



ATHARVA EDUCATIONAL TRUST'S
ATHARVA COLLEGE OF ENGINEERING

(Approved by AICTE, Recognized by Government of Maharashtra
& Affiliated to University of Mumbai - Estd. 1999 - 2000)

Department of Electronics and Telecommunication

Report of Workshop

Key speakers' speech and topics covered by them in their sessions organized in one day workshop on "Innovations in Electronics and Communication Engineering"

Session 1: Dr. Abhay Wagh (Joint Director of Technical Education, Govt. of Maharashtra)

Time: 10:30 to 11:30 am

Topic covered: "Innovative trends in Electronics and Communication and its effect on Economy"

- Indian Economy (Agriculture, Service and Industrial sector)
- Countries specialization (Germany, Japan, US, China and India)
- India: 700 Universities, 3500 institutions, 2nd largest growing economy, 2nd largest exporters of softwares
- Focussed on: Higher end Education i.e. Research, Hardwork and Sincerity, Skill based Practical Engineers.

Session 2: Mr. Mallikarjuna sir (Senior Project Manager, Godrej)

Time: 12 to 1 pm

Topic covered: "Image processing and Video analytics"

- HDR mode, Video processing (H.263, MPEG4, H.264, H.265)
- Video Surveillance, HEVC, Ethernet
- Importance of Video Analytics, Problems faced till today
- Video Analytics, Emerging Issues

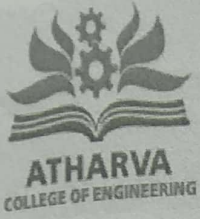
Session 3: Dr. Rakesh Saxena (Prof. in Electrical Engg Dept, SGSITS, Indore, M.P.)

Time: 2 to 3 pm

Topic covered: "Innovative trends of Electronics in Industrial Applications"

- High, Medium, Low and Nano scale power and their applications





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- Case Studies: Embedded system, Newspaper printing, VLSI, Mobiles- Operating systems, SMPS.
- Lifts: Constant and Variable speed, High Multi-storey, Crowd Maintenance Method
- Digital Substation, Wireless transmission, Smart Circuit Breakers.
- Static Relaying System, Micro-Inverter (Solar Systems), Wind power plants
- Switched Reluctance Motors, Illumination system.

Session 4: Mr. Yogesh Chavan (Senior Technical Officer, Air India)

Time: 3:30 to 4:30 pm

Topic covered: "Recent Trends in Tele-Communication and Navigation"

- Digital Flight Data Recorder System
- Aerodynamic blades, Pitching, Rolling and Yawing, Ailerons.
- Avionics (Communication, Navigation and Instruments), ACARS (Aircraft Communication Addressing and Reporting System)
- ELT (Emergency Located Transmitters) systems
- ADF (Automatic Direction Finding) system
- Weather Radar, Autopilot mode, ACE (Actuator Control Unit)
- EEC (Engine Electronic Control), Flight Data Recorder
- Aircraft Navigation Systems: ATC (Air Traffic Control) system.
- DME (Distance Measuring Equipment)
- Radio Altimeter system.



Head of Department: Prof. Jyoti Kolap

