REPORT ON SEVEN DAYS FACULTY DEVELOPMENT PROGRAMME ON USE OF TOOLS AND TECHNIQUES

Organized

By

Central Project & Research Committee (CPRC), GNIOT

11-17 OCTOBER 2022

Central Project & Research Committee (CPRC), GNIOT organized the seven days faculty development program from 11th to 17th October 2022 in hybrid mode. This FDP had aim at equipping faculty members, researchers and industry person with skills and knowledge that are essential for inculcating project and research values among the students and guiding & monitoring their progress towards their career. Research skills are the backbone of academia and industry both and the excellent research skills can help the faculty members through their career.

The Program started at 10:00 am with Saraswati Vandana. There were 12 participants in offline mode and 100 participants in online mode from different colleges, universities, institutes and industries from all over India.

The dignitaries on the stage were Chief Guest Prof. (Dr.) Jayanthi Ranjan, Dean & Director, Sharda School of business, Sharda University, Greater Noida, Prof. (Dr.) Dhiraj Gupta, Director GNIOT (Patron), Dr. Shivani Dubey, Convener, Dr. Rajeev Kumar Co-Convener and Prof. Vikas Singhal, Program Coordinator.

Inaugural Session of the FDP

Welcome the Chief Guest

Welcoming remark for our chief guest in the FDP were given by Prof. (Dr.) Dhiraj Gupta, Director, GNIOT, which was followed by welcome to our chief guest Prof. (Dr.) Jayanthi Ranjan, Dean & Director, Sharda School of business, Sharda University, Greater Noida and congratulate the CPRC Team for taking the responsibility for conducting this seven days FDP to motivate and encourage participants to develop a connection between the teaching & learning methods and project based research development. After the Director Sir speech, Dr. Shivani Dubey, Convener of the program welcome to all the digniteries and participant for being a part of this program and also gave the surety that, this program would be more beneficial for all the participants in concerned of research execution in their study and teaching profession.

Prof. (Dr.) Dhiraj Gupta, Director   **Dr. Shivani Dubey, Convener**

Thereafter, The program progressed with the inaugural lecture at 10:30 am by Prof. (Dr.) Jayanthi Ranjan in which she mainly focused on the adopting the research in our profession and create honesty to make the research at higher level for the personal growth.

Prof. (Dr.) Jayanthi Ranjan, Chief Guest

Opening remark for the FDP was given by Prof. Vikas Singhal, Program Coordinator, who presented the brief introduction of the program for all seven days. He also presented the schedule of FDP for seven days and profiles of all the speaker session wise and day wise.

Prof. Vikas Singhal, Program Coordinator

Date wise brief Report for each of the five days FDP program is given below:

Day1: 11-10-2022

Session 1

Therefore after tea break the first session started with welcome of Dr. Sunayana Jain, Scrum Mater, talked about research methodology and highlighted of the accelerator based research and its significance over conventional techniques. She also shared her views regarding patience, hard work & perseverance required for undertaking research. She also focused a few very important aspects to be considered during research. She gave an idea about reasoning i.e. induction & deduction, hypothesis, variables, etc.

Dr. Sunayan Jain, Scrum Master Agent

Session 2

After the lunch, Dr. Varun Saxena, Assisstant Professor, Jawaharlal Nehru University, Delhi, talked about the importance of advanced tools and techniques for wring a reputed research paper and how can the author select the higher indexing journal for paper publication. He tried to clear doubts regarding LR i.e. how to start LR, which articles to consider, how to cover it in a thesis, different styles of citations, etc. He also focused on steps to be followed in the formulation of a research problem with a few practical examples & covered what to consider in selecting a research proble

Dr. Varun Saxena, JNU, Delhi

Day2: 12-10-2022

Session 1

The second day started off with the lecture of Dr. Sachin Taran, Assisstant Professor from Delhi Technical Unversity, Delhi. His talk was based on wireless technology and sensor optimization research which helps to show that how advanced level of equation for developing the wireless device and how it can be helpful for different equipments used in our life style. He tried to differentiate exploratory design with conclusive one. The objective of the exploratory study is to search/ explore & to provide an understanding of the problem at hand and give valuable insights. He explained that it cannot be used for generalization purposes, and thus, can't be effective for decision making. Participants discussed over various aspects with the speaker and the discussion continued during the lunch break.

Dr. Sachin Taran , DTU, Delhi

Session 2

After the lunch, Dr. Varun Saxena, Assisstant Professor, Jawaharlal Nehru University, Delhi, again presented how the simple open source software can design a systematic research paper without plag. He also highlighted key repetitive & general questions asked during Ph.D. Defense in addition to more specific doubts with examples. He shared the importance of Preparation, Practice, and Skills development and performance rehearsal in defending Viva. He also explained how to frame & conduct a conclusive research design.

Dr. Varun Saxena, JNU, Delhi

Day3: 13-10-2022

Session 1

The third day started off with the lecture of Prof. (Dr.) Nihar Ranjan Roy, Professor, Sharda University. delivered a talk on popular research based authoring tools and their efficient usage (equation numbering, citation & cross referencing, referencing, captioning, footnote, document layouts) using Microsoft word and latex. Referencing was demonstrated using Ms Word, JabRef, and BibTex. It also included demo of supporting tools for graphing & plotting (matlab), drawing (inkscape and draw.io), and plagiarism tools (turnitin).Last phase of the session include demo of symbolic mathematic tool in matlab, some effective tips on plotting. Due to shortage of time, What couldnot be covered was; demo on ns2 and Google colab. The Discussion with participants also included commercial available softwares and their open source counterparts.

Prof. (Dr.) Nihar Ranjan Roy, Sharda University

Session 2

Therefore after lunch break the session started with welcome of, Prof. (Dr.) Ambuj Agrawal, Professor, Sharda University. He talked about research based software and methodologies and its importance for designing the good quality paper to get the higher index in reputed journal or conference. He started with an example posing a sampling issue. He covered various types of designs relating to sampling issues & how to handle those. . Hands-on experience in a lab equipped with pre-installed SPSS was provided to participants. They practiced running t-test, ANOVA, regression & multivariate analysis on SPSS software.

Prof. (Dr.) Ambuj Agrawal, Sharda University

Day4: 14-10-2022

Session 1

The fourth day started off with the lecture of Dr. Shivani Jain, Data Analyst, AICTE Delhi. She oriented participants to basics of Econometrics, for which objectives it could be used & introduced Software Eviews used for the analysis of Economic data by a technical round of session. She also covered basics of scale development & steps for designing better measures. She stressed the importance of literature review, Focus group, and Expert interview in scale development. The session covered how reliability & validity of the developed scale could be checked.

Dr. Shivani Jain, AICTE Delhi

Session 2

Therefore after lunch break the session started with welcome of, Dr. Harikesh Singh, from JSSATE, Noida. He talked about research based software and methodologies and its importance for designing the good quality paper to get the higher index in reputed journal or conference. He discussed how to prepare a document with sections, subsections, sub subsections, paragraph, title, author, figures, equations, lists, tables and references.

Dr. Harikesh Singh, JSSATE, Noida

Day5: 15-10-2022

Session 1

At the last day of FDP, in first session, Ms. Madhu Bajpai, CEO, RIMUS Technologies, Noida presented important of tools and techniques for protecting secret data with higer authentication by using cryptographical methods. She also stated that malware and ransomware are the major threats for the devices. Malware is the cyber attack that misplaces the files, personal information from the laptop while ransomware can be considered as a data kidnapping that locks down the laptop and asks for the bribe in the form of bit coins to recover all the data. She also explained cyber crimes by giving some examples like bank frauds, attack of 26/11, blackmailing, destroying someone's personal integrity.

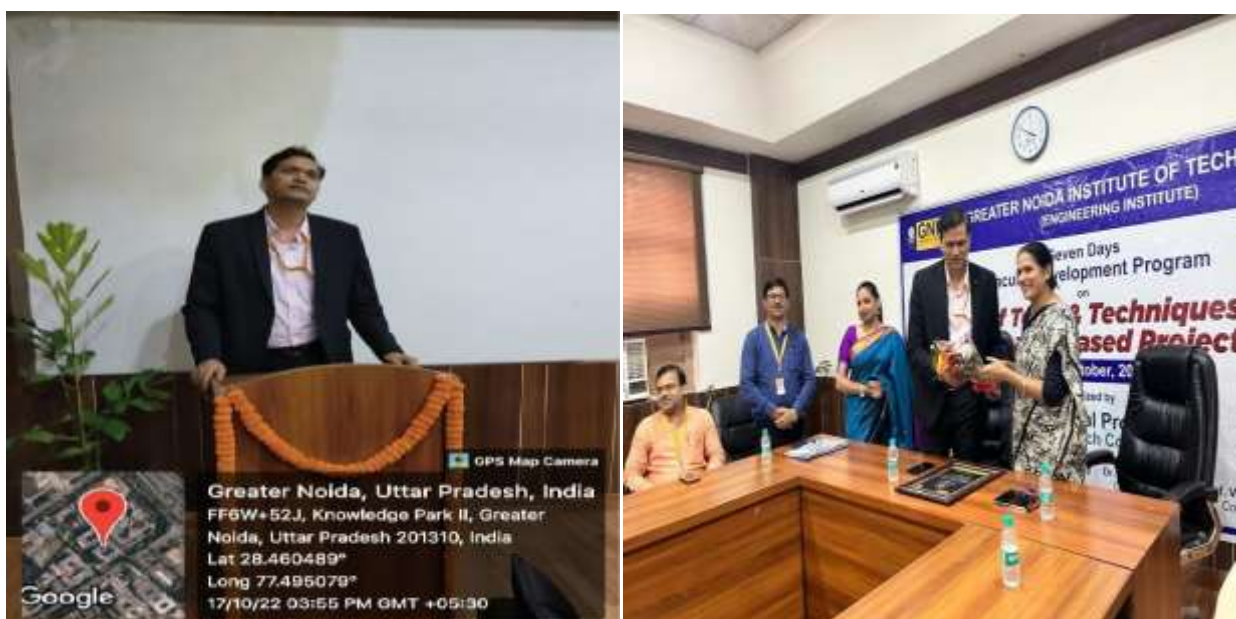**Ms. Madhu Bajpai, CEO, RIMUS Technologies, Noida**

Valedictory & Certificate Distribution at the concluding session

In the second session, Prof. (Dr.) Jayanthi Ranjan presented the way of improvement teaching and learning methodologies by adopting research process implementation and execution.

The Chief Guest Prof. (Dr.) Jayanthi Ranjan has delivered valedictory address. She highlighted the essence and importance of research based teaching and learning for the faculty members. She also appreciated the efforts of faculty members and participants for organizing and attending the FDP that reflected the hunger for knowledge, as Academicians.

In the valedictory function, Prof. (Dr.) Dhiraj Gupta presided over the function. In his address, he welcomes all the Resource Person along with all the faculty members, participants from within and outside. It was emphasized by the Director, the need for changing the habit and inculcating the aspiration for learning to change the system as a lifelong process which can be very well understood through the importance of research based learning and teaching.

In conclusion of the FDP, the Valedictory Session took place in which Dr. Rajiv Kumar proposed the Vote of Thanks. In his address, Dr. Rajeev Kumar thanked Prof.(Dr.) Jayanthi Ranjan for motivating all the faculty members to adopt the valuable FDP that helped to gain new insights for writing and developing a case study in workshop mode. He also thanked Prof. (Dr.) Dhiraj Gupta, Director, GNIOT Dean, HODs, organizing team and all other participants for attending the FDP and making it a success.

Certificate Distribution

Group Photograph