

Introduction:

The FDP programme aims at enhancing the academic and intellectual environment in the institution by providing faculty members with opportunities to enhance their research and teaching capabilities. This programme enables the faculties to develop competence in understanding recent advances in composite technology and topology optimization in engineering applications. This programme is an effort to make the faculty members of technical institutions, researchers and industry professionals for current development, recent trends and research potential to spread the analysis of lightweight structure using composites theory for solving practical problems.

The light weight structure through composites and application of the topology optimization method in various fields of engineering may significantly improve design cost and quality which is important in global competition. Through this programme, one can learn the concept and idea of using light weight structures for various types of engineering applications through topology optimization and apply this optimization approach to their own specific problems.

Objectives:

To create awareness among the Engineering faculties /Research Scholars /Industry professionals regarding the current development, recent trends and research potential in structural design and optimization of large and complex composite light weight structures.

Resource Persons:

Faculty & Experts from IITs/NITs, Invited Experts from various Industries, faculty from the host and Research institutions.

Contents

- Basic Theory of FEA, Composite Modeling, Plane Stress Modeling.
- Composite Optimization, Boundaries and Constraints in Topology Optimization.
- Physical Driven Design Processes for Topology Optimization.
- Product and Process Optimization for Additive Manufacturing.
- Topology and Shape Optimization with Hybrid CAD Design for Additive Manufacturing.
- Case Studies: Automotive/ Defense/ Aeronautics.
- Industry visit

Eligibility

The FDP is open to faculty members of Mechanical/ Civil/ Aeronautical/ Auto/ I&P/CS& Engg disciplines of engineering colleges, Polytechnics and scientists from R&D institutions who are interested in the field of light weight structures.

Financial Assistance

Type of Institute	Travel	Boarding & Lodging	Registration fee
AICTE Approved	To and Fro Train/Bus fare	Free (At college premises)	Rs. 500/-
Industry/ R & D Organizations	To be borne by the Participants		Rs. 1,000/-

AICTE Sponsored Two Weeks FACULTY DEVELOPMENT PROGRAMME On

“Light Weight Structures for Engineering Applications through Composites and Topology Optimization”

27th Jan to 7th Feb 2020

Application Form

Name : _____

(In block letters) _____

Designation: _____

Address : _____

Phone : _____

E-mail: _____

Educational qualification: BE / M.Tech/Ph.D.

Specialization: _____

Experience: Teaching: _____ Others: _____

Accommodation Required: Yes/No

DD No.: _____ Date: _____

Bank : _____ Amount: _____

Signature of the Applicant:

The applicant is hereby sponsored to attend the above programme, if selected.

Signature with seal of Sponsoring Authority:

Send duly filled-in application form along with DD to:

Dr. Manjunath K.

Co-Coordinator - FDP
Dept. of Mechanical Engineering
Mobile: 9886066740
Phone No: 08172-295222, 240031
Fax No: 08172-240644
Email: hassanmanju@gmail.com

The details of the programme are available in the following websites:

<http://www.gechassan.ac.in>

<http://www.gecm.in>

The amount is to be paid through DD in favor of “The Coordinator, FDP-AICTE, GEC, Hassan” Payable at Hassan. Same will be refunded on completion of the programme. Selected candidates will be intimated through email.

Accommodation facility is provided to the participants on request.

Important Dates

Last date for receipt of applications: 14/01/2020

Date of intimation regarding selection: 17/01/2020

Confirmation to participants: 20/01/2020

About the Colleges

Government Engineering College, Hassan (GECH) started in the year 2007 is affiliated to Visvesvaraya Technological University, Belagavi and approved by AICTE, New Delhi with four branches of Engineering.

Government Engineering College, Mosalehosahally (GECM) started in the year 2019 is affiliated to Visvesvaraya Technological University, Belagavi and approved by AICTE, New Delhi with five branches of Engineering.

GECH and GECM has the following broad academic activities:

- To provide the best possible educational facilities.
- To train the students for career in Engineering and Technology.
- To provide a creative atmosphere for studies, training, research & publication.
- To organize a short term courses, conferences and seminars on current technological developments as service to the community and nation, for professional working in industries and field.
- To provide leadership in curriculum design & development.

About the Department

The Department of Mechanical Engineering has well qualified and experienced faculty with research background. Several scholars are pursuing Ph.D. Department received three major and three minor R & D project grants worth more than 1.3 crores from ARDB and DRDO, DST New Delhi. The students of the department have obtained many laurels in curricular and co-curricular activities.

Organizing Committee Chairman

Dr. K.C. Ravishankar
Principal, GEC, Hassan

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AICTE, NEW DELHI



Coordinator

Dr. T. Rangaswamy

Principal, GEC, Mosalehosahally

Co-coordinator

Dr. K. Manjunath

Asst. Professor, GEC, Mosalehosahally

In Association with
Industry Partner



Organised Jointly by

Government Engineering College, Hassan

&

Government Engineering College,
Mosalehosahalli, Hassan Tq.

Venue: Government Engineering College, Hassan

Phone: 081722 – 240031, 295222 Fax: 08172-240644

<http://www.gechassan.ac.in>

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