



||Jai Sri Gurudev ||  
BGSKH Education Trust (R.) – A unit of Sri Adichunchanagiri Shikshana Trust(R.)  
**BGS College of Engineering and Technology**  
Mahalakshimpuram, West of Chord Road, Bengaluru-560086  
(Approved by AICTE, New Delhi and Affiliated to VTU, Belagavi)

## Department of Artificial Intelligence and Machine Learning Report on Present & Future Programs of CSIR- NAL

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| <b>Title of the Program</b>  |
| Present & Future Programs of CSIR-NAL –Possible roles of AI/ML   |
| <b>Venue</b>   |
| Auditorium, BGSCET, Bengaluru  |
| <b>Date &amp; Time</b>   |
| 25th October 2025, 11:00 AM  |
| <b>Participants</b> (attach attendance sheet)  |
| Faculty- Dr. Jalaja G (HOD, AI & ML), Department Faculty Members<br>Students- (1 <sup>st</sup> , 3 <sup>rd</sup> & 5 <sup>th</sup> Semester Students of all Departments)   |
| <b>Resource Person</b>   |
| Dr Manabendra M. De, Senior Principal Scientist in Systems Engineering Division.   |
| <b>Convenor/ Coordinators</b>  |
| Dr. Jalaja G<br>Ms. Vandana S Sardar<br>Mrs. Laxmi   |
| <b>Session Details</b>   |
| <p>The Department of Artificial Intelligence and Machine Learning, BGS College of Engineering and Technology, in association with SAMBHAV and IEEE Bangalore Section, had organized a <b>Technical Talk</b> on “<b>Present &amp; Future Programs of CSIR-NAL – Possible Roles of AI/ML</b>”.</p> <p>The session was delivered by <b>Dr. Manabendra M. De</b>, Senior Principal Scientist, Systems Engineering Division, <b>CSIR-NAL</b>, Bengaluru, and Honorary Assistant Professor at <b>AcSIR, New Delhi</b>.</p> <p>Dr. Manabendra shared valuable insights into the <b>ongoing and future programs at CSIR-NAL</b>, particularly focusing on how <b>Artificial Intelligence and Machine Learning</b> are revolutionizing research and development in aerospace engineering. He elaborated on the integration of AI/ML in predictive maintenance, design optimization, and autonomous systems, providing students a glimpse into real-world applications of AI in scientific research.</p> |

The programme focused on-projects on CSIR-NAL including Hansa-3, possible roles of AI/ML/DL and career opportunities in this field.

### **Takeaway**

- ☐ Students got an opportunity to gain great insights into CSIR's AI mission
- ☐ Future aerospace programs of CSIR-NAL including Hansa-3, SARAS Mk-II, Two-seater trainer aircraft.
- ☐ Project funding, possible roles of AI/ML/DL and career opportunities in this field.

**Poster** (to include IEEE, CSI and IIC logo)

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## BGS College of Engineering and Technology (BGSCET)

(Approved by AICTE, New Delhi and Affiliated to VTU, Belagavi)  
Adjacent to Mahalakshmi Metro Station, Mahalakshimpuram,  
West of Chord Road, Bengaluru - 560 086, Karnataka

Department of AI&ML in Association with SAMBHAV



25TH | OCTOBER

## Present & Future Programs of CSIR-NAL

- Possible roles of AI / ML



### Dr. Manabendra M. De

B.E in Mechanical Engineering, M.Tech with specialization in Turbo machines  
Senior Principal Scientist in Systems Engineering Division  
Honorary Asst. Professorship in (AcSIR), New Delhi.



11 : 00 AM

#### Co-Ordinators

Ms. Vandana S Sardar  
Mrs. Laxmi



BGSCET  
AUDITORIUM

#### Convenor

Dr. Jalaja G

#### Principal

Dr. Ravikumar G K

#### Director

Dr. Raju G T

Photos



“Fescilitation “



“Session”



“Audience”



“Team”

HOD

Principal