Brief Profile of the Department of CS & E:
The Department of Computer Science & Engineering was established in the year 1991. The department offers high quality undergraduate, postgraduate and doctoral programs. The Department has a team of well experienced faculty, graduated from IIT’s, NIT’s, Central Universities and other premier Institutes of higher learning. The department provides state-of-art research facilities to generate knowledge and develop technologies in the thrust areas of Computer Science and Engineering.

Brief Profile of the Department of Biotechnology:
The Department of Biotechnology was established in the year 2006 with B.Tech in Biotechnology. It also offers doctoral program in Biotechnology. The Department has a team of well experienced faculty, graduated from IIT’s, NIT’s, Central Universities and other premier Institutes of higher learning. The department has sophisticated instruments and softwares to carry out research in biotechnology and bioinformatics.

For any query regarding this workshop, please contact the Coordinators.
Dr. Perugu Shyam,
Assistant Professor, Mobile: 9948561761
Department of Biotechnology.
Dr. M. Sandhya,
Assistant Professor, Mobile: 9394468554
Department of Biotechnology.
Dr. S. Ravichandra,
Associate Professor, Mobile: 8332969414
Department of CS & E.
Prof. A. Ramachandraiah, Coordinator, Teaching and Learning Centre, NIT Warangal.
Email: workshop@nitrw@gmail.com

A Six Day Faculty Development Workshop on
“Teaching and Learning Practices of Data Analysis through Hands-on Experience.”

09th - 14th March, 2020

Call for Registration and Participation

Organized by the
Department of CS & E and Department of Biotechnology

In association with the
Teaching Learning Centre
National Institute of Technology
Warangal - 506 004, Telangana State
Overview of the FDP:
Data analysis is an important aspect to understand problems faced by an organization, and to explore data in meaningful ways. Data in itself is merely facts and figures. Data analysis organizes, interprets, structures and presents the data into useful information that provides context for the data. This context can then be used by decision-makers to take action with the aim of enhancing productivity. This FDP is aimed to bring out effective teaching and learning practices of data analysis in various applications.

Objectives:
- To provide a platform to discuss the data science ecosystems which covers the need of data analysis in various areas like biomedical, defense, e-commerce, education etc.
- To investigate theoretical and practical aspects of quantitative and qualitative data analysis.
- Effectively analyze problems and identify solutions for data analysis.
- Demonstrate knowledge of statistical data analysis techniques utilized in teaching practices decision making.
- Apply quantitative modelling and data analysis techniques to solve real world business problems.

Topics to be covered:
- Introduction to data analysis, trends and research focus on data analysis
- Need of data analysis, Interpretation of data, importing and exporting data.
- Sampling methods for data analysis, filtering the data, normalization of data.
- Tools to analyze data, Statistical data analysis, Dimensions of data.
- Dimensionality reduction, Qualitative data analysis, quantitative data analysis.
- Linear and Non-linear Regression Models
- Classification and Clustering, Predictive analysis, Medical data processing, analysis and feature selection.
- Bottle necks in data analysis, Decision analysis.

Resource Persons:
Eminent faculty from IITs, Central Universities, ARCI, IICT and Senior Faculty from different departments of NIT Warangal, will deliver lectures, conduct workshop sessions and laboratory sessions.

Registration is open to:
Faculty members in all disciplines of Engineering, Science, Mathematics and working in the Institutions of higher education. Research Scholars, who have an aptitude to work in the areas of data analysis and desire to take up teaching profession as their career.

How to Apply:
Eligible candidates may apply by submitting the scanned copy of the filled in registration form along with the registration fee (attached with this mail/brochure) by email to workshopatnitw@gmail.com on or before 4th March, 2020.

Registration fee:

<table>
<thead>
<tr>
<th>Category</th>
<th>Local participants with lunch</th>
<th>Outstation Participants with accommodation breakfast, lunch, dinner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty</td>
<td>Rs. 750/-</td>
<td>Rs. 1500/-</td>
</tr>
<tr>
<td>Research Scholars</td>
<td>Rs. 400/-</td>
<td>Rs. 800/-</td>
</tr>
</tbody>
</table>

(Working lunch will be provided for all the participants on all the days of the workshop)

Note: Registration fee for Faculty and Research Scholars of SC/ST category is half of the amounts mentioned above, as applicable.

Registration fee may be sent in the form of a DD or remitted through On-line/NEFT to the Bank account given below. Local participants may also pay the registration fee in cash to the Coordinator of the workshop. Scanned copy of the DD / Proof of remittance of the requisite registration fee (with transaction number if online transaction) shall be sent as attachment to the Email given above.

Account Name | DIRECTOR, RESEARCH ACCOUNT, NIT WARANGAL
---|---
Account Number | 62266262236
Bank | State Bank of India (SBI)
Branch | NIT Warangal Campus
IFSC code | SBIN0020149

Confirmation of Participation:
On receipt of the registration form and fee remittance receipt, participants will be sent confirmation of their participation through email by 5th March 2020. As the programme is conducted in a workshop mode with hands-on sessions, the number of participants in the workshop is limited to 40. Candidates are advised to register early to avoid disappointment.
REGISTRATION FORM

Name: ____________________________________________________________
Date of Birth: ____________________________________________________________
Place of Birth: Village/Town/City: __________________________ District: __________________________
Tick as applicable (Rural / Urban): __________________________ State: __________________________
Aadhaar number: __________________________ Gender (Put a ✓ Mark) M F
Category (Tick as applicable): Open / OBC / SC / ST / PWD
Qualification: ____________________________________________________________
Designation: ____________________________________________________________
Organization: ____________________________________________________________
No. of Years of Teaching Experience: ____________________________________________________________
Address for Correspondence: ____________________________________________________________
________________________________________________________
________________________________________________________
Mobile(s): __________________________ E-mail(s): __________________________
Accommodation: ✓ Required ❏ Not Required
Payment Details (DD): Amount: __________________________ DD No.: __________________________
Date: __________________________ Bank: __________________________ Branch: __________________________

Declaration by the Applicant
If selected, I agree to abide by the rules and regulations of the workshop/training programme and shall attend all the sessions.
** Kindly go through the brochure before making payment

Date: __________________________ Signature of the Applicant

Recommended and Forwarded

Office Seal Signature of the Head of the Department / Institution