Introduction to SPARK Mr.Srinivasa Rao Gudivada, Sr.Developer, TCS, Hyderabad	Data Analytics with SPARK Mr.Trilochan Developer, TCS Hyderabad	SPARK SQL Mr.Trilochan TCS Hyderabad	Graph X Mr.Srinivasa Rao Gudivada, TCS ,Hyderabad
Day 10 13-11-2019	Python programming Mr.T.Pavan Sr.Trainer, APSSDC, Vijayawada	Python programming Mr.T.Pavan ,APSSDC, Vijayawada	Python programming Mr.T.Pavan ,APSSDC, Vijayawada	Python programming Mr.T.Pavan ,APSSDC, Vijayawada
Day 11 14-11-2019	IOT and its applications Dr.K.Sita Kumari, Associate Professor, Dept. of IT, VRSEC	IOT and its applications Arduino installation, Communication protocols Dept. of IT, VRSEC	IOT experiments with different sensors Mrs. TL Surekha , Asst. Prof, Dept. of IT, VRSEC	IOT experiments with different sensors Mrs. TL Surekha Dept. of IT, VRSEC
Day 12 15-11-2019	Digitization and Digitalization Sri M S.Subramanyam Delivery Head, TCS	Digitization and Digitalization Sri M S.Subramanyam Delivery Head, TCS	Digitization and Digitalization Sri M S.Subramanyam Delivery Head, TCS	Assessment Test
Day 13 16-11-2019	Data and Journey of Artificial Intelligence Mr.K.Amara LingeswaraRao, Program Director, IBM, Bangalore	Data and Journey of Artificial Intelligence Mr.K.Amara LingeswaraRao, IBM	Data and Journey of Artificial Intelligence Mr.K.Amara LingeswaraRao, IBM	Feedback and Valedictory

**AICTE Sponsored Two week
Faculty Development Programme
Technology Adoption and Implementation
Towards a Smart Society
4th to 16th November 2019**

Participants List

S. No	Name of the Participant	Name of the Organization	Department	Designation	email	Phone no
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48	Dr.G.Rama Koteswara Rao	VR Siddhartha Engineering College	IT	Professor	grkraoganga@gmail.com	9848463698	
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TECHNOLOGY ADOPTION AND IMPLEMENTATION TOWARDS**


A SMART SOCIETY

November 4th – 16th 2019

External Participants Registration

S.No	Name Of The Participant	Name Of The Organization	Department	Designation	Email	Phone No	Accommodation (Y/N)	Signature
1	Kapavarapu Nageswara Rao	Andhra Loyola Institute of Engineering And Technology, Vijayawada	CSE	Assistant Professor	nageswararao.kapavarapu@gmail.com	9248581059	No	
2	Razeena Begum Shaik	Andhra Loyola Institute of Engineering And Technology, Vijayawada	CSE	Assistant Professor	razeenabegum@gmail.com	9052772256	No	
3	M.Chandra Sekhar Varma	DNR college of engineering and technology, Bhimavaram	CSE	Assistant Professor	mcsvarma@gmail.com	9989724567	Yes	
4	Abdul Ahad	DNR college of engineering and technology, Bhimavaram	CSE	Associate Professor	ahadbabu@gmail.com	9866910112	No	
5	V.Subba Raju	Dhanekula institute of engineering and technology, Vijayawada	ECE	Assistant Professor	vsvnraju@gmail.com	9666222531	No	
6	N.Venkata Madhu Bindu	SRK institute of Technology	CSE	Assistant Professor	svmadhu.sms@gmail.com	9494511759	No	



7	Dr.Pavithra Roy Patibandla	Dhanekula institute of engineering and technology, Vijayawada	ECE	Professor	pavithra.rvk@gmail.com	8106323944	No	
8	Sana Sai Venkatesh	Andhra Loyola Institute of Engineering And Technology,Vijayawada	ECE	Assistant Professor	sanaivaivenkatesh@aiiet.ac.in	9494055660	No	
9	Merugumalli.Rama Krishna	Andhra Loyola Institute of Engineering And Technology,Vijayawada	ECE	Assistant Professor	ramakrishnamerugumalli@gmail.com	9395590250	No	
10	K.Srinivasa Rao	Andhra Loyola Institute of Engineering And Technology,Vijayawada	ECE	Assistant Professor	jntuksr@gmail.com	9849146991	No	
11	Ramineni Vijaya	PB Siddhartha college of Arts and Science, Vijayawada	CSE	Lecturer	vijayaramineni5@gmail.com	8247607035	No	
12	Gayala Vijaya Kumar	Andhra Loyola Institute of Engineering And Technology,Vijayawada	ECE	Assistant Professor	vijay.gayala@gmail.com	9701077654	No	
13	Parisae Veera Swamy	Dhanekula institute of engineering and technology, Vijayawada	ECE	Assistant Professor	veera2u@gmail.com	9948036036	No	
14	B.Balaji Bhanu	Andhra Loyola College, Vijayawada	Electronics	Lecturer	balajibattu@gmail.com	9885135522	No	
15	Y.Vijaya	Vijaya institute of Technology for Women	IT	Assistant Professor	vijaya.vitw@gmail.com	9966551717	No	
16	Y.V.K.D.Bhavani	Vijaya institute of Technology for Women	IT	Assistant Professor	bhavanivani35@gmail.com	9948400394	No	
17	Dr.G.Chenchanma	Vijaya institute of Technology for Women	ECE	Professor	gorantla_chenchamma@yahoo.com	8074225779	No	
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**TWO WEEK FACULTY DEVELOPMENT PROGRAM
TECHNOLOGY ADOPTION AND IMPLEMENTATION TOWARDS**

A SMART SOCIETY

November 4th – 16th 2019

INTERNAL FACULTY ATTENDANCE SHEET

S.No	Name Of The Participant	Name of the Institute	11/11/2019		12/11/2019		13/11/2019		14/11/2019		15/11/2019		16/11/2019	
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1	V.Sambasiva Rao	VRSEC - CSE												
2	Mastan Mohammed Meera Durga	VRSEC - CSE												
3	S.Rajeswari	VRSEC - CSE												
4	Dr.G.Anuradha	VRSEC - CSE												
5	N.Neelima	VRSEC - IT												
6	P.Ramya	VRSEC - IT												
7	K.Pranathi	VRSEC - IT												
8	S.Kranthi	VRSEC - IT												
9	Dr. Shaik Fathimabi	VRSEC - IT												



Proceedings of

AICTE Sponsored

Two Week FDP on

Technology Adoption and Implementation
towards a Smart Society

4th to 16th November 2019

Organized by

DEPARTMENT OF INFORMATION TECHNOLOGY
VELAGAPUDI RAMAKRISHNA
SIDDHARTHA ENGINEERING COLLEGE
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Department of Information Technology

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A SMART SOCIETY**

November 4th - 16th, 2019
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Seminar Hall @ IT Department

Chief Guest

Dr. DVLN Somayajulu,
Director, IIT Kurnool

Distinguished Guests

Sri.N.Venkateswarlu
President, Siddhartha Academy of General & Technical Education

Sri.P.LakshmanaRao
Secretary, Siddhartha Academy of General & Technical Education

Sri.M.Rajayya
Vice-President, SAGTE & Convener, V.R.Siddhartha Engineering College

Dr.A.V.Ratnaprasad
Principal, V.R.Siddhartha Engineering College

Convener

Dr.SuneethaManne
Prof & Head,
Dept. of IT

Coordinators

Dr.T.Anuradha
Dr.K.SitaKumari

INAUGURAL SESSION SCHEDULE

Registration	09.00 A.M
Session on "Smart society- Its Applications"	10.00 A.M-12.30 P.M
Introduction & Inviting guests to the dais	02.00 P.M
Prayer Song	02.02 P.M
Lightening the Lamp	02.05 P.M
Opening remarks by Convener	02.10 P.M
Messages of Distinguished Guests	02.15 P.M
Introduction of the Chief Guest	02.30 P.M
Message of the Chief Guest	02.35 P.M
Vote of Thanks	3.00 P.M
Technical session follows...	

RESOURCE PERSONS

<p>Dr. DVLN Somayajulu Director -IIT Kurnool</p> <p>Mr. M. S. Subrahmanyam Delivery head (SDN),TCS, Hyderabad,</p> <p>Mr. Amaralingeswararao Program Director,IBM</p> <p>Mr. D.Rama Krishna CEO, Efftronix System PVT. Ltd., Vijayawada</p>	<p>Dr. RashmiRanjan Rout Associate Professor, NITW</p> <p>Dr. V.Anil Kumar Assistant Professor, IITTH</p> <p>Mr. Bahavani Shankar, Executive Manager(R&D) Efftronix System PVT. Ltd., Vijayawada</p> <p>Mr. K.Prakash CEO, SaadruSo Technology Ventures Pvt.Ltd., Bangalore</p>
<p>Mr. G.Srinivasarao, Sr. Developer, TCS, Hyderabad</p> <p>Mr. VeerAnjaneyaraju Founder, Big Data Minds, Hyderabad</p> <p>Mr. K.Trilochan, Developer, TCS, Hyderabad</p>	<p>Mr. T.Pavan Kumar, Sr.Trainer, APSSDC</p>

DEPARTMENT OF INFORMATION
TECHNOLOGY
VELAGAPUDI RAMAKRISHNA SIDDHARTHA
ENGINEERING COLLEGE

AICTE SPONSORED



Two Week Faculty Development Program on
**Technology Adoption and
Implementation towards a Smart Society**
4th to 16th November 2019

Department of Information Technology, Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada conducted a Two Week Faculty Development Program, (FDP) sponsored by AICTE on "Technology Adoption and Implementation towards a Smart Society" from November 4th to 16th, 2019. The Faculty development Program focus on the theory, design, application and practical level training that enable immediate and effective participation in big data and IoT projects. The FDP intends to cover major applications and issues of IoT in Smart Society. It includes an introduction to Big Data and Data Analytics life cycle to address challenges that leverage Big Data for IoT applications. Hands-on sessions were conducted on IoT applications, Big Data Analytics technologies and tools including Map Reduce, Hadoop, SPARK and Python Programming.

Objectives of the FDP:

- To build up a sound understanding of Technologies and tools for Big Data Analysis like Hadoop, SPARK and Hive.
- To introduce the participants to the amazing world of IoT and its fascinating applications towards smart society
- To train and educate the research scholars, faculty and people from industry to interact on cutting edge technologies in the emerging areas of IoT and Big Data.

Outcomes of FDP:

- Hands on exposure in IoT and Big Data.
- Academic and research skills in IoT and Big Data
- Open ended problems towards building a smart society



Honorable chief guest
Dr.D.V.L.N.Somayajulu,
Sri.M.Rajayya, Convonor,
VRSEC, Dr.A.V.Ratna
Prasad, Principal, VRSEC,
Dr.RajeswaraRao, HOD, CSE
and Dr.M.Suneetha,
Convenor of the program
lighten the lamp.

Dr.A.V.Ratna Prasad, Prinicpal,
V.R.Siddhartha Engineering College
addressing the gathering



Dr.T.Anuradha, Coordinator presenting FDP
report



Sri.M.Rajayya , Convener,
V.R.Siddhartha Engineering
College addressing the
participants

Keynote Speaker
Dr.D.V.L.N.Somajajulu,
Director, IIIT, Kurnool,





Dr.M.Suneetha, Prof & Head, IT Dept, Convener of the program

Participants and other dignitaries



FELICITATION TO CHIEF GUEST



DAY 1: 4th November, 2019

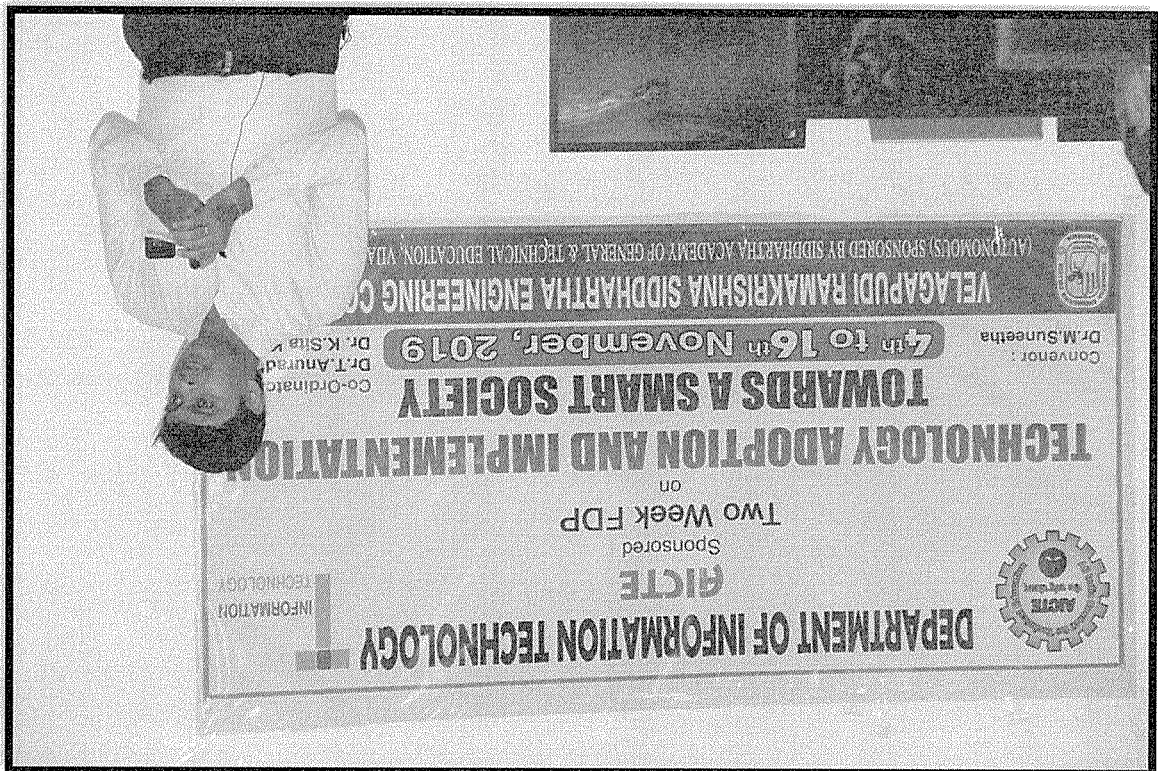
Morning Session

Topic : Smart society, Its Applications and Demonstration of Smart City Application

Resource Person : S. Bahavani Shankar, Executive Manager (R&D) Efftronics Systems Pvt. Ltd., Vijayawada.

Mr. S. Bahavani Shankar enlightened the participants with the significance and technologies used for building smart society with case studies on smart city, smart health, smart transportation system, smart water management system, smart learning etc.

He defined and explained smart city as "Safe, Secure, Health, Pleasant, Efficient, Learnable, Affordable, Entertainment, Sustainable & Dynamic". He explained real time project developed by Efftronics on smart traffic control system which gets the information of the vehicles by capturing the videos using cc cameras installed at Gandhi Nagar in Vijayawada city. He demonstrated how the smart traffic controlling system is working and Digital Twin for Smart Health. He suggested different tools available for Data Analytics: Grafana is for time series data, Power BI - descriptive analytics, Tensorflow for machine learning.

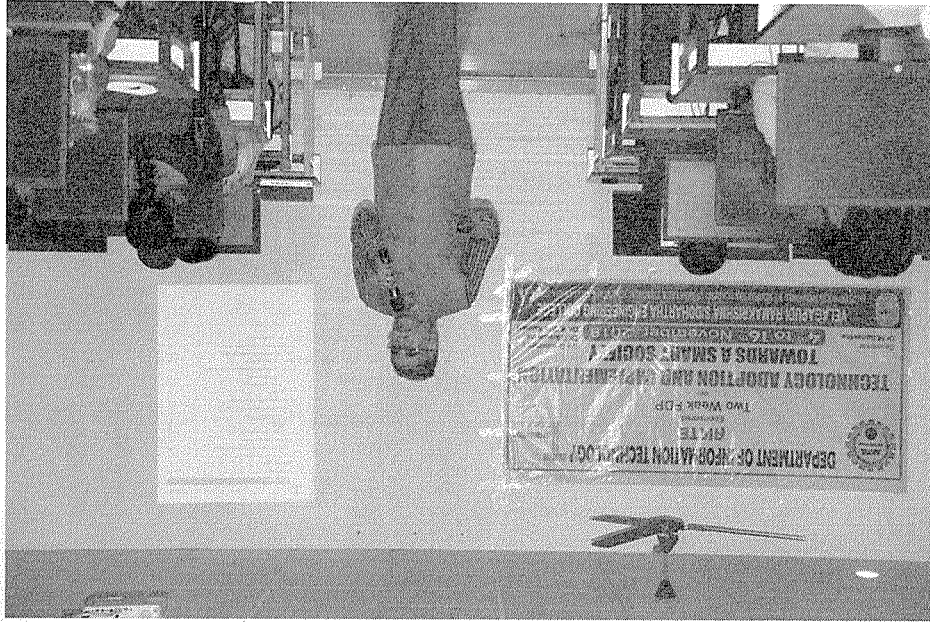


Sri. Bahavani Shankar delivering the session

The resource person **Dr. D.V.L.N Somayajulu** started his discussion with very basic idea of concept of education, learning and teaching. He shared few important aspects to be considered in teaching-learning process. He highlighted the importance of learning the latest technologies and gave idea about domains of learning i.e. cognitive, affective, psychomotor and interactive. He spoke on the importance of intelligent machines enabling high-level cognitive processes like thinking, perceiving, learning, problem solving and decision making, coupled with advances in data collection and aggregation, analytics and computer processing and power, AI presents opportunities to complement and supplement human intelligence and enrich the way people live and work. He highlighted the importance of AI and Machine Learning towards smart society.

Following topics were covered:

- Lack of broad based expertise in research and application of AI,
- Absence of enabling data ecosystems – access to intelligent data,
- High resource cost and low awareness for adoption of AI,
- Privacy and security issues in smart society.
- Absence of collaborative approach to adoption and application of AI.



DAY 2: 5th November, 2019

Morning Session

Topic: IoT and its relevance in Smart Cities

Resource Person: Sri.K.Prakash, CEO, Saadruso Technology Ventures Pvt. Ltd., Bangalore

The resource person Mr.K.Prakash explained how IoT is helping the people in society and how he was motivated to work on IOT based projects. He demonstrated one of his real time project developed for pollution monitoring at Vizag towards building a smart city. He explained the issues and challenges in Pollution Controlling System. He also covered the following topics

- Sensors
- Location of Sensor.
- Calibration mechanism.
- Communication from sensor to Server/IoT device.
- MQTT protocol and its 2byte header format
- Comparison of MQTT versus HTTP

He asked the participants to refer MQTT from the internet resource <https://isheild.com/mqtt-protocol/>



Sri PrakashKaja delivering on pollution Control system

DAY 2: 5th November, 2019

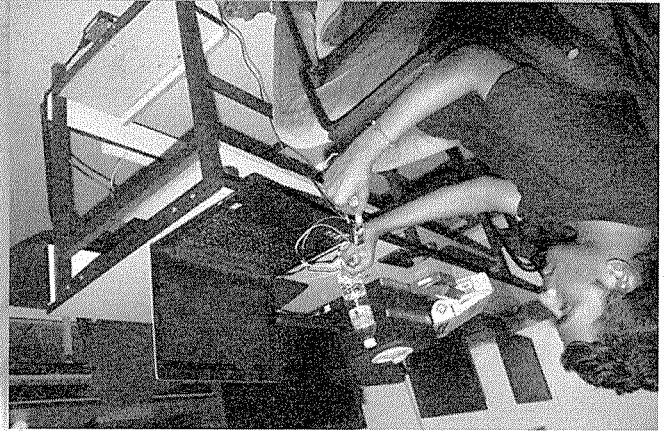
Afternoon Session

Topic: IoT and its relevance in Smart Cities – Hands on session

Resource Person: Sri.K.Prakash, CEO, Saadruso Technology Ventures Pvt. Ltd., Bangalore

In this session the participants were educated with the application of Eclipse Mosquitto which is an open source (EPL/EDL licensed) message broker to implement the MQTT protocol. He explained how to connect the database with cloud MQTT protocol. Participants learned how to create their own structure using PHP interface and database connectivity in demo given by Sri PrakashKaja.

The resource person also demonstrated few case studies like Heart beat monitoring system and Temperature monitoring system to the participants. Demonstration includes connections of sensors to Arduino board and how to develop the embedded programs for the case studies. Participants were provided with hands on session in embedded programming.



Demonstration of IoT use cases

DAY 3: 6th November, 2019

Morning Session

Topic: Big Data Challenges, Technologies, Hadoop Cluster, Distributions

Resource Person: Mr. VeerAnjaneyaraju, Big Data Minds, Hyderabad

The resource person started the session with Big Data importance in real world. Mr. VeerAnjaneyaraju explained about various types of data, basic concepts of Big Data and different components of Hadoop. Furthermore, applications of Big Data like Facebook, Amazon were discussed. He discussed challenges, opportunities and applications of Big Data. He also discussed Hadoop Ecosystem, advantages and how it can be used to provide solution to Big Data problems.

The resource person also threw some light on new technologies for student's job opportunities like:

- Spark with Scala, Python
- Kafka
- Cassandra, Mongo DB
- Cloud (AWS, GCP, Azure)



Mr. VeerAnjaneyaraju delivering the session

DAY 3: 6th November, 2019

Afternoon Session

Topic: Hadoop Demon processes, Map Reduce

Resource Person: Mr. VeerAnjaneyaraju, Big Data Minds, Hyderabad

In the afternoon session, Hadoop and Map reduce technologies are practically demonstrated and also focused on various VMware Player installation and Cloudera Introduction and Hadoop Architecture. The session aims to enrich the faculty members with the practical knowledge on MapReduce and how to manage the flow of data using Pig with various examples. Further the trainer elaborated pig components, data model and execution modes.

The participants were provided with hands on session in HDFS and Map Reduce commands for the programs written in Eclipse. He also introduced YARN (Yet Another Resource Negotiator) which is a resource management framework responsible for assigning computational resources for application execution. The session covered Map Reduce overview, job life cycle, Partitioning the input data with Hadoop, configure and run a Map Reduce job.



Mr. VeerAnjaneyaraju delivering Hadoop technologies

DAY 4: 7th November, 2019

Morning Session

Topic: Map Reduce work flow

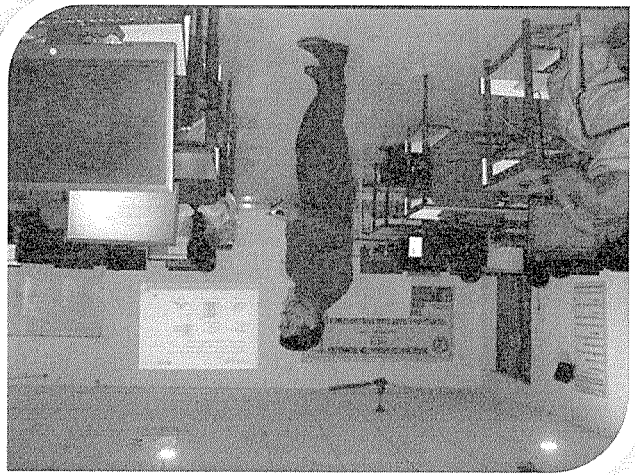
Resource Person: Mr. VeerAnjaneyakRaju, Big Data Minds, Hyderabad

The session was started with the concept of Map Reduce paradigm using word count example. He introduced the concept- Map Reduce data flow with one reducer. The three processes-mapper process, reducer process and driver process are explained with help of workflow diagram architectures.

WordCount Example reads text files and counts how often words occur. The input is text files and the output is text files, each line of which contains a word and the count of how often it occurred, separated by a tab.

Participants had a hands-on training on map reduce programs for Word Count program in Eclipse environment. The participants had exposure in writing mapper program, reducer program and a combiner program and also in creating and running a jar file.

Hands on sessions on Map Reduce



DAY 4: 7th November, 2019

Afternoon Session

Topic: Hive and Cassandra

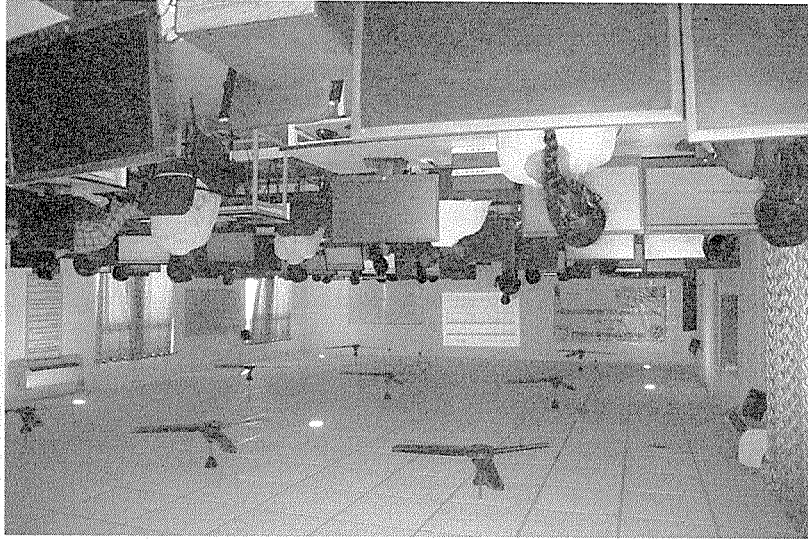
Resource Person: Mr. VeerAnjaneyRaju, Big Data Minds, Hyderabad

After the lunch break, the resource person continued his lecture on Hive which is a distributed data warehousing infrastructure built on top of Hadoop. He introduced the concepts like background of Hive, advantages of Hive and Hive Vs. Traditional RDBMS. He demonstrated how to Translate HiveQL statements into a set of MapReduce jobs which can get executed on a Hadoop Cluster.

Participants are trained to write Hive queries and execute them in both Command Line Interface (CLI) and Hue tool.

The session was value added with the Apache Cassandra database which is the right choice when scalability and high availability without compromising performance is needed. Cassandra's support for replicating across multiple datacenters is best-in-class, providing lower latency for your users and the peace of mind of knowing that you can survive regional outages.

Mr. VeerAnjaneyRaju enlightened the participants with trending technologies in industry. He provided hands on sessions.



Hands on Session on Hadoop and Hive

DAY 5: 8th November, 2019

Morning Session

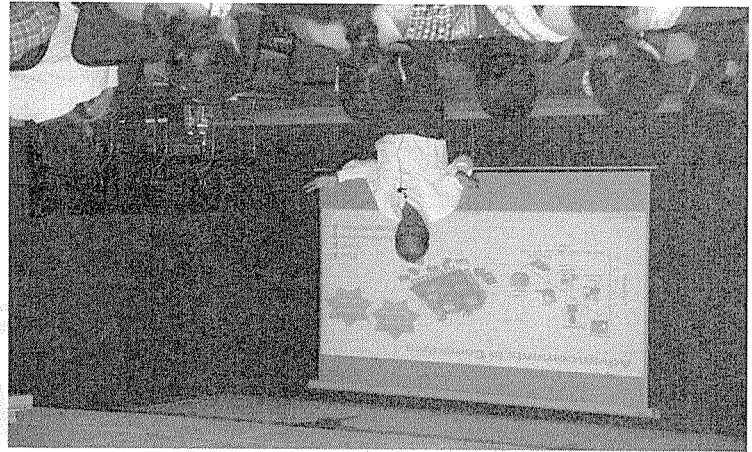
Topic: Technology Landscape for Smart cities

Resource Person: Sri D. Rama Krishna, CEO Efftronics, Vijayawada

Dr T. Anuradha, coordinator of the FDP introduced the session and Dr. K. Sita Kumar, Sumeetha HOD, IT felicitated the resource person Sri. D. Rama Krishna. He started the session with Industry revolutions from 1.0 to 4.0 and discussed about different categories of analytics.

He briefed about the descriptive analytics, diagnostic analytics, predictive and prescriptive analytics. He told that future is System of Systems. He also discussed about different technologies required for system of systems. He discussed about what is IOT and IOT architecture and its seven layers starting from Physical devices, connectivity, edge computing, data accumulation, data abstraction, application and collaboration process. He showed the data analytics for lunch feedback system and accident analysis

He entertained all the faculty with the technology and market, global economy and what we have to do as faculty to the students. He told that activity based training only will give better learning for students. He concluded the session with that our mindset has to change like "We have to control our future not our Fate". To control our future he suggested that follow the strategy "Adapt - Sustain - Grow". He motivated all the faculty to the next generation technologies.



Sri.D.Rama Krishna
demonstrating Industry 4.0



DAY 5: 8th November, 2019

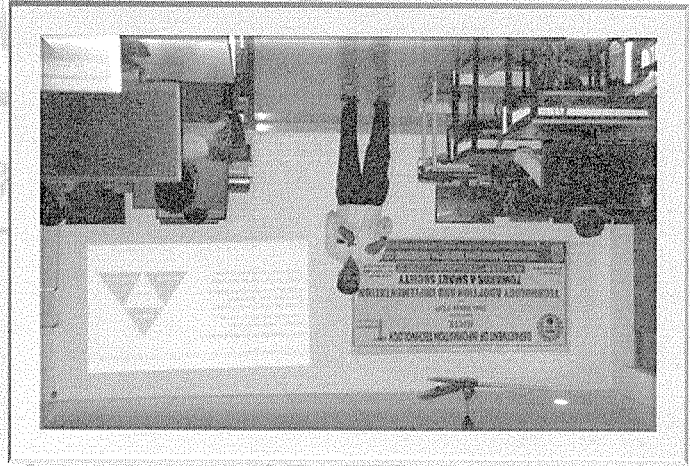
Afternoon Session

Topic: Data Analytics and Visualization

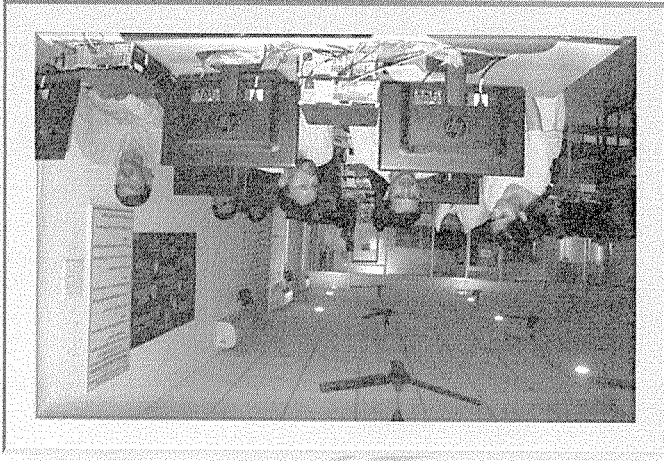
Resource Person : Mr.S.Bhavani Shankar, Executive Manager, Efftronics Systems Pvt. Ltd

The resource person Bhavani Shankar gave a very informative and bright talk on Core capability of digital society and ability to read, write and communicate data. He discussed Analytical domains: Information portal, analytics workbench, data science laboratories and AI Hub. The talk was mostly centralized on PowerBI, a visualization tool for data analytics. Basic concepts behind the working principle and its applications were explained in detail. It helped participants to acquire knowledge about PowerBI.

The participants were taught with the sequence of steps involved in creation of visualization dashboard. A hands-on session was conducted using Highway Accidents example. A visualization dash board has been created using all the available features on this example. There are so many great resources for creating reports in Power BI Desktop. The participants interacted with resource person & his team and clarified their doubts while designing of dashboard.



Participants Interacting with Resource Person & his team



DAY 6: 9th November, 2019

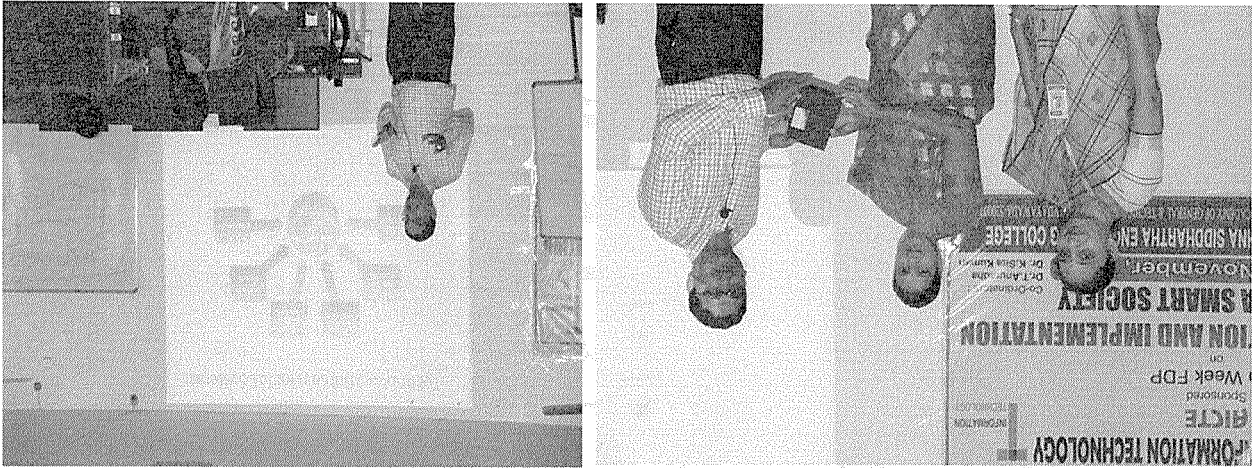
Morning Session

Topic: IOT for Smart Cities and Emerging Applications of Smart Cities

Resource Person: Dr. RashmiRanjana Rout, Associate Professor, NITW

Professor T. Anuradha coordinator of the FDP commenced the session and Dr. Sk. Fathimabi introduced the resource person and Prof. M. Suneetha HOD, IT, felicitated the resource person Sri. Dr. RashmiRanjana Rout, Associate Professor, NITW. He started the session with IOT definition and architecture of IOT of IOT. Then he explained about emerging projects for Smart City and suggested faculty to apply for funding in the following topics:

- Monitoring Water contamination
- Waste management
- Traffic congestion monitoring and decision support system.
- Air pollution monitoring
- Smart Grid and metering
- Geo Map of water
- Smart Healthcare(Urban & Rural)
- Smart Parking lot management
- E-governance Systems.



Coordinator and convener felicitating

Dr. RashmiRanjana Rout delivering the session

Topic: Fog Computing for Smart cities, Sensing and Analyzing Data using ThingsSpeak

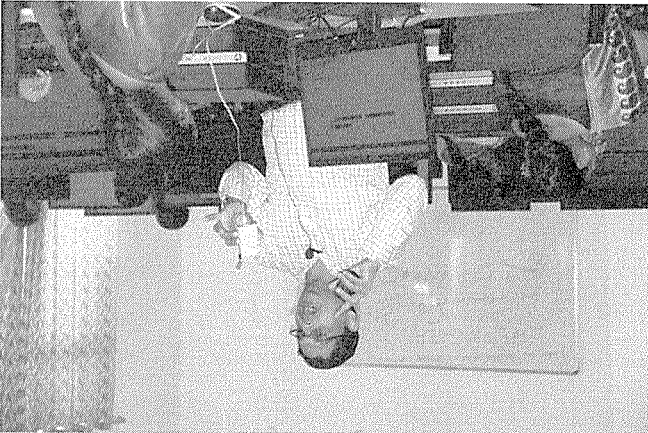
Resource Person: Dr. Rashmikiranjan Rout, Associate Professor, NITW

Expert outlined the origin and importance of IoT followed by recent development of IoT. He focused on basics of sensors and actuators, Arduino Programming –Interfacing and configuration of sensors with arduino software.

Dr. Rashmikiranjan Rout demonstrated for sensing temperature and humidity using MCU-ESP8266 and integrating the sensor real time values to the cloud. The sensed data is uploaded to the ThingsSpeak cloud using ESP8266 module. The real time data is visualized as graphical representation using Matlab.

ThingsSpeak for IoT Projects: Data collection in the cloud with advanced data analysis using MATLAB. Participants are enlightened with the basics of IoT sensors & actuators and integrating sensors with cloud and access real time data.

The resource person demonstrated humidity and temperature sensors using Arduino board, MCU. Cloud platform is used to store the sensed data. ThingsSpeak – IOT based cloud platform is used for demonstration. Another Application TalkBack is discussed which enables any device to act on queued commands. For example, if you have a door that is outfitted with Wi-Fi and a motion sensor, commands can be queued to open and close the door. The door will get opened when it senses anyone nearby and closes the door after a specified time. If there are no more commands in the queue, the door does not open when the next person approaches. New channel is created for Calculating and displaying average humidity.



The session was closed with the significance of fog computing and Vehicular Crowd sensing with IoT. An application fog-based vehicular Crowd sensing has been explained, and described the possible solutions to achieve security assurance, privacy preservation, and incentive fairness

Discussed Some applications of Fog based vehicular Crowd sensing like

- Parking Navigation
- Road surface monitoring
- Traffic collision reconstruction

Machine to machine (M2M) was discussed in which least human intervention is there.

The participants were enlightened with the research topics in IoT and also covered the topics

- Lightweight protocols for devices to work together, communicate
- Unique and extensible identifiers for all those billions of devices
- Demand for API access and interoperability
- Cyber Security
- Privacy and policy



Dr. Rashmi Ranjan Rout demonstrating the participants



Dr. M. Suneetha presenting a memento

DAY 7 : 11th November, 2019

Morning Session

Topic: Speaker recognition,

Resource Person: Dr. V. Anil Kumar, Assistant Professor, IIT Hyderabad

Dr. Anil Kumar started the session with discussion on relationship between AI, Machine Learning and Deep Learning and explained Recurrent neural networks. Later he explained how machine learning and Deep learning are useful in Speaker recognition. He clearly distinguished between Speaker identification Vs Speaker verification and explained the phases in Speaker identification system and Speaker verification system. He gave a demo of Speaker recognition using Python Jupiter notebook using **Gaussian mixture model and Deep Neural Network model.**

He had a discussion on cross validation in the case of small data sets and gave an example of 5 fold cross validation and enriched the faculty with research directions in natural language processing in Indian languages. He gave valuable suggestions for research and how to do good publications.



Dr. Anil Kumar delivering a lecture on Speaker Recognition

DAY 7: 11th November, 2019

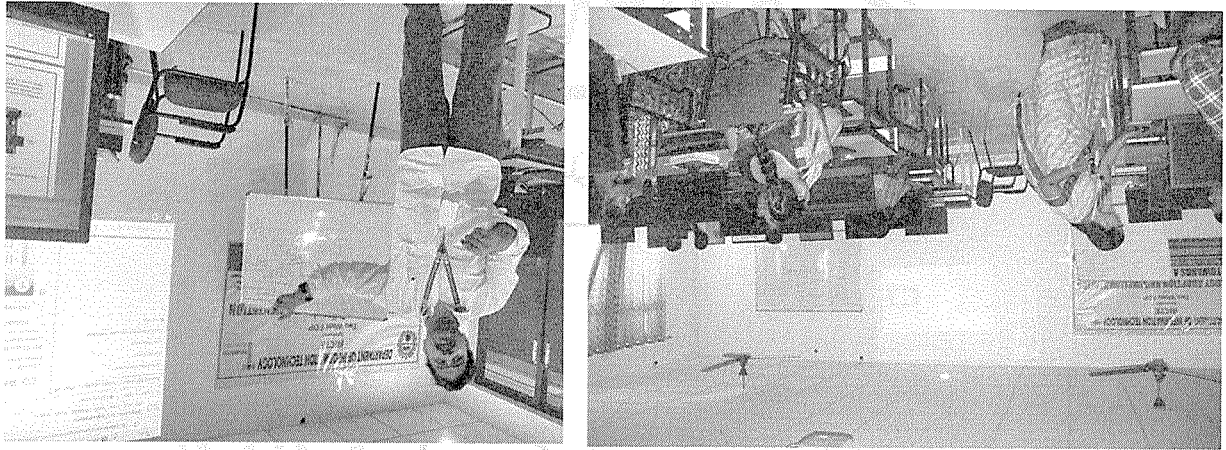
Afternoon Session

Topic: Hands on Session on Big data processing using Pig Latin

Resource Person: Dr. ShaikFahimabi, Sr. Asst. Professor, Dept. of IT, VRSEC.

Dr. Fahimabi started the session by highlighting the limitations of Map Reduce and how to overcome them by using Pig. She explained the topics on Pig components, Pig Features, Pig Latin statements and Application of Pig Latin. She gave demo on Pig Latin using local mode and Map Reduce mode. Hands on session was conducted on how to load the data from local file system or HDFS and processing the data with Pig Latin statements.

Then one of the participants from Andhra Layola College of Engineering and Technology TVM Sairam shared his knowledge on Google Colabs and how to use it to execute python programs. He also explained about the health care dataset which he is using in his research.



Hands on session on PigLatin by Dr.Fahimabi Mr.TV.Sairam sharing his Knowledge

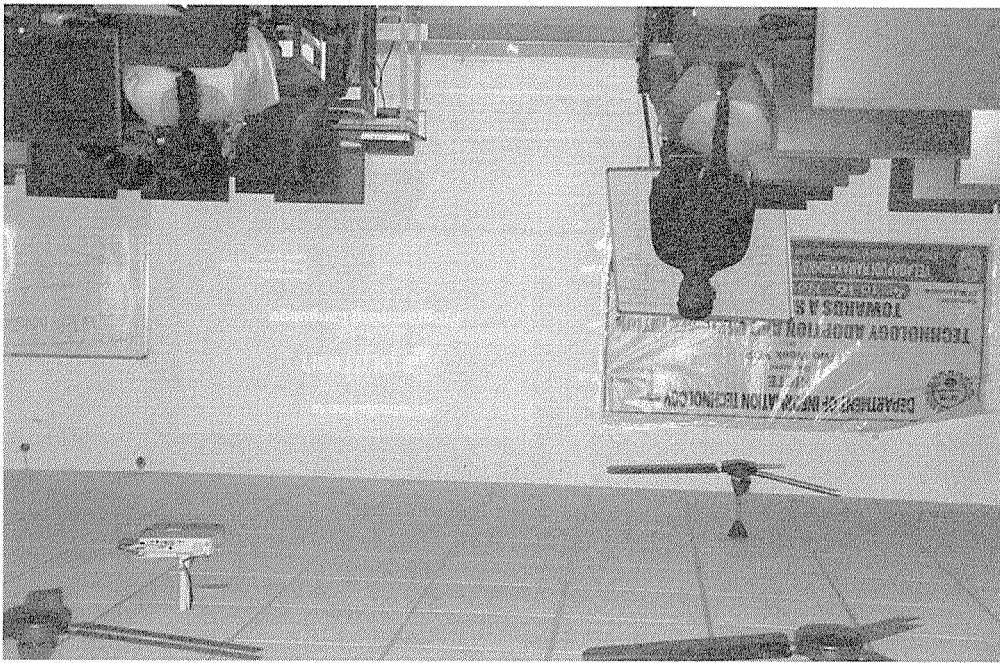
DAY 8 : 12th November, 2019

Morning Session

Topic: Python Programming Hands on

Resource Person: Mr. Pavan Kumar Reddy Tadi, Sr Trainer, APSSDC

Resource person started the session with Python features and why python became popular for Data Science. He explained the topics like Applications of Python, Anaconda Navigator, Jupiter Notebook and how to install python and Anaconda Navigator. He gave demo on working with python from the basics like how to display the value of a Variable, Type inference, Lists, Tuples, Dictionaries and Loops using Jupiter Notebook All the participants practiced python programming from the basics. He explained how to get python help files from python.org.



Mr. T.Pavan Kumar delivering the session

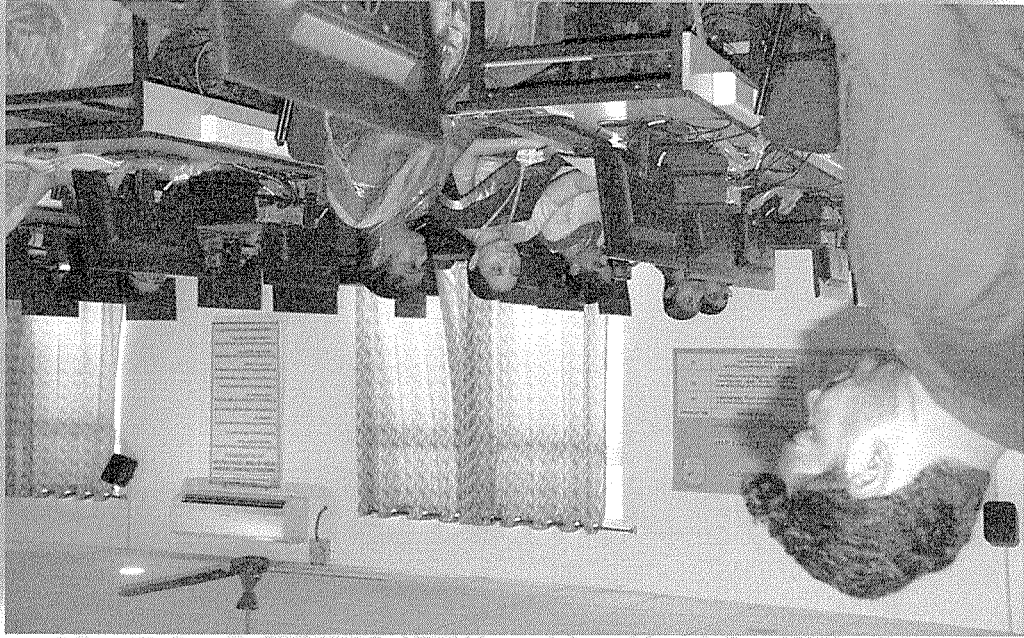
DAY8 : 12th November, 2019

Afternoon Session

Topic: Python Programming Hands on

Resource Person: Mr. Pavan Kumar Reddy Tadi, Sr Trainer, APSSDC

The session started with the introduction of different packages like Numpy, Pandas, Matplotlib and how to download them. All the participants practiced the Numpy package by working with single dimensional arrays, two dimensional arrays, 3D arrays and vector operations on Arrays. Resource person explained how to download data from Kaggle and how to process with Pandas package. All the participants practiced the data analytics and visualization using Pandas and Matplotlib.



Participants practicing Python Programs

DAY 9 : 13th November, 2019

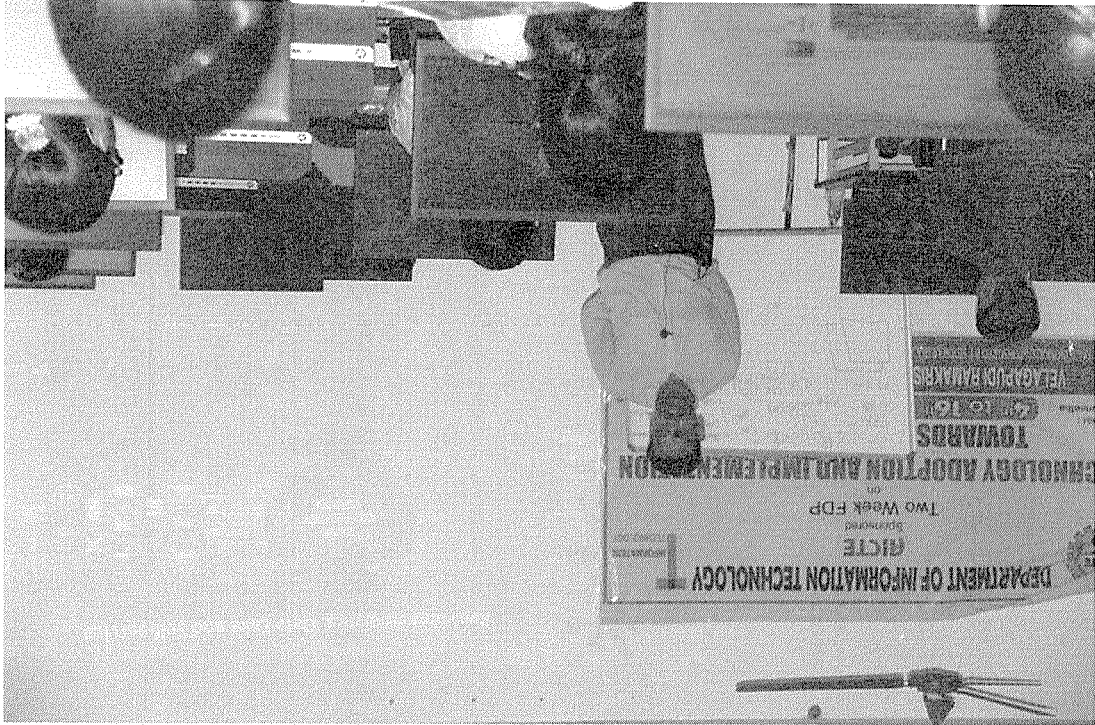
Morning Session

Topic: Introduction to SPARK, Data Analytics with SPARK

Resource Person: Mr. G. Srinivasarao, Sr Developer, TCS, Hyderabad

Resource person started the session with the use case of Big Data with Big Data tools and how TCS people are using Big Data tools for real time problems. He explained the topics like how to decide the Big Data tools for a particular problem, Introduction to Spark, Features of Spark, Architecture of Spark, RDD features, Operations on RDD, Persistence or Cache of RDDs.

He also have a talk on Google photo studio and work of Google brain team and on Tracking of medical trucks, a real-time project designed using IoT gateway, Kafka and Spark, California Smart City Project which is an example of Connected Homes has also been discussed to create awareness to participants about new emerging technologies in the area of Data Science.



Mr. G. Srinivasarao delivering the session

DAY 9: 13th November, 2019

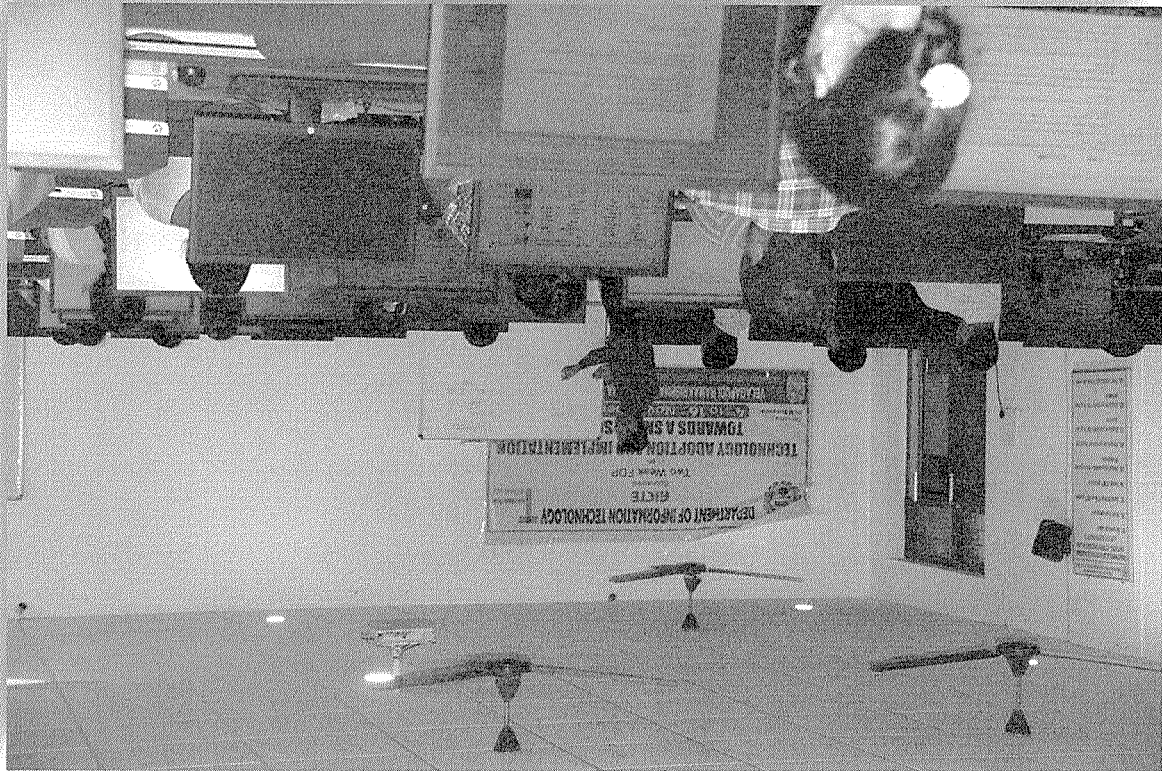
Afternoon Session

Topic: Spark Streaming, SPARK SQL, Graph X

Resource Person: Trilochan Kumbhakar TCS, Hyderabad

Mr. Trilochan explained spark streaming with real time usecases like health sector and other domains. He gave demo on Spark SQL and explained Graphx and Flink, their applications and features. He enlightened the participants with how Smart city applications can be build with Kafka and Spark streaming.

Participants practiced creating clusters in Databricks platform.



Mr. Trilochan explaining Spark

DAY 10: 14th November, 2019

Morning Session

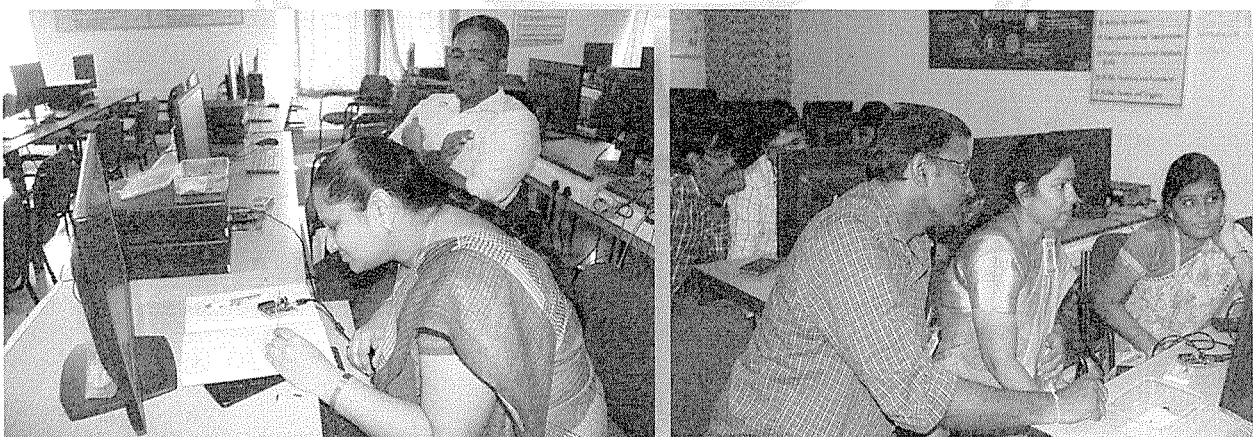
Topic: IoT and its Applications

Resource Person :Dr.K.SitaKumari, Associate Professor, IT Dept, VRSEC

Resource person explained the basics of IoT and its applications. The resource person focused on Arduino IDE installation, basic programming constructs for Arduino and various communication protocols used. She explained Arduino programming and how to connect the sensors to the Arduino board and display the data read by the sensors on the monitor. The participants had an hands on practice in developing simple IoT applications using Arduino like Implementation of Traffic Signals, Temperature and Humidity monitoring.



Hands on session on IoT with Arduino



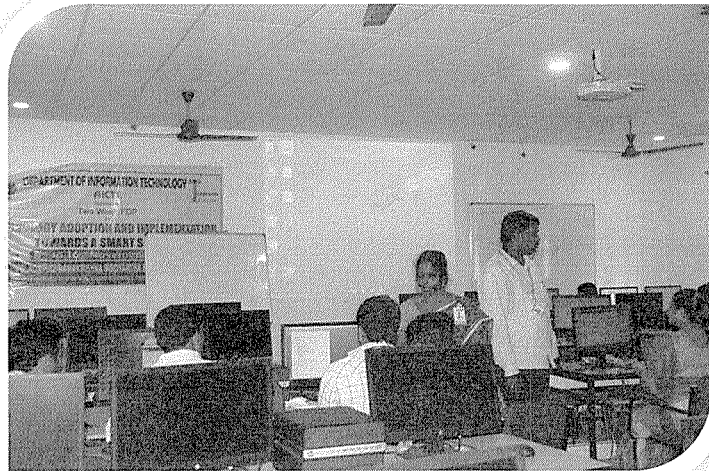
DAY 10: 14th November, 2019

Afternoon Session

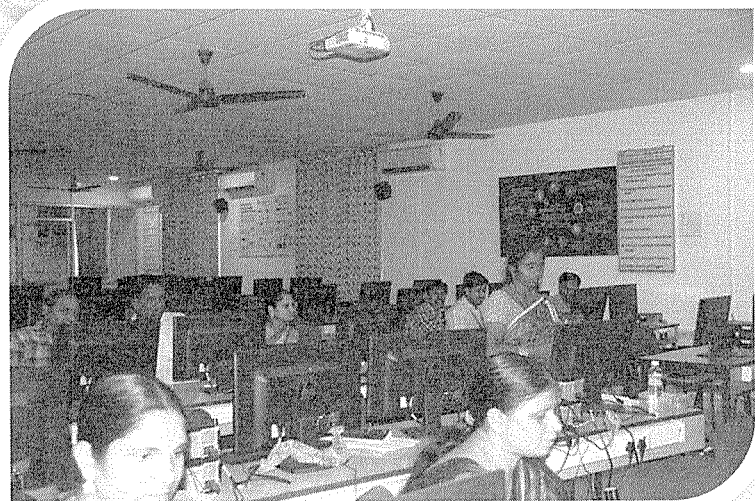
Topic: IoT and its Applications

Resource Person :Mrs.T.LakshmiSurekha, Assistant Professor, IT Dept, VRSEC

The afternoon hand on session was conducted by Mrs.T.LakshmiSurekha. She demonstrated how build an IoT application with different sensors like PIR Sensor, IR sensor and Ultrasonic sensor. She explained how sensors should be connected to the board and how to retrieve the sensor data. The participants had implemented the IoT applications.



Hands on session on IoT



DAY 11: 15th November, 2019

Morning Session

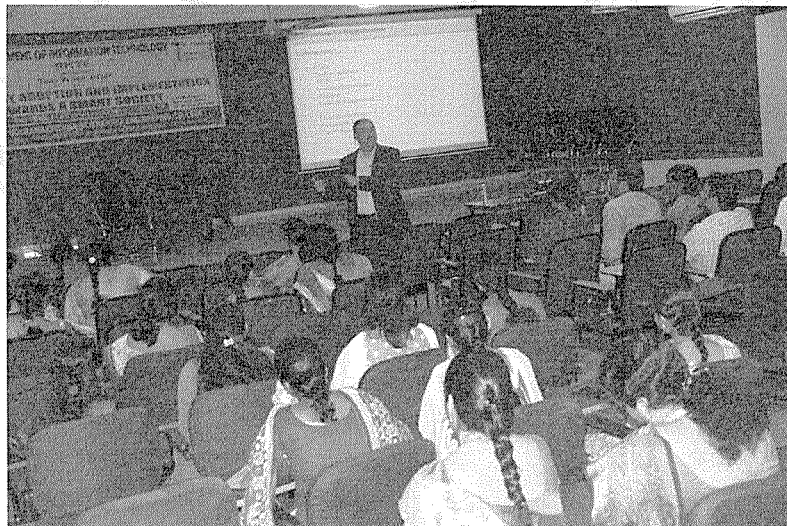
Topic: Digitization and Digitalization

Resource Person : Sri M.S Subramanyam, Delivery Head,TCS

Sri M.S.Subramanyam started his lecture by differentiating between digitalization and digitization and how world has been transformed from digitalization to digitization. Digitization is the conversion of analog to digital, whereas digitalization is the use of digital technologies and digitized data to impact how work gets done, transform how customers and companies engage and interact, and create new (digital) revenue streams.

He then discussed real-time examples stating how Digitization, Digitalization and Digital transformation taken over some industrial areas like Audio Cassettes, Local Cab Services, Banking, Railway Reservation and some office less industries like Hotel Reservation, Restaurant & Food and Car rentals. He explained the impact on the company's revenue which have not digitalized their activities.

He discussed an IoT based case study: "vehicle tracking and passenger identification system" in which vehicle is equipped with a sensor device and with help of GPS data is captured, then stored and analyzed at data center. The resource person continued his lecture by explaining the enterprise cloud and its significance.



Sri M.S.Subramanyam delivering a lecture

DAY 11: 15th November, 2019

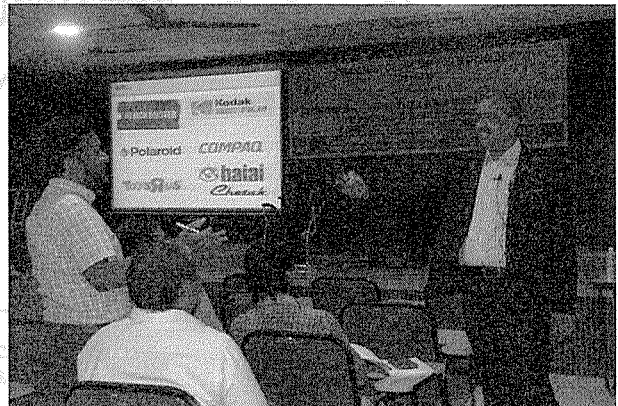
Afternoon Session

Topic: Digitization and Digitalization

Resource Person : Sri M.S Subramanyam, Delivery Head,TCS

Afternoon session was continued with the discussion on Big Data Analytics and its features; importance in today's real world. The resource person advised the participants to focus on Tuning Syllabus, Customized Learning, Grading System, Career Predictions, teaching Methodology for student projects.

The resource person also discussed Block chain technology, how it is decentralized and distributed. He concluded the session with a talk on Artificial Intelligence and its vital role in human life. He discussed various concepts of Cryptography, Distributed System, Cryptocurrency, Blockchain Mining, Advances in Blockchain and its applications. The session was very informative and interactive and most of the participants were actively interacted with the resource person.

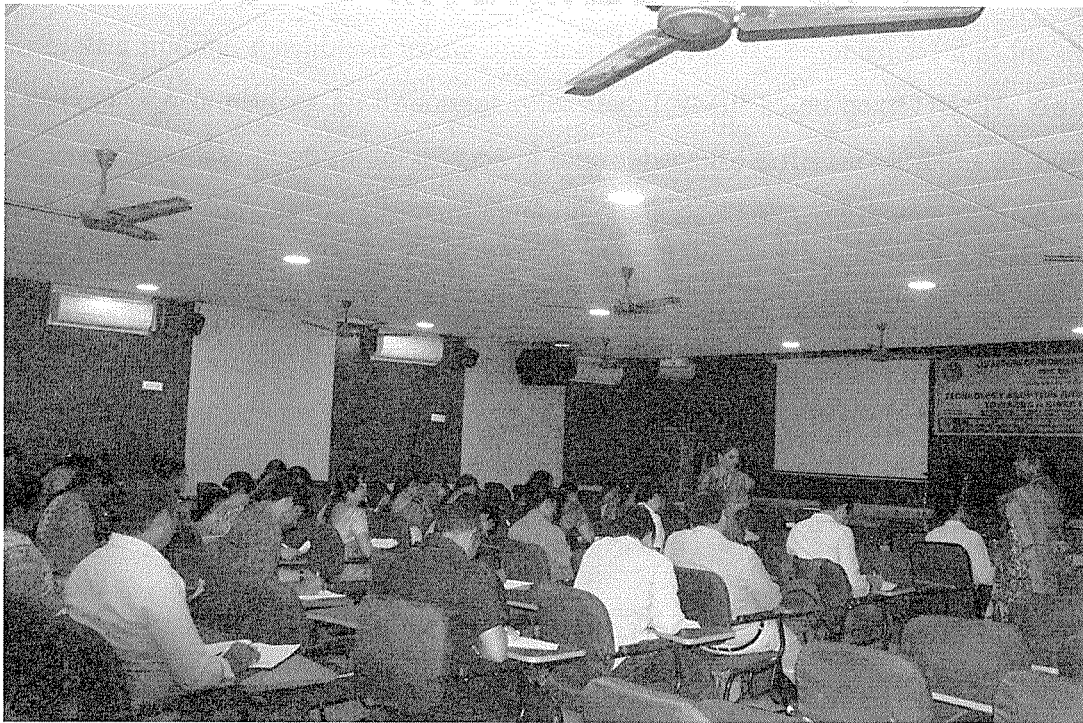


Participants interacting with the resource person



Assessment Test for the Participants

The assessment test was conducted for all the participants after the tea break at IT seminar hall. The coordinators of the FDP program Dr.T.Anuradha&Dr.K.SitaKumari has made the necessary arrangements for the smooth conduction of the test. The test is conducted off-line for one hour with 50 objective type questions covering various topics discussed in the FDP.



**Assessment test conduction by FDP Coordinators:
Dr.T.Anuradha & Dr.K.SitaKumari**

DAY 12: 16th November, 2019

Afternoon Session

Topic: AI in Data Science and Use Cases

Resource Person : Sri.K.AmaralingeswaraRao, Program Director, IBM, Bangalore

Resource person enlightened the participants on “HOW AI is playing an important role in Data Science” with real time examples. He explained about the Watson Explorer for Data Science. He explained about IBM Watson and machine learning, supervised learning, unsupervised learning, reinforced learning and Use case of video analytics etc.,



Mr.K.AmaralingeswaraRao delivering the session on the role of AI in Data Science

VALEDICTORY FUNCTION AND CERTIFICATE DISTRIBUTION

Date : 16/11/2019

Time: 4:00PM

Chief Guest: Mr. K. Amara LingeswaraRao, Program Director, IBM, Bangalore.

The program ended with the valedictory function which was graced with the presence of Sri.K.AmaralingeswaraRao, Program Director, IBM and Dr.M.Suneetha, Prof & Head, IT Department. Dr.K.SitaKumari began the proceedings by welcoming the chief guest.

Valedictory Function was started with FDP report by Prof. T. Anuradha, coordinator and she she expressed gratitude to all the resource persons from various reputed institutes and IT companies, and organizing faculty.

Dr. M. Suneetha, convener in her valedictory talk appreciated the coordinators of the program and congratulated the entire organizing committee for the successful conduct of the two week FDP program. She enlightened the participants on the future education system with New educational policies. She highlighted the areas where the faculty has to focus to meet the challenges of the new educational policy in future. She gave lot of best practices the faculty has to follow to improve their R&D and how to balance both teaching and research without any stress.

Chief guest of the valedictory function, Sri.K.Amaralingeswara Rao gave his valuable speech on how skills, technology will transform the life of the people. He enlightened the faculty on continuous learning, technology adoption to transform the people.



Mrs.P.Ramya welcomed Sri.K.AmaralingeswaraRao by presenting bouquet



Sri.K.AmaralingeswaraRao
addressing the gathering

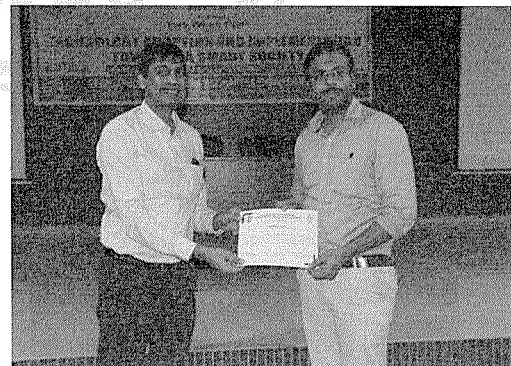
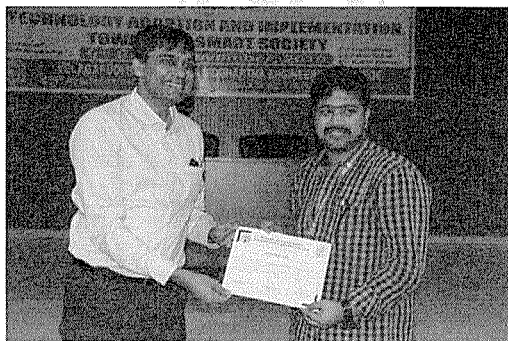
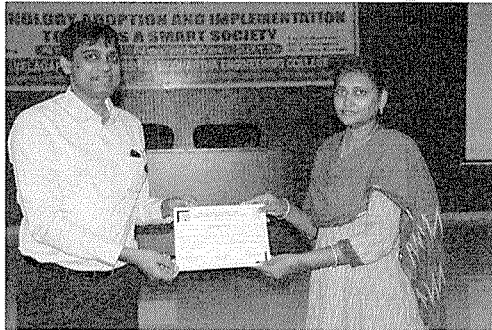
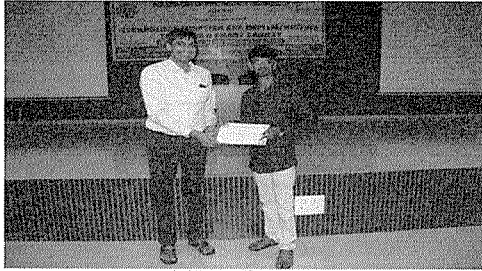


Dr.M.Suneetha, Convener
addressing the gathering



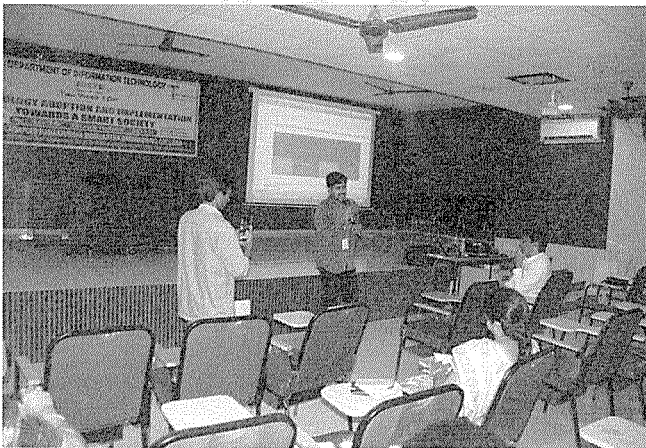
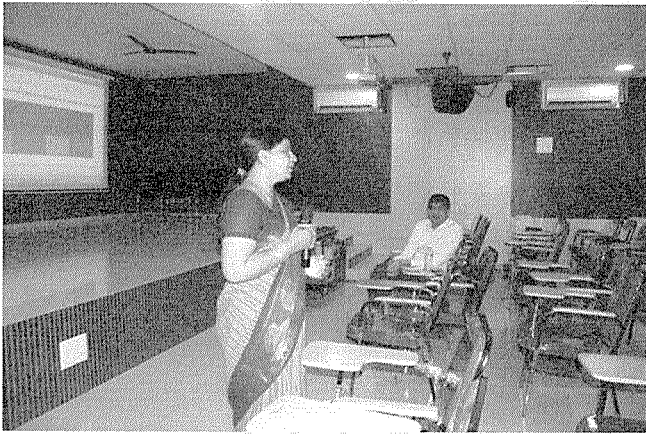
Dr.T.Anuradha, Coordinator
and Dr.M.Suneetha,
Convener presenting a
memento

THE
AWARDING CERTIFICATES TO THE PARTICIPANTS BY THE
CHIEF GUEST



FEEDBACK FROM THE PARTICIPANTS

It's the constant endeavour of the Institute to improve the quality of its continuing academic activities. Participants' observation/feedback is critical in improving the quality of the program. Feedback is taken from few participants regarding the FDP program. Participants appreciated the coordinators and the institution for conducting such events. They expressed that the program was very much useful for continuing their research work.



Faculty Development Programme

Feedback Form

FDP Name: _____ Date: _____

Name of the Institution (Where FDP organised): _____

Name of the Participant: _____ Father's Name: _____

Educational Qualification: _____

Affiliated Institute with Designation: _____

Teaching Experience: _____

Address: _____

Phone No: _____ Mobile No: _____ e-mail ID: _____

- Whether any programme of this type was attended earlier by you? (Kindly tick mark)

Yes _____ No _____

Give Details if Yes: _____

If Yes, whether this programme is better than the previous one

Yes _____ No _____

Give reason for your answer _____

- Write down the benefits got by attending this programme?

- Write down your experience of such type of interaction with experts from different institutes before this programme?

- Does this programme have brought any change in your understanding of the subject, teaching skills and your attitude towards the teaching profession?

- Have you found any innovative idea of making teaching-learning process more interesting from this programme? Explain.

- Whether initiatives like this should be organized in the coming future or not? Give reason.

- What amount of course fee should be charged for such programme?

- Please give the brief detail of your experience?

- Kindly give rating to the different aspects of FDP (Out of 10 marks)

Particular	Marks Given	Any Remarks
(a). Infrastructure	_____	_____
(b). Course Content	_____	_____
(c). Resource Persons	_____	_____
(d). Presentations	_____	_____
(e). Interactive Sessions	_____	_____
(f). Reading Material	_____	_____
(g). Basic Facilities	_____	_____
(h). Overall	_____	_____

Signature of the Participant

Course Co-ordinator

Faculty Development Programme

Feedback Form

FDP Name: Technology Adoption & Implementation Date: 16/11/2019
towards A Smart Society
Name of the Institution (Where FDP organised): Velagapudi Rama Krishna Siddhartha Engg. College
Name of the Participant: ABDUL AHAD Father's Name: ABDUL KALAM
Educational Qualification: B.Tech, M.Tech. (Ph.D)
Affiliated Institute with Designation: DNR College of Engg. & Technology, Associate professor
Teaching Experience: 12
Address: Balusumudi, Bhimavaram
Phone No: _____ Mobile No: 9866910112 e-mail ID: ahadbabu@gmail.com

- Whether any programme of this type was attended earlier by you? (Kindly tick mark)

Yes _____ No

Give Details if Yes: _____

If Yes, whether this programme is better than the previous one

Yes _____ No _____

Give reason for your answer _____

- Write down the benefits got by attending this programme?

This programme is very much useful for
Technical Institutions faculty members as well as
PG Students.

- Write down your experience of such type of interaction with experts from different institutes before this programme?

This FDP program is experts are well
experienced and they are given the outstanding
knowledge to us.

- Does this programme have brought any change in your understanding of the subject, teaching skills and your attitude towards the teaching profession?

Yes, This program more useful for us
to gain the new technical subject
knowledge

- Have you found any innovative idea of making teaching-learning process more interesting from this programme? Explain.

What ever the knowledge given by the exper's almost innovative and interesting for us and these are most useful for future outcome come best learning system.

- Whether initiatives like this should be organized in the coming future or not? Give reason.

Yes, I am sincerely saying, this type of FDP programs should be very much need for faculties as well as students.

- What amount of course fee should be charged for such programme?

- No Comment -

- Please give the brief detail of your experience?

My experience by this Two week FDP programme is uncountable because I learned and gain most valuable information with hands on experience.

- Kindly give rating to the different aspects of FDP (Out of 10 marks)

Particular	Marks Given	Any Remarks
(a). Infrastructure	10	-
(b). Course Content	10	-
(c). Resource Persons	9	-
(d). Presentations	9	-
(e). Interactive Sessions	10	-
(f). Reading Material	10	-
(g). Basic Facilities	10	-
(h). Overall	10	-


Signature of the Participant


Course Co-ordinator

Faculty Development Programme

Feedback Form

FDP Name: Technology Adoption and Implementation Date: _____
Name of the Institution (Where FDP organised): RVRS EC
Name of the Participant: Y. VIJAYA Father's Name: Y. Venkat Nalayaana
Educational Qualification: MTECH (PHD)
Affiliated Institute with Designation: VITW, Erikepadu
Teaching Experience: 15
Address: Vijaya Institute of Technology For Women
Erikepadu
Phone No: 9966551717 Mobile No: _____ e-mail ID: vijaya.vitw@gmail.com

- Whether any programme of this type was attended earlier by you? (Kindly tick mark)

Yes No _____

Give Details if Yes: _____

If Yes, whether this programme is better than the previous one

Yes No _____

Give reason for your answer It is 2 weeks program

- Write down the benefits got by attending this programme?

Good Knowledge in IOT and
Big data Technologies. and
Other latest Technologies

- Write down your experience of such type of interaction with experts from different institutes before this programme?

We Had interaction with Industry
People, in the previous FDP's

- Does this programme have brought any change in your understanding of the subject, teaching skills and your attitude towards the teaching profession?

Yes, Definitely this will help in
in understanding latest Technologies.

Faculty Development Programme

Feedback Form

FDP Name: Tech. Adaptation & MIT-towards smart society. Date: 16/11/19

Name of the Institution (Where FDP organised): VRSEC.

Name of the Participant: V. SUBBARAJU Father's Name: V. SAMBASIVA RAJU

Educational Qualification: M.Tech

Affiliated Institute with Designation: D.I.E.T, Asst Professor

Teaching Experience: 8 years.

Address: 1-89, Kankipadu (Post & Mandal)

Phone No: 9666222531 Mobile No: _____ e-mail ID: VSUBBARAJU@gmail.com.

- Whether any programme of this type was attended earlier by you? (Kindly tick mark)

Yes No

Give Details if Yes: IOT & its uses called at NITW.

If Yes, whether this programme is better than the previous one

Yes No

Give reason for your answer IOT coverage is restricted to few concepts only and concentrated only on Hadoop.

- Write down the benefits got by attending this programme?

→ understood concepts of HADOOP.
→ understood concepts of Neural Networks.

- Write down your experience of such type of interaction with experts from different institutes before this programme?

→ experts simplifies the understanding.

- Does this programme have brought any change in your understanding of the subject, teaching skills and your attitude towards the teaching profession?

yes, industrial requirements can be addressed to students during our lecture.

Faculty Development Programme

Feedback Form

FDP Name: Technology Adoption and Implementation
Towards a Smart Society Date: 4th to 16th November 2019

Name of the Institution (Where FDP organised): V.R. Siddhartha Engineering College

Name of the Participant: Dr. B. Srikanth Father's Name: B. Nageswara Rao

Educational Qualification: M.Tech., Ph.D

Affiliated Institute with Designation: Kallam Haranadhareddy Institute of Technology, Professor

Teaching Experience: 14.5 years

Address: 9-52-7, Raghava Reddy Road, Vijayawada-1

Phone No: 9963480304 Mobile No: 9963480304 e-mail ID: Srisikanth.busa@gmail.com

- Whether any programme of this type was attended earlier by you? (Kindly tick mark)

Yes _____ No X

Give Details if Yes: _____

If Yes, whether this programme is better than the previous one

Yes Yes No _____

Give reason for your answer Provided strong knowledge in
the area of Technology Adoption in Bigdata and so on...

- Write down the benefits got by attending this programme?

Got strong knowledge in the Bigdata
Area particularly in SPARK

- Write down your experience of such type of interaction with experts from different institutes before this programme?

- Does this programme have brought any change in your understanding of the subject, teaching skills and your attitude towards the teaching profession?

Yes

47. Spark was initially started by _____ at UC Berkeley AMPLab in 2009.

- a) Mahek Zaharia
- b) Matei Zaharia
- c) Doug Cutting
- d) Stonebraker

Answer:

48. Sqoop uses _____ to fetch data from RDBMS and stores that on HDFS.

- a) Hive
- b) Map reduce
- c) Imphala
- d) BigTOP

View Answer

Answer:

49. _____ allows users to specify the target location inside of Hadoop.

- a) Imphala
- b) Oozie
- c) Sqoop
- d) Hive

Answer:

50. _____ provides a Couchbase Server-Hadoop connector by means of Sqoop.

- a) MemCache
- b) Couchbase
- c) Hbase
- d) All of the mentioned

Answer: