



INTEGRITY

MISSION

COMMITMENT

QUALITY

Industry-Academia partnership on Current Challenges in Aviation
(IAPCCA-2018) conducted on 6th October 2018
under aegis of AeSI Kanpur Branch

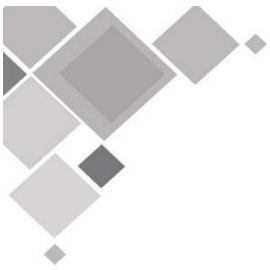


Inaugural Session

Dignitaries

- **Shri Rajiv Kumar CEO Accessories complex Lucknow
(Chief Guest)**
- **Shri Sajal Prakash Chairman AeSI Kanpur, GM HAL TAD Kanpur**
- **Shri Deepak Vaish, Navbharat Agency & Rep of JAD Aero**
- **Shri Jitendra Kumar RD, RDAQA**
- **Prof. Sudhir Kamle Dept. of Aerospace Engineering IIT Kanpur
Chief Convener of Workshop**
- **Shri Ajay Kumar Shrivastava Honorary Secretary, AGM(Design)**





Inaugural Session

Major event of Inaugural Function (9:30 to 11:45AM)

- **Registration of all dignitaries and Invitees**
- **Welcome of all dignitaries with Flower Bouquet**
- **Lightening of Lamp**
- **Address by Chairman AeSI Kanpur,**
- **Address by Regional Director Airworthiness Quality Assurance,**
- **Address by Prof. Sudhir Kamle IIT Kanpur**
- **Address by Sh. Deepak Vaish**
- **Address by Chief Guest Sh. Rajiv Kumar CEO-AC Lucknow**





Inaugural Session

Major event of Inaugural Function (9:30 to 11:45AM)

- **Mementoes to Dignitaries and Chief guest and Chairman, GM(TAD)**
- **Vote of thanks by Hony. Secretary, AGM (Design)**
- **Group Photographs**
- **High Tea**





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VALUES
SATISFACTION
TOTAL QUALITY
CONSCIOUSNESS
CREATIVITY
QUALITY





WELCOME DELEGATES

FOR

WORKSHOP ON

INDUSTRY-ACADEMIA PARTNERSHIP ON CURRENT CHALLENGES IN AVIATION

(Under the aegis of AeSI)

06 OCTOBER 2018

HAL, TAD KANPUR



WORKSHOP ON

"INDUSTRY-ACADEMIA PARTNERSHIP ON CURRENT CHALLENGES IN AVIATION"

06 OCTOBER 2018, HAL, TAD KANPUR

Organised by

AERONAUTICAL SOCIETY OF INDIA (AeSI)

(U.P. & BIHAR CHAPTER). KANPUR BRANCH







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(U.P. & BIHAR CHAPTER) KANPUR BRANCH



SHRI JITENDRA KUMAR

Prof. SUDHIR KAMLE

SHRI SAIBAL PRAKASH

SHRI DEEPAK





WELCOME DELEGATES

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WELCOME DELEGATES

06 OCTOBER 2018

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ADHIR KAMLE

SHRI RAJIV KUMAR

SHRI SAJAL PRAKASH



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U.P. H. CHAP. IN BENCH



WELCOME DELEGATES
FOR
INDUSTRY ACADEMY PARTNERSHIP ON "NEW" CHALLENGES IN AVIATION
"Share the wings of flight"
30 OCTOBER 2018
TAD KANPUR

Technical Session

Topic of presentations (11:45 AM to 2 PM)

- **Industry-Academia Partnership HAL Perspective by Shri Ajay Kumar Shrivastava AGM(Design)**
- **Industry-Academia Collaboration by Shri Sudhir Kamle, IIT Kanpur**
- **Co-site Interference Reduction using Decoupling Network by Miss Payel Mondal PhD Student with Guide Prof. A.R. Harish HOD Electrical Engineering IIT Kanpur and TARDC team**
- **Technological Challenges addressed in partnership with Academia by Shri Manish Tejwani DGM(Design), ASERDC Korwa**

Technical Session

Topic of presentations (11:45 AM to 2 PM)

- **MATLAB based Modelling & Simulation of Helicopter Flight Control Actuators by Shri Nishant Dua SM(D), ASERDC Lucknow**
- **Development of materials with improved mechanical and microwave absorption properties by Shri Abhishek Kumar Associate Prof. MNIT Allahabad**



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(U.P. & BIHAR CHAPTER), KANPUR BRANCH

HAL Today



INDUSTRIES

WORKSHOP ON
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06 OCTOBER 2018, HAL, TAD KANPUR
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AERONAUTICAL SOCIETY OF INDIA
(U.P. & BIHAR CHAPTER), KANPUR BRANCH

Workshop on Industry-Academia partnership on current challenges in aviation, HAL-TAD Kanpur

Co-site Interference Reduction using Decoupling Network

Payel Mondal, Debapratim Dhara, A R Harish
IIT Kanpur

Manoj Gupta
HAL-TAD, Kanpur

October 6, 2018

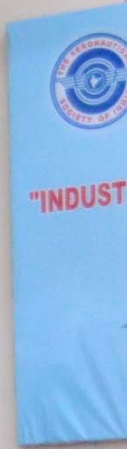
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Workshop on Industry-Academia partnership on current challenges in aviation, HAL-TAD Kanpur

THANK YOU

October 6, 2018





ASERDC Korwa

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MISSION	QUALITY

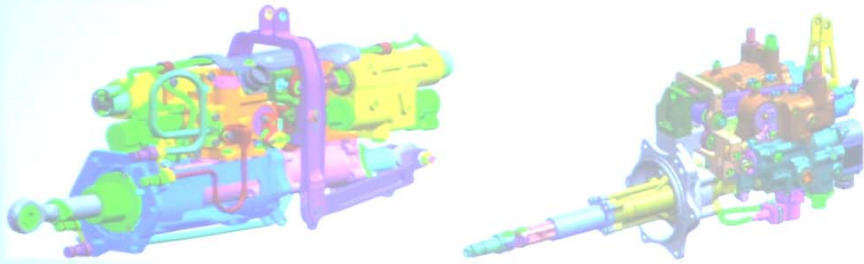
"Technological Challenges addressed in partnership with Academia"

06 Oct 2018

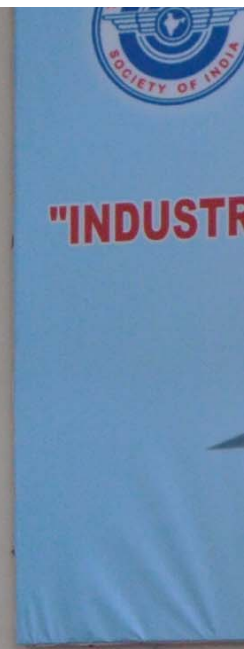
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MATLAB based Modelling & Simulation of Helicopter Flight Control Actuators



Simulation Conducted By: Nishant Dua, Sr Mgr (D), ASERDC
Under the Guidance of: Prof Bishakh Bhattacharya, IIT-K



About MNNIT

- Motilal Nehru National Institute of Technology Allahabad, Allahabad (MNNIT) previously known as Regional Engineering Colleges was established in the year 1961 as a joint enterprise of Government of India and Government of Uttar Pradesh.
- The Institute offers nine B.Tech., nineteen M.Tech. Degree Programmes (including part-time), MCA, MBA, M.Sc. (Mathematics and Scientific Computing) Master of Social work (M.S.W.) and Ph.D. programmes.







WORKSHOP ON

"INDUSTRY-ACADEMIA PARTNERSHIP ON CURRENT CHALLENGES IN AVIATION"

06 OCTOBER 2018, HAL, TAD KANPUR



Orga

AERONAUTICAL SOCIETY OF INDIA (AeSI)

U.P. & BIHAR CENTRE FOR RESEARCH AND TRAINING



Prof. SUDHIR KAMLE

SHRI RAJIV KUMAR



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INDUSTRY-ACADEMIA PARTNERSHIP

06 OCTOBER 2023

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AERONAUTICAL

(U.P. & BIHAR)





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Recommendations of Panel Discussions

The outcome of Panel Discussions (2PM to 4PM)

Panel Members

- **Shri Rajiv Kumar CEO-AC**
- **Shri Sajal Prakash GM(HAL TAD)**
- **Prof. Sudhir Kamle IIT Kanpur**
- **Shri Deepak Vaish Navbharat Agency**
- **Associate Prof. Abhishek Kumar MNIT Allahabad**

Moderator

- **Shri Ajay Kumar Shrivastava AGM(Design)**

Recommendations of Panel Discussions

The outcome of Panel Discussions (2PM to 4PM)

Recommendations

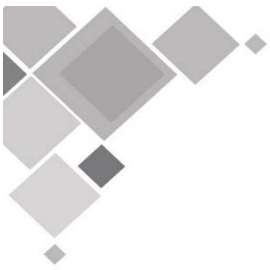
- Industry should categorise the projects as Short/Medium/Long term for partnership with Academia which will help to allocate teams (Scholars and Professor), technical resources and timelines of project.
- All technical projects should be made available by industry on digital library accessible to IITs, IISc, NITs to take-up the projects in related research areas of Professors/Scholars.
- Industry emphasized on timelines for projects. Deliverables of the projects should be divided in timelines for different milestones to review the progress of projects taken up by academia.
- Industry projects of B.Tech./B.E. students should be for a period of six months as part of their academic curriculum, to better orient them to the industry and to provide a reasonable time to make a worthwhile contribution.

Recommendations of Panel Discussions

The outcome of Panel Discussions (2PM to 4PM)

Recommendations

- Indigenisation Cells in industry may be renamed as Industry-academia partnership cell.
- Chairman AeSI Kanpur, GM(HAL TAD) introduced upcoming projects for participation by academia
 1. Engine replacement (Re-engining) of HS-748 aircraft
 2. Increase of MTOW of HAL Do-228 aircraft
 3. Cost Reduction of Do-228 aircraft (Development of alternate low cost systems/ Process/ Materials)
 4. Mission Management system for Do-228 a/c.
 5. Projects in different area towards development of Regional Transport Aircraft.

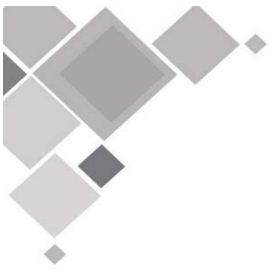


Invitees from Industry- Academia



- Invitees from various organisations and academic institute
- DMSRDE(DRDO), RCMA(DRDO), DGAQA, DGCA, Nav bharat Aero, Ailga Rubber, Total Precision, Indian Coast Guard, Indian Navy, Indian Air Force, S.N. Enterprises, IIT Kanpur, MNIT Allahabad, PSIT Kanpur, HAL Lucknow, Korwa and Kanpur.

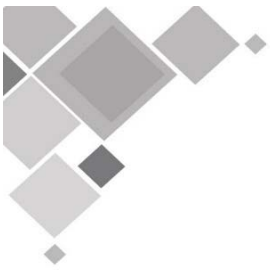




Contribution of Team Members

- Various arrangement responsibilities on the shoulders of HAL TAD Kanpur under able guidance of Sh. Sajal Prakash GM(TAD) Chairman AeSI Kanpur Branch and Sh. Ajay Kumar Shrivastava AGM(Design), Hony. Secretary AeSI Kanpur.
- Valuable contributions from the teams of Transport Aircraft Research and Design Centre , HR, Customer Service Department, Technical Services, GM Office, CEO Office, Security Department and COM Members of HAL TAD Kanpur.





Many Thanks from



Chairman and Honorary Secretary
AeSI Kanpur Branch

