



AGNEL INSTITUTE OF TECHNOLOGY AND DESIGN  
Assagao, Goa – 403 507



Department of Computer Engineering  
jointly with  
ACCESS – Association for Confluence of  
Computer Engineering Students and Senators



## Seminar on “Artificial Intelligence”

By Dr. Surendra Kumar



A talk for the Students of 5th Semester of the Department Computer Engineering was conducted on 19<sup>th</sup> August 2016 on “Artificial Intelligence techniques and applications” by Dr. Surendra Kumar, Former Senior Scientist, Bhabha Atomic Research Center (BARC).

The session started off by a beautiful quote which said **“GOD made men, Man-made machines. What Machines are going to make? --- ONLY GOD knows.”**

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In his talk he said, Artificial intelligence had its early beginnings way back in 1943 and with the years passing by a lot of work was done from rule based systems and the invention of LISP in the year 1958, to Major advances in Machine Learning algorithms and applications, Natural Language processing, multi-agent systems, robotics, Neural networks, development of expert systems and a lot more.

He also said that the intelligent systems could play an important part in the regular chores of our day to day life with automation in various sectors like the post office, banks, web, electronics, computer games etc.



One needs to have a good understanding of psychology and cognitive science in order to design the intelligent systems and these systems should be able to “Think Humanly, Act Humanly, think and act rationally.”

He concluded by summarizing Artificial Intelligence (AI) as a branch of Computer Science that aims to create Intelligent Learning Machines which act like Human Beings. It is the implementation of human like behavior in Machines, Computer Systems / Expert Systems.

## Brief Profile of the Resource Person

*Dr. Surendra Kumar*

- Formerly Senior Scientist Bhabha Atomic Research Centre (BARC),
- Visiting Scientist, Hahn-Meitner-Institute Berlin, Germany,
- Distinguished Professor & Professor-in-Charge Sharda University,
- Executive Director NIET,
- Advisor Selaqui Academy of higher Education, Dehradun

### Education & Development

- He did his Master's Degree with specialization in Electronics from Agra University.
- He completed one year special Atomic Energy Orientation training in Nuclear Technology at BARC Training School.
- He completed his Ph.D. from University of Mumbai (Ph.D. Centre BARC).
- He then joined as scientist in Electronics Division, BARC, Trombay, Mumbai.

### Awards & Recognitions

- Dr. Surendra Kumar was awarded INDO-FRG Fellowship.
- Through INDO-FRG bilateral exchange program, he completed advance training in Electronics at HMI, Berlin and
- Received **Invention Notification** for the research work done by him during his stay at HMI Berlin, Germany.

### Academic Services

- Dr. Surendra Kumar is having a rich experience of establishing engineering institutions of high repute with proven success records.
- As a Founder Principal / Director he contributed effectively in establishing engineering institutions; Xavier Institute of Engineering, BVCOE, IGCE, SIET, ABES, GVAIET and TEC.
- At university level also he contributed a lot in education reforms as Member, Academic Council, GGSIP University, Delhi; Member, Board of Studies, University of Mumbai and Member, Board of Studies and Curriculum Development, Sharda University.

### Professional Affiliations

- Dr. Surendra Kumar is having professional affiliations to IEEE, ISTE, IETE, IPA & CSI (Founder Secretary, CSI, Navi Mumbai Chapter).
- He had been on panel of experts/examiners of DAE, DRDO, IIT ( B ), BITS Pilani, Mumbai University, Pune University, Shivaji University, GGSIP University, UPTU and Sharda University.



**Dr. SURENDRA KUMAR**

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