



All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)
Nelson Mandela Marg, Vasant Kunj, New Delhi-110070 Website: www.aicte-india.org



AICTE TRAINING AND LEARNING (ATAL) ACADEMY, (ONLINE FDP)

Date: 4th September, 2020

F. No. 01-App No.1584174193/AICTE/ATAL-HQ/2020-21/

To
The Principal
Kongu Engineering College
Perundurai Railway Station Road, Thoppupalayam,
Perundurai 638 060
TAMIL NADU

Sub: Release of a sum of Rs 93,000 /- [Rupees Ninety three thousand only] for AICTE Training and Learning (ATAL) Academy programme Online FDP of Nine Thrust Areas and Other Emerging Areas.

Sir,

This is to convey the sanction of the Council for payment of **Rs. 93,000 /- (Rupees Ninety -Three Thousand Only)** for conduct of online **AICTE Training And Learning (ATAL) Academy Programme [Sustainability Engineering from 07.09.2020 to 11.09.2020]** to **(Kongu Engineering College, Perundurai Railway Station Road, Thoppupalayam,, Perundurai, TAMIL NADU)** under **AICTE Training And Learning (ATAL) Academy**.

This fund is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated, and also being communicated in this letter.

The instructions/guidelines to be followed by University/Institution

I. Release of funds and maintenance of accounts

- a. The University/College/Institute shall maintain proper accounts of the expenditure out of the grants, which shall be utilized only on approved items of expenditure.
- b. The cost for conducting per programme will be Rs.93,000/- as per detail given as under:

| | | | |
|----|---|------------|------------------|
| 1. | Honorarium for Director | Rs. | 10,000 /- |
| 2. | Honorarium to Co-ordinator Rs.2000/- per day x 5 days | Rs. | 10,000 /- |
| 3. | Honorarium for experts (<i>Rs. 3000 per session for total 14 session</i>) | Rs. | 42,000 /- |
| 4. | Provision for payment to Lab Attendant engaged during lab practices | Rs. | 1000 /- |
| 5. | Institutional charges | Rs. | 15,000 /- |
| 6. | Miscellaneous charges | Rs. | 15,000 /- |
| | TOTAL: | Rs. | 93,000 /- |

Programmes having permission to change amounts under different heads with overall ceiling of Rs 0.93 lakh being intact.

- c. The grant is subject to the adjustment on the basis of Utilization Certificate in the prescribed proforma to be submitted by the University/College/Institution.

Further, the accounts of the institute will be open for test check by the Council or Controller & Auditor General of India or any other officer designated by them.

II. Disbursement of funds to institutions

The full amount of the grant sanctioned will be released as an advance to the University/Institute through electronic transfer on the account of the University/Institute after submission of mandate form

III. Conduct of test and issuance of certificate

- A test shall be conducted by coordinator at the end of the program.
- The certificates shall be issued to those participants who have attended the program with minimum **80% of attendance** and scored **minimum 60% marks** in the test.

IV. Submission of documents by university/institution

- a. The following mandatory relevant documents are required to be submitted by the university/institution within one month of the completion of the program: -
 - (i) List of candidates who have successfully completed the program on the basis of the test conducted by Program Coordinator.
 - (ii) A program completion report along with photographs, videos, media report is to send after the completion of workshop along with the list of participants and Utilization Certificate, Expenditure Statement and feedback form etc. within one month of conduct of **AICTE Training and Learning (ATAL) Academy programme**.
- b. The amount of the grant shall be adjusted on submission of utilization certificate & detailed expenditure statement by University/Institution. On receipt of these documents, the total amount of financial assistance, admissible as per the norms, shall be worked out and grant-in-aid shall to adjust.


V. General Instructions

- a. **Maximum 200 participants** may be allowed to attend online FDP on a first come first serve basis however AICTE officials may be allowed to attend over and above 200 number. Coordinators are free to admit less number of participants depending on the feasibility.
- b. **You are requested to allow new participants and discourage participants who have already done one online ATAL FDP earlier.**
- c. A test has to be conducted (may be online) on the last day and those who score more than 60% will be termed as successful candidates. Those who have **attendance 80% or more** and also **score more than 60% in the test** will be issued a **digital certificate**.
- d. These **online sessions are to be recorded** as the facility is available on the software which is being used for online delivery of FDP. You are also requested to share recording of sessions with AICTE.
- e. **Eligibility for Participants:**
 - (i) The faculty members of the AICTE approved institutions, research scholars, PG, Scholars, participants from Government, Industry (Bureaucrats/ Technicians/ Participants from Industry etc.) and staff of host institutions.
 - (ii) Not more than 30% from Host Institution
- f. If programme is not conducted in the year 2020 only, there leased amount, along with interest accrued thereon, has to be returned back to AICTE.

- g. Any extra money required to complete the programme must be borne by the institute from their own resources but the quality of the activities should not be compromised.
- h. Any unavoidable circumstantial change in the Program with respect to name of Project Coordinator, and date for organizing online AICTE Training and Learning (ATAL) Programme would mandatorily require prior approval of the Council. All such requests should be addressed to ATAL Academy, in advance, recording the specific reasons for proposed changes, failing which the offer for the grant already issued would be treated as automatically withdrawn and the financial assistance released in favour of the beneficiary institution shall be refunded immediately to the Council.

This Sanction Order may be treated as Offer Letter for all purposes.

Yours Sincerely,


[M. SUNDARESAN]
REGIONAL OFFICER
AICTE, SRO, CHENNAI

Copy forwarded for information and necessary action to: -

1. Coordinator ATAL Programme
2. ATAL Academy Cell AICTE HQ
3. Guard File.

PM
4/9/2020

KONGU ENGINEERING COLLEGE, PERUNDURAI – 638060
UTILIZATION CERTIFICATE FOR THE FINANCIAL YEAR 2020-2021
AICTE Training and Learning Academy (Online FDP)

AICTE File No. : F.No.01-App.No.1584174193/AICTE/ATAL-HQ/2020-21

Name of Co-ordinator : Dr.V.HARIHARAN

Dates of the Programme : 07-09-2020 to 11-09-2020

Title of the ATAL Programme : Modern Techniques of Diagnosis and Prognosis of Rotating Machinery Faults

| Sl. No. | AICTE Sanction Order/Letter No. & Date under which grant was sanctioned | Amount (Rs.) | |
|---------|---|--------------|---|
| 1. | F.No.01-App.No.1584174193/AICTE/ATAL-HQ/2020-21, Dated 4 th September 2020 AICTE Training and Learning Academy (Online FDP) | 93000.00 | Certified that out of the grant-in-aid of Rs.93000/-(Ninety Three Thousand only) sanctioned by the AICTE during the financial year 2020-2021 in favour of Kongu Engineering College as per letter mentioned in the margin, Rs. 93000/- on account of unspent balance of previous year, Rs.NIL on account of other income / receipts, a sum of Rs.93000/- has been utilized for the purpose for which it was sanctioned and the balance of Rs. NIL remained unutilized at the end of the year. |

Certified that I have satisfied myself that the conditions on which the grant-in-aid was sanctioned have been duly fulfilled and that I have exercised the following checks to see that the money was actually utilized for the purpose for which it was sanctioned.

Kinds of checks exercised: -

Audited Annual Accounts of the Institute Receipt and Payment account
 Periodical Progress Reports.

(1). Name, Signature & Address of the Claimant/Awardee/Coordinator with seal **Dr. V. HARIHARAN M.E., Ph.D.,**
 Professor of Mechanical Engineering,
 Kongu Engineering College,
 Perundurai. Erode-638 052

(2). Signature of Chartered Accountant:

Name of Chartered Accountant:
 Membership No:
 Rubber stamp:
 Full Address:

Date: 17.10.20

UDIN: 20026721AAAAGS4863

C. VELUMANI, B.Sc., F.C.A.,
 Chartered Accountant
 33/1, Annamalai Layout,
 Perundurai Road, ERODE - 638 011.

(3). Signature of Head of the Institute:

Name & Designation of the Head of Institute:

Rubber stamp: **Dr. V. BALUSAMY**

Full Address: **PRINCIPAL**

Date: **KONGU ENGINEERING COLLEGE**

THOPPUPALAYAM (PO)

PERUNDURAI (TK) ERODE-638060

TAMILNADU, INDIA

(4). Signature of the Finance Officer/Accounts Officer:

Name of the Finance Officer/Accounts Officer:

(If it is Govt./Govt. Aided Institute)



**AICTE TEACHING AND LEARNING
FACULTY DEVELOPMENT
PROGRAMME**



**Under Thrust Area: Sustainability Engineering
On**

**Modern Techniques of Diagnosis and Prognosis of
Rotating Machinery Faults**

07-09-2020 to 11-09-2020

REPORT



AICTE TEACHING AND LEARNING ACADEMY, PUNE

Organized by


**DEPARTMENT OF MECHANICAL ENGINEERING
KONGU ENGINEERING COLLEGE
ERODE, TAMILNADU - 638060.**




AICTE Teaching and Learning sponsored 5 days Faculty Development Programme on “Modern Techniques of Diagnosis and Prognosis of Rotating Machinery Faults” was conducted from 7th to 11th September 2020 in which around 100 participants from different parts of the country participated.




The speakers for the 5-day workshop on “Modern Techniques of Diagnosis and Prognosis of Rotating Machinery Faults” were:

| | |
|---|--|
| Dr. V. Sugumaran, Professor/Mechanical Engineering, VIT, Chennai. | |
|  | Education <ul style="list-style-type: none"> PhD in Machine Learning approach to fault diagnosis of roller bearing at Amrita Vishwa Vidyapeetham , Coimbatore (2008) M. Tech. in Production Engineering and Technology from VTU (2004) B. E. in Mechanical Engineering, Bharathiar University (1998) Experience <ul style="list-style-type: none"> 18 years as a teaching faculty. Areas of proficiency are in applications of machine learning especially machine condition monitoring using tools like Artificial Neural Networks, Fuzzy logic, Data Mining and Support Vector Machines at VIT University, Chennai . 2 years in TataFones with expertise in planning, scheduling and monitoring sub-contractor quality. Developed and maintained quality records to meet the requirements of ISO-9001 Certification. No. of Patents filed: 20, |
| Date & Session | Title |
| 07-09-2020 & I | Machine Learning Approach to Fault Diagnosis |
| Mr.Rahul Kumar, Research Scholar, Dept. of Applied Mechanics, (Solid Group) Indian Institute of Technology Madras (IITM), Chennai. | |
|  | Education <ul style="list-style-type: none"> Rahul is currently a research scholar in the Dept. of Applied Mechanics, Indian Institute of Technology Madras. He is working under the supervision of Prof. Shaikh Faruque Ali and Prof. Sayan Gupta. Before joining IIT Madras for PhD, he has completed B. Tech in Mechanical Engineering with distinction from Cochin University of Science & Technology Kochi (Batch of 2015) Research interests are: Reduced Order Modeling Rotor Dynamics, Uncertainty Quantification |
| Date & Session | Title |
| 07-09-2020 & II | Stochastic Analysis of Bladed Disc System: Challenges and Solutions |

| | |
|---|---|
| Dr.S.Shankar, Professor/Mechatronics Engineering, Kongu Engineering College, Perundurai - 638 060. | |
|  | Education <ul style="list-style-type: none"> • PhD in Contact Mechanics at IIT Madras, Chennai (2008) • M. Tech. in Engineering Design from Bharathiar University (2002) • B. E. in Mechanical Engineering, Bharathiar University (2001) Experience: <ul style="list-style-type: none"> • 4 Years of Research experience in Contact Mechanics using FEA concepts • 2 Years of Industrial Experience in Structural Analysis using ANSYS • 10 Year Experience in Teaching at Kongu Engineering College, Erode, Tamilnadu |
| Date & Session | Title |
| 07-09-2020 & III | Finite Element Technique to Predict the Failure of Rotating Parts - Hip Prosthesis A Case Study. |
| Dr.R.Prakash, Assistant Professor/Department of Mechanical Engineering, NIT, Trichy. | |
|  | Education Ph.D in Applied Mechanics from IIT Madras, Chennai, 2015. M.E in Engineering Design from Anna University, Chennai, 2010. B.E in Mechanical Engineering from Anna University, Chennai, 2005. Experience Assistant Professor, National Institute of Technology, Tiruchirappalli, Tamil Nadu, Senior Assistant Professor, SASTRA Deemed to be University, Thanjavur, Postdoctoral Research Associate, Texas A&M University at Qatar, Doha, Qatar. Senior Assistant Professor, SASTRA Deemed to be University, Thanjavur, Faculty on Contract, National Institute of Technology, Puducherry, Karaikkal, India. |
| Date & Session | Title |
| 08-09-2020 & I | Condition Monitoring of Turbine Blade |
| Dr.M.Amarnath, Assistant Professor/Department of Mechanical Engineering, IIITDM, Jabalpur | |
|  | Education <ul style="list-style-type: none"> • Ph.D., in Fault Assessment in Spur gear and Helical gear using vibration and Tribological Analysis from IITM, Chennai (2008) • M. Tech in Maintenance Engineering, Visvesvaraya Technological University, Mysore. (2002) • B.E in Mechanical Engineering from National Institute of Engineering, University of Mysore, (1999) Experience <ul style="list-style-type: none"> • Visiting Research Fellow, Chiba University, Japan. • Assistant Professor, Indian Institute of Information Technology, Design & Manufacturing Jabalpur. (July 2007 to 29th June 2010) • Associate Professor, Indian Institute of Information Technology, Design & Manufacturing Jabalpur. (July 20010 to 29th Jan 2012) • Assistant Professor, Department of Electrical Engineering, Indian Institute of Technology Ropar, (30th Jan 2012 to till this date) |
| Date & Session | Title |

| | |
|--|---|
| 08-09-2020 & II | Introduction to Sensors and Signal processing techniques for condition monitoring of rotating machines |
| Dr. Albert Alexander, Professor/ Department of Electrical and Electronics Engineering, Kongu Engineering College, Perundurai -638060. | |
|  | <p>Education</p> <ul style="list-style-type: none"> • Postdoctoral Research Fellow from Northeastern University, Boston, MA, USA, 2017 • Ph.D. in Power Electronics for solar photovoltaic systems from Anna University, Chennai, (2014) • M. E., Power Electronics and Drives, Mepco Schlenk Engineering College, Sivakasi Tamil Nadu, India. (2007) <p>Experience</p> <ul style="list-style-type: none"> • 4 Years of Research experience in Multilevel Invertors at Kongu Engineering College, Erode, Tamil Nadu • 13 Year Experience in Teaching at Kongu Engineering College, Erode, Tamil Nadu |
| Date & Session | Title |
| 08-09-2020 & III | Motor Current Analysis |
| Mr. R Santhanam, Scientist "F", DRDL (DRDO), Hyderabad. | |
|  | <p>Education</p> <ul style="list-style-type: none"> • Pursuing PhD in Shape Memory Alloy at IIT Madras, Chennai. • M.E. in Compute Aided Design from Periyar University, Salem (2002) • B. E. in Mechanical Engineering, Bharathidasan University (2000) <p>Experience:</p> <ul style="list-style-type: none"> • Joined as Scientist B in Aerospace Structures Division, DRDL, DRDO, Hyderabad in 2002 • Presently Scientist F in Aerospace Structures Division, DRDL, DRDO, Hyderabad |
| Date & Session | Title |
| 09-09-2020 & I | Modal Analyses and Experimental Correlation |
| Dr. S.B.Kandagal, Principal Research Scientist, (Structures), Aerospace Engineering, IISc, Bangalore. | |
|  | <p>Education</p> <ul style="list-style-type: none"> • Ph.D, Indian Institute of Science (2005) • M.Tech, NITK, Suratkal (1992) • B.E, NITK, Suratkal (1989) <p>Experience</p> <ul style="list-style-type: none"> • Principal Research Scientist Structures in Aerospace Department, IISc. Bangalore. • He has more than 150 publications in various international journal and conferences. • He also has a patent on "form with displaceable vibratory panel". • He has guided 3 PhD students, 17 ME students and has worked in around 110 consultancy projects. |
| Date & Session | Title |
| 09-09-2020 & II | Vibration Measuring Instruments and Signal Processing for Different Applications |

| | |
|---|--|
| Dr.G.Rajeshkumar, Associate Professor//Department of Mechanical Engineering, PSG Institute of Technology and Applied Research, Coimbatore. | |
|  | Education <ul style="list-style-type: none"> B.E in Mechanical Engineering from Sri Ramakrishna Institute of Technology, Coimbatore in 2010 M.E Engineering Design From Anna University in 2012 with a Gold Medal. Ph.D. in Investigations on Development and Characterization of <i>Phoenix sp.</i> Fiber and its Epoxy Composites from Anna University, Chennai in 2017. Experience <ul style="list-style-type: none"> Associate Professor in the Department of Mechanical Engineering, PSG Institute of Technology and Applied Research, Coimbatore from 2017 to till now. Assitant Professor, in the Department of Mechanical Engineering at Kongu Engineering College, from 2012 to 2017 |
| Date & Session | Title |
| 09-09-2020 & III | Condition Monitoring of Composite Drive Shaft |
| Mr.M.Vivekanadhan, CEO, TryCAE Industrial Engineering, Visiting Faculty-NITT, Trichy. | |
|  | Education <ul style="list-style-type: none"> B.Tech. in Mechancial Engineering from SASTRA University, 2009 M.Tech. CAD/CAM From Anna University in 2015. Pursuing Ph.D. in CFBC Boiler/Energy from NIT , Trichy. Experience <ul style="list-style-type: none"> TryCAE Industrial Engineering Pvt. Ltd.CEO, September, 2016 to Till date Uttam Industrial Engg. Trichy, DGM Design (R&D)January, 2016 to August, 2016 Uttam Industrial Engg. Trichy, Senior Manager - Design & R&DJanuary, 2013 to December, 2015 Uttam Industrial Engg, Trichy, Manager – Design (Head) January, 2009 to December, 2012 |
| Date & Session | Title |
| 10-09-2020 & I | Energy Aspects in Fans and Blowers for Diagnosis |
| Dr.R.Thamilselvan, HOD/Department of Computer Applications, Kongu Engineering College, Perundurai. | |
|  | Education <ul style="list-style-type: none"> MCA from Bharathidasn University, during 2000 M.E., in Computer Scienc and Engineering, From Anna University, 2005 Ph.D., From Ann University , 2013 Experience <ul style="list-style-type: none"> 20 years of Teaching as a Professor in Computer Applications at Kongu Engineering College, Erode, Tamil Nadu |
| Date & Session | Title |
| 10-09-2020 & II | Yoga and Human Values |

| | |
|--|--|
| Dr. M.Yuvaraja, Associate Professor/Department of Mechanical Engineering, PSG College of Tech., Coimbatore. | |
|  | Education <ul style="list-style-type: none"> • B.E in Mechanical Engineering , Bharathiar University, 2003 • M.E., CAD/CAM from Anna University, 2005 • Ph.D., From Ann University , 2014 Experience <ul style="list-style-type: none"> • 16 years of Associate professor in Mechanical Engineering Department , PSG college of Technology Coimbatore , Tamil Nadu |
| Date & Session | Title |
| 10-09-2020 & III | Vibration Analysis of Rotating Machinery |
| Dr.S.Devendran, Associate Professor/ Department of Mechanical Engineering, VIT, Vellore. | |
|  | Education <ul style="list-style-type: none"> • B.E in Mechanical Engineering , Government College of Engineering, Salem, 2003 • M.E., Engineering Design from Anna University, 2007 • Ph.D., Vibration Based Fault Diagnosis of Bearing and Gear Using Artificial Intelligent Techniques from VIT University, Vellore, 2016 Experience <ul style="list-style-type: none"> • 4.5 years as a Production Quality Engineer at Kumar Industrial works, Salem, Tamilnadu, India. • 2.5 years as an Mechanical Design Engineer at Prima Automation Systems Private Limited, Chennai • 9.5 years Associate professor in Mechanical Engineering Department , VIT University, Vellore , Tamil Nadu, India. |
| Date & Session | Title |
| 11-09-2020 & I | Bearing Vibration using Algorithms and Research focus |
| Dr. Hemantha Kumar, Associate Professor/ Department of Mechanical Engineering, NIT, Suratkal. | |
|  | Education <ul style="list-style-type: none"> • Ph.D - IIT Madras (2009) • M.Tech - VTU (2003) • B.E – in Mechanical Engineering Mysore University (2000) Experience <ul style="list-style-type: none"> • 8 years Associate professor in Mechanical Engineering Department , NIT, Suratkal , Karnataka, India. |
| Date & Session | Title |
| 11-09-2020 & II | Fault Diagnosis Systems -Overview |

The schedule of the workshop was as below:

**ATAL workshop on Modern Techniques of Diagnosis and Prognosis
of Rotating Machinery Faults**

2020

| Kongu Engineering College, Perundurai, Erode -638060. Department of Mechanical Engineering AICTE Training and Learning (ATAL) , New Delhi Sponsored Five days Faculty Development Programme on “Modern Techniques of Diagnosis and Prognosis of Rotating Machinery Faults” | | | | |
|---|--|--|-------------|--|
| Date | Session I 9.30 am to 11.00 am | Session II 11. 00 am to 12.00 Noon | Lunch Brake | Session III 2.00 pm to 3.30 pm |
| 07-09-20 | Machine Learning Approach to Fault Diagnosis Dr. V. Sugumaran Professor/Mechanical Engineering, VIT, Chennai. | Stochastic Analysis of Bladed Disc System: Chanlages and Solutions Mr.Rahul Kumar Research Scholar Dept. of Applied Mechanics Indian Institute of Tecnology (MADRAS) | | Finite Element Technique to Predict the Failure of Rotating Parts - Hip Prosthesis A Case Study Dr.S.Shankr, Professor/Mechatronics Engineering Kongu Engineering College, Perundurai |
| 08-09-20 | Condition Monitoring of Turbine Blade Dr.R.Prakash, Assistant Professor/Department of Mechanical Engineering, NIT, Trichy. | Introduction to Sensors and Signal processing techniques for condition monitoring of rotating machines Dr.M.Amarnath Assistant Professor/Department of Mechanical Engineering IIITDM, Jabalpur | | Motor Current Analysis Dr.Albert Alexander Professor/ Department of Electrical and Electronics Engineering Kongu Engineering College, Perundurai |
| 09-09-20 | Modal Analyses and Experimental Correlation Dr.R Santhanam, Scientist "F" DRDL (DRDO), Hyderabad. | Vibration Measuring Instruments and Signal Processing for Different Applications Dr. S.B.Kandagal, Principal Research Scientist, (Structures) Aerospace Engineering IISc, Bangalore. | | Condition Monitoring of Composite Drive Shaft Dr.G.Rajeshkumar Associate Professor//Department of Mechanical Engineering, PSG Institute of Technology and Applied Research, Coimbatore. |
| 10-09-20 | Energy Aspects in Fans and Blowers for Diagnosis Mr.M.Vivekanadhan CEO, TryCAE Industrial Engineering, Visiting Faculty-NITT Trichy. | Yoga and Human Values Dr.R.Thamilselvan HOD/Department of Computer Applications, Kongu Engineering College, Perundurai. | | Vibration Analysis of Rotating Machinery Dr. M.Yuvaraja Associate Professor//Department of Mechanical Engineering, PSG College of Tech. Coimbatore. |
| 11-09-20 | Bearing Vibration using Algorithms and Research focus Dr.S.Devendran Associate Professor/ Department of Mechanical Engineering, VIT, Vellore. | Fault Diagnosis Systems -Overview Dr. Hemantha Kumar Associate Professor/ Department of Mechanical Engineering, NIT, Suratkal. | | Online test and Valedictory |

AICTE Sponsored ATAL Faculty Development Programme on Modern Techniques of Diagnosis and Prognosis of Rotating Machinery Faults was inaugurated on 07-09-2020 by our beloved Principal Dr V. Balusamy, followed by the introduction of the course and its importance by Coordinator Dr V. Hariharan. 79 external participants registered this programme from various institutions across the country and 21 internal participants from Mechanical and Mechatronics Engineering.

The first day, after the inauguration Dr V.Sugumaran, Professor of Mechanical Engineering, Vellore Institute of Technology, Chennai, delivered a lecture on Machine Learning Approach to Fault Diagnosis. Participants are attended the common Inaugural function arranged by AICTE. The Second session was handled by Mr Rahul Kumar, Research Scholar of IIT Madras, Chennai, delivered a lecture on Stochastic Analysis of Bladed Disc System: Challenges and Solutions. Afternoon the session was handled by the Dr S.Shankar, Professor of Mechatronics Engineering, Kongu Engineering College delivered a lecture Finite Element Technique to Predict the Failure of Rotating Parts - Hip Prosthesis A Case Study.

The second day the morning session Dr R.Prakash, Assistant Professor, Mechanical Engineering, National Institute of Technology, Trichy, delivered a lecture on Condition Monitoring of Turbine Blade. Followed by Dr M.Amarnath, Assistant Professor/Mechanical Engineering, IIITDM , Jabalpur Given a talk on Introduction to Sensors and Signal processing techniques for condition monitoring of rotating machines. Second day afternoon session Dr A.Albert Alexander, Professor, Electrical and Electronics Engineering, Kongu Engineering College handled the Topic Motor Current analysis.

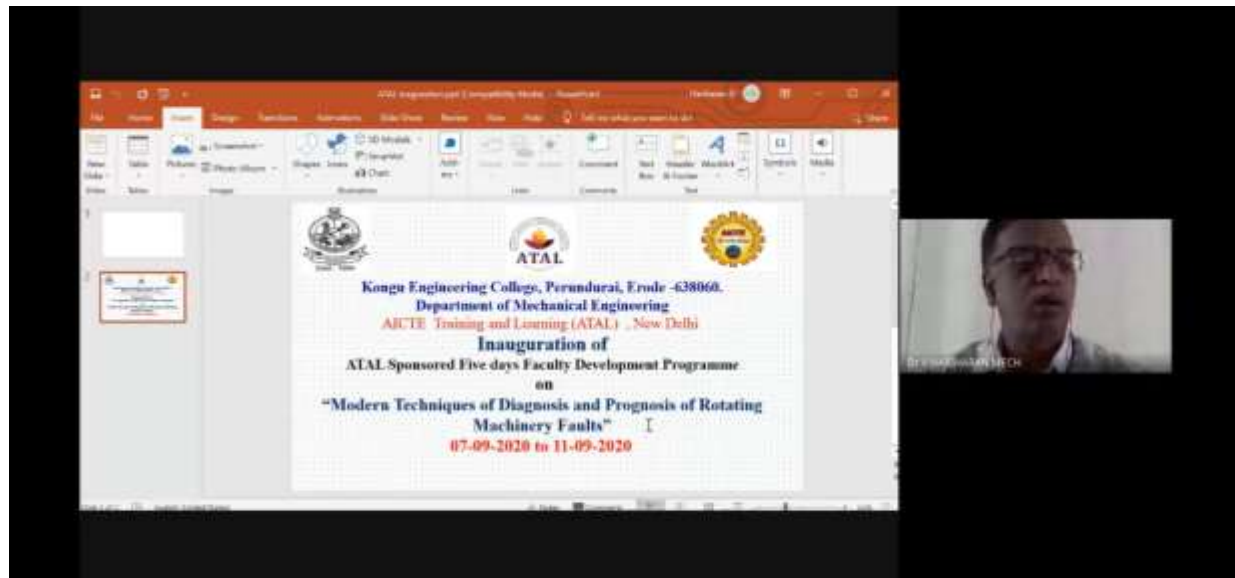
Third day forenoon, First session was handled by Dr R.Santhanam, Scientist "F", DRDL (DRDO), Hyderabad, on Modal Analysis and experimental Correlation. Followed by the second session by Dr S.B.Kandagal, Principal Research Scientist (Structures), Aerospace Engineering, IISc, Bangalore, given a talk on Vibration Measuring Instruments and Signal Processing for Different Applications. The afternoon session was handled by the Dr.G.Rajesh Kumar, Associate Professor of Mechanical Engineering, PSG Institute of Technology and Applied Research, Coimbatore, he delivered a lecture on Condition monitoring of composite driveshaft.

The fourth-day first session was handled by Dr M.Yuvaraja, Associate Professor of Mechanical Engineering, PSG College of Technology, Coimbatore, given a lecture on Vibration Analysis of Rotating Machinery. Followed by the second session Dr R. Thamilselvan, HOD/Department of Computer Applications, Kongu Engineering College, Perundurai, delivered the importance of yoga and Human Values. In the afternoon, the third session was handled by the Mr M. Vivekanadhan, CEO, TryCAE Industrial Engineering, Visiting Faculty-NITT, Trichy narrated the importance of Energy Aspects in Fans and Blowers for Diagnosis.

On fifth-day Forenoon session Dr S. Devendiran, Associate Professor of Mechanical Engineering, Vellore Institute of Technology, Vellore gave a lecture on Bearing Vibration using Algorithms and Research focus. The second session handled by the Dr Hamanthakumar, Associate Professor in Mechanical Engineering, National Institute of Technology, Karnataka, Surathkal, delivered a lecture on Fault Diagnosis Systems -Overview. In the afternoon session test has been conducted and the programme well ended with valedictory and feedback session.

At the end of the fifth day only 58 participants are successfully completed and met all criteria set by the ATAL Academy.

Some screenshots of the inaugural function are as below.



ATAL workshop on Modern Techniques of Diagnosis and Prognosis of Rotating Machinery Faults

2020

Participants List:

| Sl No. | Name | Institute | Email | Phone |
|--------|--|--|-------------------------------|------------|
| 1 | Mr. Jariwala Samir Dhansukhlal | Shroff S R Rotary Institute of Chemical Technology | samirjariwala83@gmail.com | 9825547691 |
| 2 | Dr. BARANIRAJ A | Government college of engineering,salem-11 | baraniraj.a@gmail.com | 9788877640 |
| 3 | Dr. Murugan P C | KONGU ENGINEERING COLLEGE | murugan.mech@kongu.ac.in | 9500968262 |
| 4 | Dr. SAJI RAVEENDRAN P | Kongu Engineering College | saji.mech@kongu.ac.in | 9790432974 |
| 5 | Mrs. V.Ramya | Sri Sai Ram Institute of Technology | ramyaah80@gmail.com | 9940296680 |
| 6 | Dr. P.NAVANEETHAKRISHNAN | Kongu Engineering College | pnk.mech@kongu.edu | 9842950323 |
| 7 | Dr. S.KATHIRESAN | Kongunadu College of Engineering and Technology (Autonomous) | kathiakash@gmail.com | 9786242332 |
| 8 | Dr. GUKENDRAN R | Kongu Engineering College, Perundurai | gukendran.r@gmail.com | 9842468578 |
| 9 | Dr. MOGANA PRIYA C | Kongu Engineering College | mogana98@kongu.ac.in | 9976855006 |
| 10 | Mr. Girishkumar Mohanlal Bramhakshatriya | Shroff S.R. Rotary Institute of Chemical Technology | girishvarde@gmail.com | 9979562454 |
| 11 | Mr. M MAKESHKUMAR | KONGU ENGINEERING COLLEGE | msmakeshkumar@gmail.com | 9715857958 |
| 12 | Mr. Venkateshwaran | Ksr polytechnic college | Venkateshwaran2020@gmail.com | 9788796321 |
| 13 | Dr. K G SARAVANAN | Sona College of Technology | kgsmechanical@gmail.com | 9842740648 |
| 14 | Dr. Shunmugesh K | Viswajyothi College of Engineering and Technology | shunmugesh@vjcet.org | 9947929956 |
| 15 | Mr. Ramachandran P | Kongunadu Polytechnic College | sriraman305@gmail.com | 9566417335 |
| 16 | Dr. Mohan Kumar Anand Raj | Kongu Engineering College | amohanmech2006@gmail.com | 9442710605 |
| 17 | Mrs. R.GAYATHRI | PAAVAI COLLEGE OF ENGINEERING | gayathriee5@gmail.com | 9791337389 |
| 18 | Dr. Sathishkumar T P | Kongu Engineering College | tpsathish81@gmail.com | 8072996380 |
| 19 | Dr. J KANDASAMY | Maturi Venkata Subba Rao Engineering College | kandaswamy_mech@mvsrec.edu.in | 9441346022 |
| 20 | Mr. T VINOTHKUMAR | RVS College of Engineering and Technology, Coimbatore | tvinoth15f@gmail.com | 9790432880 |
| 21 | Mr. Sanjeev Kumar Lambha | GURUKULA KANGRI VISHWAVIDYALAYA HARIDWAR | fetgkvsanjeevlambha@gmail.com | 9897058062 |
| 22 | Mr. YOGARAJ N | V S B ENGINEERING COLLEGE | yogaraj0506@gmail.com | 7904358658 |
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2020

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Feedback from participants:

1. Overall nice organization 👉 kindly share the recorded lectures in google drive to download.
2. All speakers from reputed institutions made the sessions very useful.
3. This FDP gives the eye opener for the new researchers in the area of rotating systems.
4. The session topics are discussed very elaborately and easy to understand.
5. The Yoga and Human values session was valuable during this pandemic.