

Faculty Development Program
on
**Machine Intelligence for Information
Retrieval (MIIR)**
Nov 04-08, 2020



Organized by
National Institute of Technology
Kurukshetra



Sponsored by
AICTE Training & Learning
(ATAL) Academy

Preamble: The field of information integrates various academic disciplines and practice-based perspectives centered on "the collection, organization, storage, retrieval, interpretation, transformation, and utilization of information". The field of information retrieval went through its first significant paradigm-shift in the 1980s, changing from a system orientation focus to a user-centered focus. Following this shift, a new paradigm emerged to design systems as information ecologies that connect people, information, technology, and their practices in the search context.

More importantly, such a shift embraces situational relevance and contextual factors, social responsibility, action research, and community engagement. The shift in re-cent years presents an integration of impact/outcome in the theory-practice discourse., to integrate the relevance of information research moving forward into the future and assist to make a difference in the lives of people immersed in a global, networked information society.

The FDP aims at combining research from the fields of Machine Intelligence (MI) and information retrieval (IR), placing an emphasis on Human involvement in search activities.

In the pursuance of vision of AICTE ATAL academy, this FDP could offers multiple milestones through delivering theoretical knowledge & system design of Indian and Global perspective.

FDP Objectives:

- To revisit the paradigms of Data & Information retrieval.
- To explore different aspects on developing User Centric Information Retrieval, and Applications of MI techniques to information retrieval needs in specific domains.
- To understand, the modelling of Exploitation-Exploration tradeoffs, Relevance aspects, (Pre-search to In-search), and Machine Learning Techniques.
- To experience the NLP, Classification, Clustering, etc for IR.
- To discuss the Contemporary Challenges & Issues: Interactive IR, Modelling Contextual Factors, Social Intelligence, etc.

#Topics: Understanding MI & IR, Paradigm of IR, User study relevant to IR, Modelling and Delivery of MI for User Centric IR, Design and Development of Modern IR Ecosystem, Pedagogical framework for MI & IR, Context-aware Search, Best Practices in Implementing ML for IR.

#Pedagogy: Participants presented interfaces (including mockups, prototypes, and other early-stage designs), research results from user studies of interfaces, and system demonstrations related to the intersection of Machine Intelligence (MI) & Information Retrieval (IR). The intent of the event was not primarily archival publication, but rather to provide a forum to build community and to stimulate discussion, new insight, and experimentation on search interface design.

#Who can participate: Faculty Members, Industry Training Professionals, Research Scholar, etc.

Our Experts

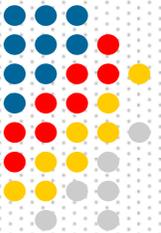
- **Prof. Jayant Harista**
IISc. Bangalore, India
- **Prof. TV Vijay Kumar**
SC&SS, JNU, New Delhi, India
- **Dr. Mukesh Mohania**
IBM India, India
- **Lipika Dey**
Innovation Lab, TCS, India
- **Arnab Chatterjee**
Scientist, Innovation Lab, TCS, India
- **Prof. Srikanta Bedathur**
IIT Delhi, New Delhi, India
- **Dr. Ramanathan Subramanian**
IIT Ropar, Punjab, India
- **Dr. Kalidas Yeturu**
IIT Tirupati, AP, India
- **Dr. Sonali Agarwal**
IIIT Allahabad, UP, India

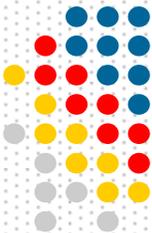
FDP Registration

- There is **no registration fee**.
- The e-certificate will be provided after successful completion of FDP.
- The participants can register as per the specified process of **AICTE ATAL Academy** (see in next page)

Last date of FDP Registration

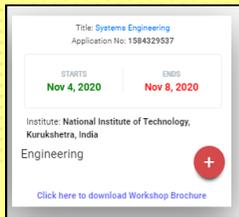
02 Nov 2020.





Registration Process

- [1] Open the portal with link
<https://atalacademy.aicte-india.org/login>
- [2] Fill the form of [Signup](#)
- [3] After [Login](#), go in 'Workshops Tab'
- [4] To filter the 'FDP', [Select](#) mentioned
State-> [Haryana](#)
Month-> [November](#)
Thrust Area-> [Engineering](#)
Mode-> [online](#)
- [5] The FDP details are given as below
[Application No: [1584329537](#)], Now
Click on '+'



Organizing Team

[Patron](#)

Dr. Satish Kumar

Director, NIT Kurukshetra, India

[Convener](#)

Prof. Mayank Dave

HOD, Computer Engg. Dept., NIT Kurukshetra

[Coordinator](#)

Dr. Vikram Singh

Comp. Engg. Dept., NIT Kurukshetra, India

Contact no.: 88160 86589

Email: viks@nitkkr.ac.in



About AICTE Training and Learning (ATAL) Academy

Vision: To empower faculty and achieve goals of Higher Education such as access, equity and quality.

Objective: To Plan and help in imparting quality technical education in the country and to support technical institutions fostering research, innovation and entrepreneurship through training in various emerging areas.

AICTE is committed for development of quality technical education in the country by initiating various schemes launched by Govt. of India, Ministry of Human Resource Development e.g. SWAYAM, MOOCs, Start-up Initiatives, Prime Minister Kaushal Vikas Yojana, Sansad Adarsh Gram Yojana (SAGY), Swachh Bharat/ Unnat Bharat Abhiyan, Yoga Activities etc. Council understand that there is a need of the day to train the young generation in skill sector and having faculty & technicians to be trained in their respective disciplines. It was felt that Training with latest tools and technologies is vital to keeping an institute competitive and more productive. Training is required for increasing the knowledge and skills of students to make them more employable to acquire global competencies. It also transforms them to harmonize with society and most importantly to make them a good citizen of the country.

It is planned that AICTE Training And Learning (ATAL) Academy will conduct series of Training Program in various thrust areas in all the four academies.



About National Institute of Technology, Kurukshetra

National Institute of Technology, Kurukshetra, one of the 31 NITs in the country, is a premier center of learning and research in various disciplines of Engineering and Management. It trains and develops high caliber professionals to serve not only the country but also the world at large. Established in 1963 as an REC, the college was elevated to a National Institute with Deemed University status in June 2002. The Institute has made rapid strides in expanding and upgrading facilities, enhancing the quality of education and strengthening the linkage with industry. The Institute has B.Tech, M.Tech, MBA and MCA Courses in various disciplines. Institute also offers excellent facilities for advanced research in the emerging areas of Science and Technology leading to Ph.D. degree.

The institute has well qualified and dedicated faculty along with finest supporting staff, laboratories and other infrastructure. The syllabus and the curriculum are constantly being updated to meet the growing demands and need of the day in different areas of technology. The infrastructure is geared to enable the Institute to turn out technical personnel of a high quality.