



**HANSRAJ COLLEGE**  
— University of Delhi —



**Mahatma Hansraj Faculty Development Centre  
(MHRFDC)**

**HANSRAJ COLLEGE**

**Faculty Development Programme**  
On  
*Challenges before the Academia*  
*in the era of*  
*Gadgets, E-communication and Artificial Intelligence*  
(December 15 – 28, 2018)

### **The Hansraj College**

Hansraj College is one of the largest constituent colleges of University of Delhi. The college has been ranked as one of the top five colleges for science, arts and commerce several times in the last decade. The faculty and the students of the college have contributed immensely to the field of academics, sports and cultural activities.

### **About MHRFDC**

Mahatma Hansraj Faculty Development Centre has been established at the Hansraj College under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) which emphasizes the need to change the role of a teacher from mere disseminator of information and knowledge to one who advances frontiers of existing knowledge by actively developing and creating new insights into diverse social and physical phenomena.



### **MHRFDC Team**

Chairperson : Dr Rama  
Co-ordinator : Dr. Rakesh Batra  
Deputy Co-ordinator : Dr. Sneha Suri

Board of Directors:  
Dr. Preeti Dharmarha  
Ms. Alka Kakkar  
Dr. Krishan Sachdeva

## About the programme

The modern world is entirely different from what it used to be half a century ago. In today's life style, everyone, be it a child or an old person, is constantly using electronic gadgets in some form. Almost every human activity, such as banking, shopping, entertainment and teaching-learning makes use of new high-tech electronic machines mainly to save time and to improve the quality of life.

Although there are several positive impacts of this manifold dependence on electronic gadgets, this exponential growth of e-portal and mobile application based services, has imposed some serious multidimensional challenges before the society which is now looking up for answers from the academia. These challenges include,

- Maintaining the security of electronics communication systems
- Protecting the integrity of networks and data from unauthorized access
- Protecting the privacy of an individual
- Preventing the frauds in banking, corporate and e-commerce sectors
- Delivering the concerns to common man in easy and effective ways
- Observe the behavioral changes caused by the addictive use of e-contents
- Studying the impact of entry of giants in each sector on the economy and the possible balance that is inclusive and allows medium and small scale industries to survive
- Prediction of the possible threats to the futuristic society due to increased usage of artificial intelligence.

## Modules

The FDP has six modules, each module consists of 6 sessions. The modules focus on the following themes:

**1. Aspects of Cyber security** – Meaning of an Internet threat, types of threats, Integrity, Confidentiality and Authenticity of communications over Internet.

**2. Mathematical Aspects of Network Security** – Basic Number Theory and Modern Cryptography.

**3. Challenges to Cyber Security and Cyber crimes** – Phishing, SQL Injection Attack, Scripting Attack, Man in the Middle Attack, Internet banking frauds, Credit/Debit card frauds, Frauds through E-mails, Spying mobile apps, Other Cyber crimes.

**4. Economic Aspects of E-Commerce** – Unfair trade practices by e-commerce giants, Long term impact of oppression of medium and small scale players.

**5. Psychological effects of Gadgets** – Internet, Mobile and Gadget addiction, behavioral changes in adults and kids due to increased gadget usage, suicide games like Blue Whale and their psychoanalysis.

**6. Social Impacts of Artificial Intelligence** – Dependence on artificial intelligence, Machines replacing human, Driver-less Metro engines and Driver-less cab project of Tesla and Uber, AI based assistants replacing humans (Amazon and Google's projects), Impact on employment, Impact on Social Justice.

## Registration Details

\* Pre-registration to the FDP is through online mode only.

\* Interested participants are requested to fill the online pre-registration form available at the following link latest by Dec 10, 2018.

<http://bit.ly/mhrfdc-fdp05>

\* There is no registration fee for the programme.

\* Selected participants shall be intimated latest by Dec 12, 2018.

## Organizing Committee

CO-ORDINATOR : DR. ARVIND

CONVENER : DR. MUKUND M. MISHRA

MEMBERS :

1. DR. RAKESH BATRA
2. DR. LOKESH CHANDRA MISHRA
3. DR. CHETANA JAIN
4. DR. BHARTI
5. MR. MAHENDRA RAM

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