

ORGANIZING COMMITTEE

CHIEF PATRON:

Prof. A. Kanagaraj
Chairman,
Jaya Educational Trust

Mrs.K.Vijaya Kumari
Secretary,
Jaya Educational Trust

PATRON:

Dr.Sami durai
Principal, JEC.

CONVENOR

Dr. V.K. SHANMUGANATHAN
Prof & HoD/ Aero

CO-ORDINATOR:

Mr.S.KEVIN BENNETT
Assistant Professor, Aero

Mr. BENNY THOMPSON E.J
Assistant Professor, Aero

**Venue: Department of Aeronautical
Engineering,
Jaya Engineering College.**

OBJECTIVE OF THE PROGRAMME

This programme is organised to provide and in-depth explanation of modelling a miniature aircraft that can be operated by using remote controls.

To facilitate the participants about modelling and fabricating an unmanned aerial vehicle.

TOPICS

1. History of Aircraft
2. Causes of crash investigation
3. The Blackbox
4. Selection of Investigation methods
5. Modern techniques of investigation

ADDRESS FOR COMMUNICATION

Dr. V.K. SHANMUGANATHAN
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WEBINAR

ON

**AIRCRAFT CRASH
INVESTIGATION**

22-08-2020

REGISTRATION FORM

Co-ordinator

**Mr.S.KEVIN BENNETT
Mr. BENNY THOMPSON E.J**

Organized by



**Department of Aeronautical
Engineering
Jaya Engineering College
Thiruninravur -602024**

ABOUT THE COLLEGE

Jaya Engineering College a premier technical institution approved by AICTE and affiliated to Anna University was established in 1995 with a focus on technological innovation, entrepreneurship and character building in the Faculties. The institution has been established by Jaya Educational Trust, imparting 12 excellent educations through 21 educational institutions offering courses in medicine, paramedical and arts & science besides running many schools, catering the needs of the society. The college management team consists of well experienced and committed Academicians and Administrators.

ABOUT THE DEPARTMENT

Department of Aeronautical Engineering is making great efforts in imparting knowledge and skill to meet the aircraft industry expectation .The department offers theory and lab works as per Anna University syllabus through qualified faculty and staff. Aeronautical Engineering department started functioning since 2006.The department has well equipped laboratory facilities and faculty to prepare the Faculties to meet future requirement in the field of aviation

ABOUT THE WEBINAR

To impart knowledge to the participants about the investigation of an aircraft that has been crashed. Due to the crash of an aircraft there will be lot of financial problems to the proprietor.By making participants aware of the crash investigations for further development in the failed parts of aircrafts.So, to make them know where to locate the crashed aircraft and then to locate the black box of the aircraft and how to investigate the cause of failure of the aircraft from the black box.

RESOURCE PERSON

Academician

Dr.V.K.Shanmuganathan
Prof & HoD/ Aero

Mr.R.Balan
Assistant Professor, Aero

Mr.D.Barath Raj
Assistant Professor, Aero

JAYA ENGINEERING COLLEGE
Thiruninravur
Department of Aeronautical Engineering
WEBINAR ON AIRCRAFT CRASH INVESTIGATION

Event Report

Date: 22-08-2020

Time: 9.00 A.M to 4.00 P.M

Venue: AVIONICS LAB/ AERO

Topic: WEBINAR ON AIRCRAFT CRASH INVESTIGATION

Resource Person:

Prof. Dr. V.K. Shanmuganathan, Associate Professor

Mr. R. Balan, Assistant Professor

Mr. D. Barath Raj, Assistant Professor

Participants: Faculties, Jaya Educational Group of Institutions.

About the Program:

Our Department has organized webinar on Aircraft Crash Investigation on 22-08-2020. This program was inaugurated on 22-08-2020 at 9.00 A.M successfully at AVIONICS Laboratory presided by The Principal, JEC and The HOD, Department of Aeronautical Engineering, JEC.

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box of the aircraft and how to investigate the cause of failure of the aircraft from the black box.

DR. V.K. SHANMUGANATHAN , HOD (AERO), gave a brief introduction on the basic concepts in Aeronautical Engineering curriculum. He explained how much important the subject and its application field where we are using in our real life.

Thanks to our Assistant Professor Mr S. Kevin Bennett and Mr. E.J. Benny Thompson for their well organization and execution in conducting the program effectively .


Coordinator


HoD
Head of the Department
Department of Aeronautical Engineering
Jaya Engineering College,
Thiruninravur-602024.

ORGANIZING COMMITTEE

CHIEF PATRON:

Prof. A. Kanagaraj
Chairman,
Jaya Educational Trust

Mrs.K.Vijaya Kumari
Secretary,
Jaya Educational Trust

PATRON:

Dr. Samidurai
Principal, JEC.

CONVENOR

Mr. Kevin Bennett S
Prof & HoD/ Aero

CO-ORDINATOR:

MR. BARATH RAJ D
Assistant Professor, Aero

Mr. SARAVANAN M K
Assistant Professor, Aero

**Venue: Department of Aeronautical
Engineering,
Jaya Engineering College.**

OBJECTIVE OF THE PROGRAMME

This programme is organised to provide and in-depth explanation of concepts of flying aeroplanes, aviation deals with the design, development, production, operation and maintenance of heavier-than-air aircrafts.

TOPICS

- 1. Micro UAV*
- 2. Nano UAV*
- 3. Flight integration systems*
- 4. Auto pilot*
- 5. FMS*

ADDRESS FOR COMMUNICATION

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Mobile:

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Aerohod@jec.ac.in,

Website: www.jec.ac.in

WORKSHOP

ON

**RECENT TRENDS
AND
DEVELOPMENTS IN
AVIONICS**

17.08.2019

Co-ordinators
MR. BARATH RAJ D
Mr. SARAVANAN M K

Organized by



**Department of Aeronautical
Engineering
Jaya Engineering College
Thiruninravur -602024**

ABOUT THE COLLEGE

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ABOUT THE DEPARTMENT

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ABOUT THE WORKSHOP

This session will address avionics trends and the impact they will have on flight operations. From MOSA (Modular Open Systems Architecture) and FACE (Future Airborne Capability Environment) to Next Gen and SESAR (next generation ATM US and Europe) to cyber security to unmanned vehicle operations, there is an incredible array of work going on in avionics development that will play a key role in future commercial, military and general aviation flight operations. The challenge is how these systems will be implemented, integrated, certified and fielded.

RESOURCE PERSON

Academician

Mr. Kevin Bennett S
Assistant Professor, Aero

Mr. Seethapathy R
Assistant Professor, Aero

Mr. Mohanraj P
Assistant Professor, Aero

JAYA ENGINEERING COLLEGE
Thiruninravur
Department of Aeronautical Engineering
RECENT TRENDS AND DEVELOPMENTS IN AVIONICS
Event Report

Date: 17-08-2019

Time: 9.00 A.M to 4.00 P.M

Venue:Department of Aeronautical Engineering

Topic: RECENT TRENDS AND DEVELOPMENTS IN AVIONICS

Resource Person:

Mr. S. Kevin Bennett

Mr P. Mohanraj

Mr.R. Seethapathy

Participants: Faculties, Jaya Educational Group of Institutions.

About the Program:

Our Department has organized the Workshop on Recent Trends And Developments In Avionics on 17-08-2019. This program was inaugurated on 17-08-2019 at 9.00 A.M successfully at Department of Aeronautical Engineering, presided by The Principal, JEC and the HOD, Department of Aeronautical Engineering, JEC.

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This session will address avionics trends and the impact they will have on flight operations. From MOSA (Modular Open Systems Architecture) and FACE (Future Airborne Capability Environment) to Next Gen and SESAR (next generation ATM US and Europe) to cyber security to unmanned vehicle operations, there is an incredible array of work going on in avionics development that will play a key role in future commercial, military and general

aviation flight operations. The challenge is how these systems will be implemented, integrated, certified and fielded. This programme is organised to provide an in-depth explanation of concepts of flying aeroplanes. Aviation deals with the design, development, production, operation and maintenance of heavier-than-air aircrafts.

Mr. S. Kevin Bennett, HOD (AERO), gave a brief introduction on the basic concepts in Aeronautical Engineering curriculum. He explained how much important it is to know about the recent trends in the field of aeronautical engineering and to know about the developments in avionics.

The Quiz competition has been conducted at the end of session. The certificate was provided at the end of the event.

Thanks to our Assistant Professor Mr D. Barath Raj and Mr. M.K. Saravanan for their well organization and execution in conducting the program effectively


Coordinator


HoD
Head of the Department
Department of Aeronautical Engineering
Anna Engineering College,
Tiravur-602024.

ORGANIZING COMMITTEE

CHIEF PATRON:

Prof. A. Kanagaraj
Chairman,
Jaya Educational Trust

Mrs.K.Vijaya Kumari
Secretary,
Jaya Educational Trust

PATRON:

Dr.Krishnan Vijayaragavan
Principal, JEC.

CONVENOR

Dr. V.K. SHANMUGANATHAN
Prof & HoD/ Aero

CO-ORDINATOR:

Mr. SARAVANAN M K
Assistant Professor, Aero

Mr. MOHANRAJ P
Assistant Professor, Aero

**Venue: Department of Aeronautical
Engineering,
Jaya Engineering College.**

OBJECTIVE OF THE PROGRAMME

This programme is organised to provide and in-depth explanation of modelling a miniature aircraft that can be operated by using remote controls.

To facilitate the participants about modelling and fabricating an unmanned aerial vehicle.

TOPICS

- 1. Selection of Prototype*
- 2. Design of Prototype*
- 3. Range of transmitter*
- 4. Fabrication of the RC aircraft*
- 5. Flight testing of the prototype*

ADDRESS FOR COMMUNICATION

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ONE DAY WORKSHOP

ON

RC MODELLING

13.07.2019

Co-ordinators
Mr. SARAVANAN M K
Mr. MOHANRAJ P

Organized by



**Department of Aeronautical
Engineering
Jaya Engineering College
Thiruninravur -602024**

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ABOUT THE DEPARTMENT

Department of Aeronautical Engineering is making great efforts in imparting knowledge and skill to meet the aircraft industry expectation. The department offers theory and lab works as per Anna University syllabus through qualified faculty and staff. Aeronautical Engineering department started functioning since 2006. The department has well equipped laboratory facilities and faculty to prepare the Faculties to meet future requirement in the field of aviation.

ABOUT THE WORKSHOP

To give basic knowledge to the participants about the selection of the material, design of aerofoil and propulsive system required. Then fabricating their design ideas by helping them and to test the aircraft by real time flying. To give some knowledge about the usefulness of human life by manufacturing an unmanned aerial vehicle.

RESOURCE PERSON

Academician

Dr.V.K.Shannuganathan
Prof & HoD/ Aero

Mr.R.Scethapathy
Assistant Professor, Aero

Mr. D.Barathraj
Assistant Professor, Aero

JAYA ENGINEERING COLLEGE
Thiruninravur
Department of Aeronautical Engineering
WORKSHOP ON RC MODELLING

Event Report

Date: 13.07.2019

Time: 9.00 A.M to 4.00 P.M

Venue: Department of Aeronautical Engineering

Topic: WORKSHOP ON RC MODELLING

Resource Person:

Prof. Dr. V.K. Shanmuganathan, Associate Professor

Mr D.Barath Raj

Mr.R. Seethapathy

Participants: Faculties, Jaya Educational Group of Institutions.

About the Program:

Our Department has organized the Workshop On Rc Modelling on 13.07.2019. This program was inaugurated on 13.07.2019 at 9.00 A.M successfully at Department of Aeronautical Engineering presided by The Principal, JEC and the HOD, Department of Aeronautical Engineering, JEC.

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To give basic knowledge to the participants about the selection of the material, design of aerofoil and propulsive system required. Then fabricating their design ideas by helping them and to test the aircraft by real time flying. To give some knowledge about the usefulness of human life by manufacturing an unmanned aerial vehicle.

Dr. V.K. SHANMUGANATHAN , HOD (AERO), gave a brief introduction on the basic concepts in Aeronautical Engineering curriculum. He explained how much important the Finite Element Analysis subject and its application field where we are using in our real life.

Thanks to our Assistant Professor Mr M.K.Saravanan and Mr. P. Mohan Raj for their well organization and execution in conducting the program effectively



Coordinator



HoD
Head of the Department
Department of Aeronautical Engineering,
Jaya Engineering College,
Thiruvallur-602024.

ORGANIZING COMMITTEE

CHIEF PATRON:

Prof. A. Kanagaraj
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Secretary,
Jaya Educational Trust

PATRON:

Dr.Krishnan Vijayaragavan
Principal, JEC.

CONVENOR

Dr.V.K.Shanmuganathan
Prof & HoD/ Aero

CO-ORDINATOR:

Mr. Benny Thompson E.J
Assistant Professor, Aero

Mr. Barath Raj D
Assistant Professor, Aero

**Venue: Department of Aeronautical
Engineering,
Jaya Engineering College.**

OBJECTIVE OF THE PROGRAMME

This programme is organised to provide and in-depth explanation of modelling a miniature aircraft that can be operated by using remote controls.

To facilitate the participants about modelling and fabricating an unmanned aerial vehicle.

TOPICS

- 1.Jacking up of an aircraft*
- 2.Levelling of an aircraft*
- 3.Symmetry checks on aircraft*
- 5.Hydraulic checks on landing gears*
- 6.MIL STD*
- 7. Databus architecture*
- 8. Arinc 429*
- 9.Avionics subsystems*

ADDRESS FOR COMMUNICATION

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ONE DAY WORKSHOP

ON

**GROUND HANDLING OF
AIRCRAFT AND AVIONICS
SYSTEMS**

25-08-2018

Co-ordinators

Mr. BENNY THOMPSON E.J
Mr. BARATH RAJ D

Organized by



**Department of Aeronautical
Engineering
Jaya Engineering College
Thiruninravur -602024**

ABOUT THE COLLEGE

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ABOUT THE DEPARTMENT

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ABOUT THE WORKSHOP

"To plant healthy seed in the minds of the participants about the development in the avionics systems in each aircraft that is flying in the air as of now and yet to be taken off".The participants will be well-trained in the jacking,levelling,symmetry check and mooring methods of any aircraft by the principle of "Seeing is believing".

RESOURCE PERSON

Academician

Dr.V.K.Shanmuganathan
Prof & HoD/ Aero

Mr.Seethapathy.R
Assistant Professor, Aero

Mr. Kevin Bennett.S
Assistant Professor, Aero

JAYA ENGINEERING COLLEGE
Thiruninravur
Department of Aeronautical Engineering
WORKSHOP ON GROUND HANDLING OF AIRCRAFT AND AVIONICS
SYSTEMS

Event Report

Date: 25-08-2018

Time: 9.30 A.M to 4.30 P.M

Venue: Department of Aeronautical Engineering

Topic: GROUND HANDLING OF AIRCRAFT AND AVIONICS SYSTEMS

Resource Person:

Dr. V.K. Shanmuganathan, Associate Professor

Mr S. Kevin Bennett

Mr.R. Seethapathy

Participants: Faculties, Jaya Educational Group of Institutions.

About the Program:

Our Department has organized the Workshop on Ground Handling Of Aircraft And Avionics Systems on 25-08-2018. This program was inaugurated on 25.08.2018 at 9.30 A.M successfully at Department of Aeronautical Engineering presided by The Principal, JEC and the HOD, Department of Aeronautical Engineering, JEC.

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Though many workshops focus on Ground Handling Of Aircraft And Avionics Systems, very rarely theory behind the application is disseminated. We have also come across difficulties amongst the student community in understanding this subject, which is part of the VII semester Aeronautical Engineering curriculum under Anna University Hence this one day workshop is

aimed at discussing the important topics of the current Three jack points, located at each wing tiedown and tail tiedown, are provided to perform maintenance operations. Tie-down rings must be removed and replaced with jack points prior to lifting. Jack points are stowed in the baggage compartment. The airplane may be jacked using two standard aircraft hydraulic jacks at the wing jacking points and a weighted tailstand attached to the aft tail tiedown. For leveling procedures, the airplane may be jacked using an aircraft hydraulic jack positioned at the aft tail tiedown. MIL-STD-1553B defines the term Time Division Multiplexing (TDM) as "the transmission of from several signal sources through one communications system with differentsignal samples staggered in time to data can be transferred between multiple avionics units over a singletransmission media, with the communications between the different avionics boxes taking placeat different moments in time, hence time division. a summary of the 1553 Data BusCharacteristics. However, before defining how the data are transferred, it is necessary tounderstand the data bus hardware.

DR. V.K. SHANMUGANATHAN , HOD (AERO), gave a brief introduction on the basic concepts in Aeronautical Engineering curriculum. He explained how much important the Finite Element Analysis subject and its application field where we are using in our real life.

The Quiz competition has been conducted at the end of each session. The certificate was provided at the end of the event.

Thanks to our Assistant Professor Mr. D. Barath Raj and Mr. E.J. Benny Thompson for their well organization and execution in conducting the program effectively


Coordinator


HoD
Head of the Department
Department of Aeronautical Engineering
Jaya Engineering College,
Thiruniravur-602014

ORGANIZING COMMITTEE

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Chairman,
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Mrs.K.Vijaya Kumari
Secretary,
Jaya Educational Trust

PATRON:

Dr.Krishnan Vijayaragavan
Principal, JEC.

CONVENOR

Dr.V.K.Shanmuganathan
Prof & HoD/ Aero

CO-ORDINATOR:

Mr. SEETHAPATHY R
Assistant Professor, Aero

Mr. JEY SINGH V.K
Assistant Professor, Aero

**Venue: Department of Aeronautical
Engineering,
Jaya Engineering College.**

OBJECTIVE OF THE PROGRAMME

This programme is organised to provide and in-depth explanation of concepts of modelling packages.

To facilitate the participants about the modelling and analysis software and to gain sound knowledge of the same.

TOPICS

1. *Cad/Cam*
2. *Ansys*
3. *Nastran*
4. *Patran*
5. *Abacus*

ADDRESS FOR COMMUNICATION

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ONE DAY WORKSHOP

ON

**HOW TO BECOME CADD
DESIGN ENGINEER**

21-07-2017

REGISTRATION FORM

Co-ordinators
Mr. SEETHAPATHY R
Mr. JEY SINGH V.K

**CADDAM
SOLUTIONS**

Organized by



**Department of Aeronautical
Engineering
Jaya Engineering College
Thiruniravur -602024**

ABOUT THE COLLEGE

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ABOUT THE WORKSHOP

In modern design systems, end-to-end component design is highly automated using computer-aided design (CAD) and computer-aided manufacturing (CAM) programs. Since any particular component might require the use of a number of different tools – drills, saws, etc., modern machines often combine multiple tools into a single "cell". In other installations, a number of different machines are used with an external controller and human or robotic operators that move the component from machine to machine. In either case, the series of steps needed to produce any part is highly automated and produces a part that closely matches the original CAD design.

RESOURCE PERSON

Academician

Dr.V.K.Shanmuganathan
Prof & HoD/ Aero

Mr.R.Balan
Assistant Professor, Aero

Mr.Mohanraj P
Assistant Professor, Aero

Industry Experts

Mr. Karthikeyan R,
CADDAM SOLUTIONS

JAYA ENGINEERING COLLEGE
Thiruninravur
Department of Aeronautical Engineering
WORKSHOP ON HOW TO BECOME CADD DESIGN ENGINEER

Event Report

Date: 21-07-2017

Time: 9.00 A.M to 4.00 P.M

Venue: Department of Aeronautical Engineering

Topic: HOW TO BECOME CADD DESIGN ENGINEER

Resource Person:

Prof. Dr. V.K. Shanmuganathan, Associate Professor

Mr. R. Balan

Mr. P. Mohan Raj

Mr. R. Karthikeyan, CADDAM Solutions

Participants: Faculties, Jaya Educational Group of Institutions.

About the Program:

Our Department has organized Workshop on How To Become Cadd Design Engineer on 21-07-2017. This program was inaugurated on 21-07-2017 at 9.00 A.M successfully at Department of Aeronautical Engineering presided by The Principal, JEC and the HOD, Department of Aeronautical Engineering, JEC.

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are used with an external controller and human or robotic operators that move the component from machine to machine. In either case, the series of steps needed to produce any part is highly automated and produces a part that closely matches the original CAD design

Dr. V.K. SHANMUGANATHAN , HOD (AERO), gave a brief introduction on the basic concepts in Aeronautical Engineering curriculum. He explained how much important the Finite Element Analysis subject and its application field where we are using in our real life.

Thanks to our Assistant Professor Mr R. Seethapathy and Mr. V.K. Jeysingh for their well organization and execution in conducting the program effectively



Coordinator



HoD

**Head of the Department
Department of Aeronautical Engineering
Jaya Engineering College,
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Jaya Educational Trust

PATRON:

Dr.Krishnan Vijayaragavan
Principal, JEC.

CONVENOR

Dr.V.K.Shanmuganathan
Prof & HoD/ Aero

CO-ORDINATOR:

Mr. M K SARAVANAN
Assistant Professor, Aero

Mr. MOHANRAJ P
Assistant Professor, Aero

Venue: Mechanical Department,
CAD LAB
Jaya Engineering College.

OBJECTIVE OF THE PROGRAMME

This programme is organised to provide an in-depth explanation of concepts of modelling packages.

To facilitate the participants about the modelling and analysis software and to gain sound knowledge of the same.

TOPICS

- Introduction to FEM
- Definition
- Weighted Residual Method
- Formulation
- Partial differential equation
- Bar and Beam structural problems
- Bar and Beam thermal problem
- Bar and Beam vibration problem
- 2D scalar and vector variable problems

ADDRESS FOR COMMUNICATION

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Website: www.jec.ac.in

SIX DAYS WORKSHOP

ON

HOW TO BECOME FEA DESIGN ENGINEER

23-06-2017

Co-ordinators
Mr. M K SARAVANAN
Mr.MOHANRAJ P

CADDAM SOLUTIONS

Organized by



Department of Aeronautical
Engineering
Jaya Engineering College
Thiruniravur -602024

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ABOUT THE WORKSHOP

To gain knowledge about Basic fundamental theory of Finite Element Analysis. This is used to study the governing equation of given problem and the usage of Partial differential equation and also analyze the different structural and thermal analysis using Ansys.

RESOURCE PERSON

Academician and Industry Experts
Prof. Dr.P.Gurusamy/HOD/MECH

Dr.V.K.Shanmuganathan
Dr.S.Rajendran / Asso.Prof. / MECH

Industry Experts

Mr.Boobalan / Design Engineer

JAYA ENGINEERING COLLEGE
Thiruninravur
Department of Aeronautical Engineering
WORKSHOP ON HOW TO BECOME FEA DESIGN ENGINEER
Event Report

Date: 23-06-2017

Time: 9.00 A.M to 4.00 P.M

Venue: CADD LAB / MECHANICAL DEPT.

Topic: WORKSHOP ON HOW TO BECOME FEA DESIGN ENGINEER

Resource Person:

Prof. Dr. P. Gurusamy
Dr. V.K. Shanmuganathan
Dr. S. Rajendran
Mr. Boobalan

Participants: Faculties, Jaya Educational Group of Institutions.

About the Program:

Our Department has organized the Workshop on How To Become FEA Design Engineer on 23-06-2017. This program was inaugurated on 23-06-2017 at 9.00 A.M successfully at CAD Laboratory, Mechanical Department presided by The Principal, JEC and the HOD, Department of Aeronautical Engineering, JEC.

Department of Aeronautical Engineering is making great efforts in imparting knowledge and skill to meet the aircraft industry expectation. The department offers theory and lab works as per Anna University syllabus through qualified faculty and staff. Aeronautical Engineering department started functioning since 2006. The department has well equipped laboratory facilities and faculty to prepare the Faculties to meet future requirement in the field of aviation.


Finite element analysis is an important subject for Aeronautical Engineering graduates, especially for those who dream of working in the R & D of leading manufacturing, automotive and aerospace industries. It is also given academically trending research area where enormous amount of cutting edge research is being conducted.

Though many workshops focus on the application of finite element simulation using available software codes, very rarely theory behind the application is disseminated. We have also come across difficulties amongst the student community in understanding this subject, which is part of the VI semester Aeronautical Engineering curriculum under Anna University

Hence this one day workshop is aimed at discussing the important topics of the current Finite Element Analysis syllabus and also touching upon relevant applications in solid mechanics and thermal engineering.

DR. V.K. SHANMUGANATHAN, HOD gave a brief introduction on the basic concepts in Aeronautical Engineering curriculum. He explained how much important the Finite Element Analysis subject and its application field where we are using in our real life.

I would also like to thank our Assistant Professor Mr M.K. Saravanan and Mr. P. Mohan Raj for their well organization and execution in conducting the program effectively


Coordinator


HoD

Head of the Department
Department of Aeronautical Engineering
JSS Engineering College,
Thiruvannamalai-602024

ORGANIZING COMMITTEE

CHIEF PATRON:

Prof. A. Kanagaraj
Chairman,
Jaya Educational Trust

Mrs.K.Vijaya Kumari
Secretary,
Jaya Educational Trust

PATRON:

Dr.Krishnan Vijayaragavan
Principal, JEC.

CONVENOR

Dr.V.K.Shanmuganathan
Prof & HoD/ Aero

CO-ORDINATOR:

Mr. BARATH RAJ D
Assistant Professor, Aero

Mr. BALAN R
Assistant Professor, Aero

Venue: Department of Aeronautical
Engineering,
Jaya Engineering College.

OBJECTIVE OF THE PROGRAMME

This programme is organised to provide and in-depth explanation on propulsion structures,aerodynamics,aircraft Materials,Computational fluid dynamics,stability

To facilitate the participants about the hands on experience in the areas and to gain sound knowledge of the same.

TOPICS

1. propulsion
2. aerodynamics
3. structures
4. aircraft Materials
5. Computational fluid dynamics
6. stability and control techniques

ADDRESS FOR COMMUNICATION

Dr.V.K.SHANMUGANATHAN
Department of Aeronautical Engineering

Jaya Engineering College,
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Aerohod@jec.ac.in,

Website: www.jec.ac.in

WORKSHOP ON RECENT TRENDS IN AERONAUTICAL ENGINEERING

27.08.2016

Co-ordinators
Mr. BARATH RAJ D
Mr. BALAN R

Organized by



Department of Aeronautical
Engineering
Jaya Engineering College
Thiruniravur -602024

ABOUT THE COLLEGE

Jaya Engineering College a premier technical institution approved by AICTE and affiliated to Anna University was established in 1995 with a focus on technological innovation, entrepreneurship and character building in the Faculties. The institution has been established by Jaya Educational Trust, imparting 12 excellent educations through 21 educational institutions offering courses in medicine, paramedical and arts & science besides running many schools, catering the needs of the society. The college management team consists of well experienced and committed Academicians and Administrators.

ABOUT THE DEPARTMENT

Department of Aeronautical Engineering is making great efforts in imparting knowledge and skill to meet the aircraft industry expectation .The department offers theory and lab works as per Anna University syllabus through qualified faculty and staff. Aeronautical Engineering department started functioning since 2006.The department has well equipped laboratory facilities and faculty to prepare the Faculties to meet future requirement in the field of aviation

ABOUT THE WORKSHOP

In recent year rapid advances have taken place in the field of aeronautical Engineering this workshop has therefore been planned to provide a forum for imparting specific knowledge and hands on experience in the areas of propulsion aerodynamics ,structures,aircraft Materials,Computational fluid dynamics,stability and control techniques

RESOURCE PERSON

Academician

Dr.V.K.Shanmuganathan
Prof & HoD/ Aero

Mr.E.J.Benny Thompson
Assistant Professor, Aero

Mr. S.Kevin Bennett
Assistant Professor, Aero

JAYA ENGINEERING COLLEGE
Thiruninravur
Department of Aeronautical Engineering
RECENT TRENDS IN AERONAUTICAL ENGINEERING

Event Report

Date: 27-08-2016

Time: 9.00 A.M to 4.00 P.M

Venue: Department of Aeronautical Engineering

Topic: RECENT TRENDS IN AERONAUTICAL ENGINEERING

Resource Person:

Prof. Dr. V.K. Shanmuganathan, Associate Professor

Mr S. Kevin Bennett

Mr. EJ Benny Thompson

Participants: Faculties, Jaya Educational Group of Institutions.

About the Program:

Our Department has organized the Workshop on Recent Trends In Aeronautical Engineering on 27-08-2016. This program was inaugurated on 27-08-2016 at 9.00 A.M successfully at Department of Aeronautical Engineering presided by The Principal, JEC and the HOD, Department of Aeronautical Engineering, JEC.

Department of Aeronautical Engineering is making great efforts in imparting knowledge and skill to meet the aircraft industry expectation .The department offers theory and lab works as per Anna University syllabus through qualified faculty and staff. Aeronautical Engineering department started functioning since 2006. The department has well equipped laboratory facilities and faculty to prepare the Faculties to meet future requirement in the field of aviation

In recent year rapid advances have taken place in the field of aeronautical Engineering this workshop has therefore been planned to provide a forum for imparting specific knowledge and hands on experience in the areas of propulsion aerodynamics ,structures.aircraft Materials,Computational fluid dynamics,stability and control techniques.

This programme is organised to provide an in-depth explanation of propulsion, structures, aerodynamics, aircraft materials, Computational fluid dynamics, stability.

Dr. V.K. SHANMUGANATHAN, HOD (AERO), gave a brief introduction on the basic concepts in Aeronautical Engineering curriculum. He explained how much important the Finite Element Analysis subject and its application field where we are using in our real life.

The Quiz competition has been conducted at the end of each session. The certificate was provided at the end of the event.

Thanks to our Assistant Professor Mr R. Balan and Mr. D. Barath Raj for their well organization and execution in conducting the program effectively


Coordinator


HoD
Head of the Department
Department of Aeronautical Engineering
Jaya Engineering College,
Thiruvananthapuram-620224.

ORGANIZING COMMITTEE

CHIEF PATRON:

Prof. A. Kanagaraj
Chairman,
Jaya Educational Trust

Mrs.K.Vijaya Kumari
Secretary,
Jaya Educational Trust

PATRON:

Dr.Krishnan Vijayaragavan
Principal, JEC.

CONVENOR

Dr.V.K.Shanmuganathan
Prof & HoD/ Aero

CO-ORDINATOR:

Mr. JEY SINGH V.K
Assistant Professor, Aero

Mr. BALAN R
Assistant Professor, Aero

Venue: Department of Aeronautical
Engineering,
Jaya Engineering College.

OBJECTIVE OF THE PROGRAMME

This programme is organised to provide and in-depth explanation of modelling a miniature aircraft that can be operated by using remote controls.

To facilitate the participants about modelling and fabricating an unmanned aerial vehicle.

TOPICS

1. *Jacking up of an aircraft*
2. *Levelling of an aircraft*
3. *Databus architecture*
4. *Arinc 429*
5. *Avionics subsystems*

ADDRESS FOR COMMUNICATION

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Aerohod@jec.ac.in,

Website: www.jec.ac.in

ONE DAY WORKSHOP

ON

GROUND HANDLING OF AIRCRAFT AND AVIONICS SYSTEMS

30-07-2016

Co-ordinators

Mr. JEY SINGH V.K

Mr. BALAN R

Organized by



Department of Aeronautical
Engineering
Jaya Engineering College
Thiruniravur -602024

ABOUT THE COLLEGE

Jaya Engineering College a premier technical institution approved by AICTE and affiliated to Anna University was established in 1995 with a focus on technological innovation, entrepreneurship and character building in the Faculties. The institution has been established by Jaya Educational Trust, imparting 12 excellent educations through 21 educational institutions offering courses in medicine, paramedical and arts & science besides running many schools, catering the needs of the society. The college management team consists of well experienced and committed Academicians and Administrators.

ABOUT THE DEPARTMENT

Department of Aeronautical Engineering is making great efforts in imparting knowledge and skill to meet the aircraft industry expectation. The department offers theory and lab works as per Anna University syllabus through qualified faculty and staff. Aeronautical Engineering department started functioning since 2006. The department has well equipped laboratory facilities and faculty to prepare the Faculties to meet future requirement in the field of aviation.

ABOUT THE WORKSHOP

"To plant healthy seed in the minds of the participants about the development in the avionics systems in each aircraft that is flying in the air as of now and yet to be taken off". The participants will be well-trained in the jacking, levelling, symmetry check and mooring methods of any aircraft by the principle of "Seeing is believing".

RESOURCE PERSON

Academician

Dr.V.K.Shanmuganathan
Prof & HoD/ Aero

Mr.R.Seethapathy
Assistant Professor, Aero

Mr.S. Kevin Bennett
Assistant Professor, Aero

JAYA ENGINEERING COLLEGE
Thiruninravur
Department of Aeronautical Engineering
WORKSHOP ON GROUND HANDLING OF AIRCRAFT AND AVIONICS
SYSTEMS

Event Report

Date: 30-07-2016

Time: 9.00 A.M to 4.00 P.M

Venue: Department of Aeronautical Engineering

Topic: GROUND HANDLING OF AIRCRAFT AND AVIONICS SYSTEMS

Resource Person:

Dr. V.K. Shanmuganathan, Associate Professor

Mr S. Kevin Bennett

Mr.R. Seethapathy

Participants: Faculties, Jaya Educational Group of Institutions.

About the Program:

Our Department has organized the Workshop on Ground Handling Of Aircraft And Avionics Systems on 30-07-2016. This program was inaugurated on 30-07-2016 at 9.00 A.M successfully at Department of Aeronautical Engineering presided by The Principal, JEC and the HOD, Department of Aeronautical Engineering, JEC.

Department of Aeronautical Engineering is making great efforts in imparting knowledge and skill to meet the aircraft industry expectation .The department offers theory and lab works as per Anna University syllabus through qualified faculty and staff. Aeronautical Engineering department started functioning since 2006.The department has well-equipped laboratory facilities and faculty to prepare the Faculties to meet future requirement in the field of aviation

Though many workshops focus on Ground Handling Of Aircraft And Avionics Systems, very rarely theory behind the application is disseminated. We have also come across difficulties amongst the student community in understanding this subject, which is part of the VII semester

Aeronautical Engineering curriculum under Anna University. Hence this one day workshop is aimed at discussing the important topics of the current Three jack points, located at each wing tiedown and tail tiedown, are provided to perform maintenance operations. Tie-down rings must be removed and replaced with jack points prior to lifting. Jack points are stowed in the baggage compartment. The airplane may be jacked using two standard aircraft hydraulic jacks at the wing jacking points and a weighted tailstand attached to the aft tail tiedown. For leveling procedures, the airplane may be jacked using an aircraft hydraulic jack positioned at the aft tail tiedown

Dr. V.K. SHANMUGANATHAN , HOD (AERO), gave a brief introduction on the basic concepts in Aeronautical Engineering curriculum. He explained how much important the Finite Element Analysis subject and its application field where we are using in our real life.

The Quiz competition has been conducted at the end of each session. The certificate was provided at the end of the event.

Thanks to our Assistant Professor Mr V.K. Jeysingh and Mr. R. Balan for their well organization and execution in conducting the program effectively


Coordinator


HoD
Head of the Department
Department of Aeronautical Engineering
Jaya Engineering College,
Thiruninravur-602024.

ORGANIZING COMMITTEE

CHIEF PATRON:

Prof .A. Kanagaraj
Chairman,
Jaya Educational Trust

Mrs.K.VijayaKumari
Secretary,
Jaya Educational Trust

Er.K.Navaraj
Vice Chancellor
Jaya Educational Trust

Dr.K.Dheena
Managing Secretary
Jaya Educational Trust

PATRON:

Prof.Dr.KrishnanVijayaragavan
Principal, JEC.

CONVENOR

Prof. Dr. V.K. Shanmuganathan
HoD Aeronautical

CO-ORDINATORS:

Mr.S. Kevin Bennett
Mr.R.Balan

Venue: Cad lab

AIM & SCOPE OF THE PROGRAMME

To gain knowledge about Basic fundamental theory of Finite Element Analysis. This is used to study the governing equation of given problem and the usage of Partial differential equation and also analyze the different structural and thermal analysis using Ansys.

TOPICS

- Introduction to FEM
- Definition
- Weighted Residual Method
- Formulation
- Partial differential equation
- Bar and Beam structural problems
- Bar and Beam thermal problem
- Bar and Beam vibration problem
- 2D scalar and vector variable problems

ADDRESS FOR COMMUNICATION

Prof. Dr. V.K. Shanmuganathan
HoD Aeronautical
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Aerohod@jec.ac.in,
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*One Day Workshop on
HANDS ON TRAINING
ON ANSYS SOFTWARE*

(Date: 19-07-2016)

REGISTRATION FORM

Co-ordinators
Mr S.Kevin Bennett
Mr.R.Balan

Organized by



Department of Aeronautical Engineering
Jaya Engineering College
Thiruninravur -602024

ABOUT THE COLLEGE

Jaya Engineering College a premier technical institution approved by AICTE and affiliated to Anna University was established in 1995 with a focus on technological innovation, entrepreneurship and character building in the Faculties. The institution has been established by Jaya Educational Trust, imparting 12 excellent educations through 21 educational institutions offering courses in medicine, paramedical and arts & science besides running many schools, catering the needs of the society. The college management team consists of well experienced and committed Academicians and Administrators.

ABOUT THE DEPARTMENT

The discipline of Aeronautical Engineering which is the prime hub of engineering education was started right from the inception of the Jaya Engineering College in 1994. The department offers the richly integrated Anna University curriculum to its BE & ME Faculties with the help of highly qualified and intellectually stimulating teams of lecturers. The department possesses intake of around sixty Faculties every year.

ABOUT THE WORKSHOP

Finite element analysis is an important subject for Aeronautical Engineering graduates, especially for those who dream of working in the R & D of leading manufacturing, automotive and aerospace industries. It is also given academically trending research area where enormous amount of cutting edge research is being conducted.

Though many workshops focus on the application of finite element simulation using available software codes, very rarely theory behind the application

is disseminated. We have also come across difficulties amongst the student community in understanding this subject, which is part of the VI semester Aeronautical Engineering curriculum under Anna University.

Hence this one day workshop is aimed at discussing the important topics of the current Finite Element Analysis syllabus and also touching upon relevant applications in solid mechanics and thermal engineering.

RESOURCE PERSON

Academician

Mr S.Kevin Bennett/ Asst.Prof. / Aero

Industry Experts

Mr.Boobalan / Design Engineer

JAYA ENGINEERING COLLEGE
Thiruninravur
Department of Aeronautical Engineering
WORKSHOP ONHANDS ON TRAINING ON ANSYS SOFTWARE

Event Report

Date:19-07-2016

Time: 9.30 A.M to 4.30 P.M

Venue:CAD LAB/ Acro

Topic:HANDS ON TRAINING ON ANSYS SOFTWARE

Resource Person:

Mr. S. Kevin Bennett, Assistant Professor

Mr. Boobalan, Design Engineer.

Participants: Faculties, Jaya Educational Group of Institutions.

About the Program:

Our Department has organized the Workshop on Hands On Training On Ansys Software on 19-07-2016. This program was inaugurated on 19.07.2016 at 9.30 A.M successfully at CAD Laboratory, Acro presided by The Principal, JEC and the HOD, Department of Aeronautical Engineering, JEC.

Design knowledge is important Aeronautical Engineering graduates, especially for those who dream of working in the R & D of leading manufacturing, automotive and aerospace industries. It is also given academically trending research area where enormous amount of cutting edge research is being conducted.

Though many workshops focus on the application of finite element simulation using available software codes, very rarely theory behind the application is disseminated. We have also come across difficulties amongst the student community in understanding this subject, which is part of the VI semester Aeronautical Engineering curriculum under Anna University

Hence this one day workshop is aimed at discussing the important topics of the current Finite Element Analysis syllabus and also touching upon relevant applications in solid mechanics and thermal engineering.

DR. V.K. SHANMUGANATHAN, HOD (AERO), gave a brief introduction on the basic concepts in Aeronautical Engineering curriculum. He explained how much important the Finite Element Analysis subject and its application field where we are using in our real life.

The Quiz competition has been conducted at the end of session. The certificate was provided at the end of the event.

Thanks to our Assistant Professor Mr S.Kevin Bennett and Mr.Balan for their well organization and execution in conducting the program effectively.

R. Balan
Coordinator

Shanmuganathan
HoD

Head of the Department
Department of Aeronautical Engineering
Jaya Engineering College,
Thiruninravur-602024.

ORGANIZING COMMITTEE

CHIEF PATRON:

Prof. A. Kanagaraj
Chairman,
Jaya Educational Trust

Mrs.K.Vijaya Kumari
Secretary,
Jaya Educational Trust

PATRON:

Dr. K. Samydarai
Principal, JEC.

CONVENOR

Dr.V.K.Shanmuganathan
Prof & HoD/ Aero

CO-ORDINATOR:

MR. S.KEVIN BENNETT
Assistant Professor, Aero

MR. D.BARATH RAJ
Assistant Professor, Aero

Venue: Seminar Hall,
Jaya Engineering College.

OBJECTIVE OF THE PROGRAMME

The objective of enabling faculty obtain certificates for courses is to make students employable in the industry or pursue a suitable higher education programme.

To facilitate the participants about largest online repository in the world of courses in engineering, basic sciences and selected humanities and management subjects

ADDRESS FOR COMMUNICATION

Dr.V.K.SHANMUGANATHAN
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Website: www.jec.ac.in

**Awareness Program
on
NPTEL Certificate
Courses**

28-12-2019

Co-ordinators

**MR. S. KEVIN BENNETT
MR. D.BARATH RAJ**

Organized by



**Department of Aeronautical
Engineering
Jaya Engineering College
Thiruninravur -602024**

ABOUT THE COLLEGE

Jaya Engineering College a premier technical institution approved by AICTE and affiliated to Anna University was established in 1995 with a focus on technological innovation, entrepreneurship and character building in the Faculties. The institution has been established by Jaya Educational Trust, imparting 12 excellent educations through 21 educational institutions offering courses in medicine, paramedical and arts & science besides running many schools, catering the needs of the society. The college management team consists of well experienced and committed Academicians and Administrators.

ABOUT THE DEPARTMENT

Department of Aeronautical Engineering is making great efforts in imparting knowledge and skill to meet the aircraft industry expectation. The department offers theory and lab works as per Anna University syllabus through qualified faculty and staff. Aeronautical Engineering department started functioning since 2006. The department has well equipped laboratory facilities and faculty to prepare the Faculties to meet future requirement in the field of aviation.

ABOUT THE WORKSHOP

NPTEL is a good platform where you can learn the things that you want you can learn the courses of your choice whether that course belongs to your stream or not. Engineering is that field of education where a person gets a good exposure to make himself or herself all rounder. You are not going to get that much exposure to learn new things as much as you will get in engineering. Moreover, suppose you belong to a particular stream but you want to learn the concepts and knowledge of other streams in which you have interest.

RESOURCE PERSON

Academician

Dr.V.K.Shanmuganathan
Prof & HoD/ Aero

Dr.S.Rajendran,
Associate Professor & HOD/Mech

Mr. S. Veerakumar,
Associate Professor, ECE

JAYA ENGINEERING COLLEGE
Thiruninravur
Department of Aeronautical Engineering
AWARENESS PROGRAM ON NPTEL CERTIFICATE COURSES

Event Report

Date: 28-12-2019

Time: 9.30 A.M to 4.30 P.M

Venue: Seminar Hall, JEC

Topic: AWARENESS PROGRAM ON NPTEL CERTIFICATE COURSES

Resource Person:

1. Dr. V.K. Shanmuganathan, Prof & HoD/ Aero
2. Dr. S. Rajendran, Professor & HOD/Mech
3. Mr. S. Veerakumar, Associate Professor / ECE

Participants: Faculties, Jaya Educational Group of Institutions.

About the Program:

Our Department has organized the awareness program on NPTEL certificate courses on 28-12-2019. This program was inaugurated on 28-12-2019 at 9.30 A.M successfully at the Seminar Hall, JEC presided by The Principal, JEC and The Head, Department of Aeronautical Engineering, JEC.

Department of Aeronautical Engineering is making great efforts in imparting knowledge and skill to meet the aircraft industry expectation. The department offers theory and lab works as per Anna University syllabus through qualified faculty and staff. Aeronautical Engineering department started functioning since 2006. The department has well equipped laboratory facilities and faculty to prepare the Faculties to meet future requirement in the field of aviation.

The National Program on Technology Enhanced Learning (NPTEL) is a MOOC (Massive Open Online Course) platform of Government. This is initiated to deliver quality education to students who dream of learning from the IITs. Today, more than 600+ NPTEL

online courses are available in different science and technical branches. The best part is that NPTEL online certification course registration is free. Anybody can access any NPTEL certification course and build their skills. The NPTEL online certification course programme was primarily designed for all the engineering students and was a fixed course structure to be followed amid the undergraduate engineering program in India. To receive a certificate after completion of the online course, one needs to pay a nominal fee for NPTEL exam registration and then appear for the exam.

Dr.V.K.Shanmuganathan, HOD (AERO), gave a brief introduction on the Awareness on NPTEL Courses in engineering curriculum.

Dr.S.Rajendran and Mr. S. Veerakumar explained how much important the NPTEL Courses subject and its application field where we are using in our Engineering Field.

I would also like to thank our Assistant Professor Mr. S.Kevin Bennett & Mr. D.Barath Raj for their well organization and execution in conducting the program effectively.


Coordinator


HoD
**Head of the Department
Department of Aeronautical Engineering
Jaya Engineering College,
Thiruniravur-602024.**

ORGANIZING COMMITTEE

CHIEF PATRON:

Prof. A. Kanagaraj
Chairman,
Jaya Educational Trust

Mrs.K.Vijaya Kumari
Secretary,
Jaya Educational Trust

PATRON:

Dr.Krishnan Vijayaragavan
Principal, JEC.

CONVENOR

Dr.V.K.Shanmuganathan
Prof & HoD/ Aero

CO-ORDINATOR:

Mr. Balan R
Assistant Professor, Aero

Mr. Barath Raj D
Assistant Professor, Aero

Venue: Seminar Hall,
Jaya Engineering College.

OBJECTIVE OF THE PROGRAMME

This programme is organised to provide knowledge transfer about the skills development in writing research proposal, IPR and patenting.

To facilitate the participants about all the necessary requirements in writing research proposal, IPR and patenting.

TOPICS

1. *Writing Research Proposal*
2. *Intellectual Property Rights*
3. *Types of IPR*
4. *IPR principle*
6. *Patenting*
7. *Procedures to get Patent*

ADDRESS FOR COMMUNICATION

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ONE DAY WORKSHOP

ON

**WRITING RESEARCH
PROPOSAL, IPR AND
PATENTING**
24-11-2018

Co-ordinators
Mr.BALAN R
Mr. BARATH RAJ D

Organized by



Department of Aeronautical
Engineering
Jaya Engineering College
Thiruniravur -602024

ABOUT THE COLLEGE

Yoga Engineering College, a private technical institution approved by AICTE and affiliated to Anna University, was established in 1995 with a focus on technological innovation, entrepreneurship and character building in the Faculty. The institution has been established by Yoga Educational Trust imparting 12 excellent educations through 21 educational institutions offering courses in medicine, paramedical and arts & science besides running many schools catering the needs of the society. The college management team consists of well experienced and committed Academicians and Administrators.

ABOUT THE DEPARTMENT

Department of Aeronautical Engineering is making great efforts in imparting knowledge and skill to meet the aircraft industry expectation. The department offers theory and lab works as per Anna University syllabus through qualified faculty and staff. Aeronautical Engineering department started functioning since 2006. The department has well equipped laboratory facilities and books to prepare the Faculty to meet future requirement in the field of aviation.

ABOUT THE WORKSHOP

To provide knowledge transfer about the skills development in writing research proposal, IPR and patenting. The workshop facilitates the participants about all the necessary requirements in writing research proposal, IPR and patenting.

RESOURCE PERSON

Academician

Dr. V.K. Shanmuganathan
Prof & HoD/ Aero

Dr. P. Gurusamy
Prof & Head/ Mech

Dr. S. Rajendran
Professor, Mech.

JAYA ENGINEERING COLLEGE
Thiruninravur
Department of Aeronautical Engineering
ONE DAY WORKSHOP ON WRITING RESEARCH PROPOSAL, IPR AND PATENTING

Event Report

Date: 24-11-2018

Time: 9.30 A.M to 4.30 P.M

Venue: Seminar Hall, JEC

Topic: WRITING RESEARCH PROPOSAL, IPR AND PATENTING

Resource Person:

1. Dr. V.K. Shanmuganathan, Prof & HoD/ Aero

2. Dr. P. Gurusamy, Prof & Head/ Mech

3. Dr. S. Rajendran, Professor, Mech.

Participants: Faculties, Jaya Educational Group of Institutions.

About the Program:

Our Department has organized the Workshop on Writing Research proposal, IPR and Patenting 24-11-2018. This program was inaugurated on 24.11.2018 at 9.30 A.M successfully at the Seminar Hall, JEC presided by The Principal, JEC and The Head, Department of Aeronautical Engineering, JEC.

Department of Aeronautical Engineering is making great efforts in imparting knowledge and skill to meet the aircraft industry expectation. The department offers theory and lab works as per Anna University syllabus through qualified faculty and staff. Aeronautical Engineering department started functioning since 2006. The department has well equipped laboratory facilities and faculty to prepare the Faculties to meet future requirement in the field of aviation.

Though many workshops focus on Writing Research proposal, IPR and Patenting, very rarely the extreme needs and implementation is imparted to the faculties. Intellectual property

rights plays a significant role on trade of every nation. In this digitized world, there stands a higher risk of creative ideas getting stolen without the consent of the author. The need for strong IP laws gives an overall contribution in the economy of the respective state. IPR is one of the sources of security for intangible properties which are still open to the public and which can be quickly replicated by anyone. IP crimes have become the part and parcel of the digitized era leading to failure of business. A patent is important because it can help safeguard your invention. It can protect any product, design or process that meets certain specifications according to its originality, practicality, suitability, and utility. In most cases, a patent can protect an invention for up to 20 years. This time period starts soon as you file your patent. Ideas and Knowledge on the topics were clearly expressed by the eminent resource persons.

DR. V.K. SHANMUGANATHAN , HOD (AERO), gave a brief introduction on the basic concepts in Aeronautical Engineering. He, along with Dr.P.Gurusamy and Dr. S. Rajendran explained how much important it is to know about the IPR, Patenting and the skills of writing a research proposal.

Thanks to our Assistant Professor Mr. D. Barath Raj and Mr. R. Balan for their well organization and execution in conducting the program effectively


Coordinator


HoD

Head of the Department
Department of Aeronautical Engineering
Jaya Engineering College,
Thiruninravur-602024.

ORGANIZING COMMITTEE

CHIEF PATRON:

Prof. A. Kanagaraj
Chairman,
Jaya Educational Trust

Mrs.K.Vijaya Kumari
Secretary,
Jaya Educational Trust

PATRON:

Dr.Krishnan Vijayaragavan
Principal, JEC.

CONVENOR

Dr.V.K.Shanmuganathan
Prof & HoD/ Aero

CO-ORDINATOR:

Mr.D. BARATH RAJ
Assistant Professor, Aero

Mr. R. BALAN
Assistant Professor, Aero

Venue: Seminar Hall,
Jaya Engineering College.

OBJECTIVE OF THE PROGRAMME

This programme is organised to provide awareness to faculties on Research and Development(R&D) which is essential to develop the knowledge and skills.

To facilitate the participants about need of being aware about the technological development through R&D.

TOPICS

- 1. Agriculture and environment*
- 2. Economics and Finance*
- 3. Democracy and governance*
- 4. Education and training*
- 5. Research needs*

ADDRESS FOR COMMUNICATION

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**FACULTY AWARENESS
PROGRAM**

**ON
RESEARCH AND
DEVELOPMENT**

16-07-2016

Co-ordinators
Mr. D. BARATH RAJ
Mr. R. BALAN

Organized by



**Department of Aeronautical
Engineering**
Jaya Engineering College
Thiruniravur -602024

ABOUT THE COLLEGE

Jaya Engineering College a premier technical institution approved by AICTE and affiliated to Anna University was established in 1995 with a focus on technological innovation, entrepreneurship and character building in the Faculties. The institution has been established by Jaya Educational Trust, imparting 12 excellent educations through 21 educational institutions offering courses in medicine, paramedical and arts & science besides running many schools, catering the needs of the society. The college management team consists of well experienced and committed Academicians and Administrators.

ABOUT THE DEPARTMENT

Department of Aeronautical Engineering is making great efforts in imparting knowledge and skill to meet the aircraft industry expectation. The department offers theory and lab works as per Anna University syllabus through qualified faculty and staff. Aeronautical Engineering department started functioning since 2006. The department has well equipped laboratory facilities and faculty to prepare the Faculties to meet future requirement in the field of aviation.

ABOUT THE WORKSHOP

"To plant healthy seed in the minds of the participants about the awareness on research and development which is most essential in developing a healthy technological advancement in the field of study. The need for developing the research skills by the faculties to push the nation's technological development to the next level with the support of students is inculcated.

RESOURCE PERSON

Academician

Dr.V.K.Shanmuganathan
Prof & HoD/ Aero

Dr. Somasundaram
Professor, CSE

Mr.S. Kevin Bennett

Assistant Professor, Aero

JAYA ENGINEERING COLLEGE
Thiruninravur
Department of Aeronautical Engineering
FACULTY AWARENESS PROGRAM ON RESEARCH AND
DEVELOPMENT

Event Report

Date: 16-07-2016

Time: 9.30 A.M to 4.30 P.M

Venue: Seminar Hall, JEC

Topic: FACULTY AWARENESS PROGRAM ON RESEARCH AND DEVELOPMENT

Resource Person:

1. Dr. V.K. Shanmuganathan, Prof & HoD/ Aero

2. Dr. Somasundaram, Professor, CSE

3. Mr. S. Kevin Bennett, Assistant Professor, Aero

Participants: Faculties, Jaya Educational Group of Institutions.

About the Program:

Our Department has organized the Faculty awareness program on Research and Development on 16-07-2016. This program was inaugurated on 16-07-2016 at 9.30 A.M successfully at the Seminar Hall, JEC presided by The Principal, JEC and The Head, Department of Aeronautical Engineering, JEC.

Department of Aeronautical Engineering is making great efforts in imparting knowledge and skill to meet the aircraft industry expectation. The department offers theory and lab works as per Anna University syllabus through qualified faculty and staff. Aeronautical Engineering department started functioning since 2006. The department has well equipped laboratory facilities and faculty to prepare the Faculties to meet future requirement in the field of aviation.

R&D is a process intended to create new or improved technology that can provide a competitive advantage at the business, industry or national level. While the rewards can be very

high, the process of technological innovation is complex and risky. The majority of R&D projects fail to provide the expected financial result, and the successful projects may also pay for the projects that are unsuccessful or terminated early by the management. Like any other business, organization or field of life, Education is also facing many challenges in this rapid changing era. To cope with the challenges, development in the field of education is a must, which can be brought best through research. Research and Development activities can help to evolve existing curricula, learning materials, teaching methodologies and techniques, and current assessment systems. So, research through development leads to innovation.

DR. V.K. SHANMUGANATHAN , HOD (AERO), gave a brief introduction on the basic concepts in Aeronautical Engineering. He, along with Dr.Somasundaram and Mr. S. Kevin Bennett explained how much important it is to know about the research and development to be inculcated in the college by the support of the students.

Thanks to our Assistant Professor Mr. D. Barath Raj and Mr. R. Balan for their well organization and execution in conducting the program effectively

R. Balan
Coordinator

V.K. Shanmuganathan
HoD

Head of the Department
Department of Aeronautical Engineering
Jaya Engineering College,
Thiruvananthapuram-602024.