

## Department Activities

1. The department organized 4 weeks Internship program for 7th semester Mechanical Engg., students. This program has been conducted by “Center for Advanced Technology and Training” (CATT) in association with Deepa Engineers, Harihar. The program was aimed on the topic “CNC Operations and Programming& Mechanical System Design”.



2. The department established Center for Bio Diesel Production on 6th October 2020 in Energy Conversion Engineering Laboratory for research and as an add-on program for importing knowledge to the students other than regular curriculum. Dr. Basavarajappa D N, Associate Professor looking after the center for conducting activities.



3. A Memorandum of Understanding (MoU) with Govt. Tool Room and Training Center (GTTC), Harihar for undertaking skill development, Internship and Training activities. Mr. Dileepkumar S G, Assistant Professor Coordinating with GTTC for conducting activities.



4. The CAD/CAM/CAE Laboratory conducting Internship on “Product Development Process using Hypermesh and MSC/Nastran” in association with GIT, Hubli. Mr. Harsha H M, Assistant Professor and Santhosh J G, Instructor Coordinating the Internship Program.



5. The department is conducting Internship Programme on “Two-Wheeler Electric Vehicle Design Fabrication & Testing” in association with **Rove Labs Private Limited**, Bangalore. Mr. Doddeshi B C. Assistant Professor Coordinating the programme for smooth conduction.



### **Faculty, Research Scholars and Students Publications**

1. **Amit Kumar, Rajakumar D G, Mownesh G K & Basavarajappa S**, “CFD Simulation of Producer Gas Fuelled SI Engine”, IOP Conf. Series: Materials Science and Engineering 925 (2020) 012058. *doi:10.1088/1757-899X/925/1/012058*
2. **C B Manjunath, C V Srinivasa, Basavaraju B, G B Manjunatha & Ashok R B**, “A Review on Tribological Behaviour of Natural Fiber Reinforced Polymer Composites”, IOP Conf. Series: Materials Science and Engineering 925 (2020) 012011. *doi:10.1088/1757-899X/925/1/012011*
3. **Dhotre Pavan Kumar & Srinivasa C V**, “Free vibration studies on skew sandwich plates by FEM”, IOP Conf. Series: Materials Science and Engineering 925 (2020) 012024. *doi:10.1088/1757-899X/925/1/012024*
4. **Dileepkumar S G & Bharath K N** Published a Paper entitled “Effect of Process Parameters on Tool Life Surface Roughness and Material Removal Rate on Machining a Grey Cast Iron Using Multilayer Coated Carbide Tool”. AIP Conference Proceedings 2274, 030032 (2020). <https://doi.org/10.1063/5.0022871>
5. **Ganesh D B & Rajesh K**, “Performance features enhancements and trade off study of NO<sub>x</sub> emission of diesel engine by using ternary blends of karanja - cotton seed biodiesel –diesel”, IOP Conf. Series: Materials Science and Engineering 925 (2020) 012057. *doi:10.1088/1757-899X/925/1/012057*
6. **Manjunatha G B, Bharath K N, Harsha H M, & Sivaprakash P**, “Mode-I fracture toughness evaluation of bio based short areca fibers reinforced polymer

composites”, IOP Conf. Series: Materials Science and Engineering 925 (2020) 012010. *doi:10.1088/1757-899X/925/1/012010*

7. **S G Dileepkumar, K N Bharath, B C Naveen & Anilkumar**, “A Study of Response Parameters during ECDM on Quartz Material”, IOP Conf. Series: Materials Science and Engineering 925 (2020) 012053. *doi:10.1088/1757-899X/925/1/012053*
8. **Sampath H P, Srinivasa C V & Veeresh Naik**, “Study of Quasi-Static Compression Behaviour of Hollow Tubes Made of Glass/Epoxy Composite”, IOP Conf. Series: Materials Science and Engineering 925 (2020) 012045. *doi:10.1088/1757-899X/925/1/012045*
9. **Srinivasa C V, Allamprabhu S Ani & Jyothi Prasad B M**, “Protective Coatings for Bio-Composites – A Review”, IOP Conf. Series: Materials Science and Engineering 925 (2020) 012048. *doi:10.1088/1757-899X/925/1/012048*

## Achievements:

Dr. Srinivasa C V, selected as a governing body member Education Research & Development Association, India.



Education Research & Development Association  
Road No 20, Rajiv Nagar,  
Patna - 800023 India  
WhatsApp: +91 - 79039 14271  
E-mail: erdacare@gmail.com

ERDA/MEM/128/2020  
August 22, 2020

Dr. Srinivasa C V  
Professor and Head,  
Department of Mechanical Engineering,  
GM Institute of Technology,  
Davangere, Karnataka, India

Subject: Appointment of members of the reconstituted governing body of ERDA

Dear Sir / Ma'am,

Greetings from ERDA !

We are pleased to inform you that your name has been approved as a member of the reconstituted governing body of Education Research and Development Association (ERDA), during the board meeting held on 18<sup>th</sup> August 2020.

This is to inform you that the tenure of your appointment as the member of the governing body of ERDA will be of three years, starting from July 1<sup>st</sup>, 2020, subject to extension or approval for further tenures as per the regulations of the association. It is also to convey you that this is not an office of profit.

With immense gladness, we welcome you as a member of the governing body of ERDA. We are very much sure that under your leadership and support our association will achieve all new heights and renown.

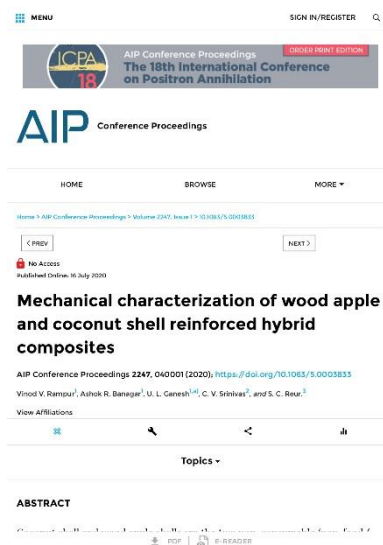
Looking forward to your best effort and support.

Warm regards,

  
R. K. Mishra  
President, ERDA

## Publications:

1. S.H. SANDEEP and C.V. SRINIVASA "HYBRID SANDWICH PANELS: A REVIEW", International Journal of Applied Mechanics and Engineering, 2020, vol.25, No.3, pp.64-85(Scopus Indexed)
2. CV Srinivasa, Vinod V Rampur, Ashok R Banagar, UL Ganesh and SC Reur " Mechanical characterization of wood apple and coconut shell reinforced hybrid composites" AIP Conference Proceedings 2247, 040001 (2020); <https://doi.org/10.1063/5.0003833>



### **Pre-Ph.D. Comprehensive Viva voce Completion:**

Mr. Basavarajappa S, Assistant Professor, Dept. of Mechanical Engg., completed his Pre-Ph.D. Comprehensive Viva voce on 31<sup>st</sup> August 2020 under VTU, Belagavi under the guidance of Dr. Manavendra G, Professor, BIET, Davanagere and Dr. S B Prakash Professor, UBDTCE Davanagere.



### **Dr. Ganesh D B Professor and Dean R&D**

VGST approved Rs. **10 lakhs** to develop Diesel Engine Testing Facilities for Biodiesel under the scheme Centre of Innovative Science & Engineering Education (CISEE)



Government of Karnataka

## Vision Group on Science and Technology

Department of Information Technology, Biotechnology and Science & Technology  
4th Gate, 7th Floor, M.S. Building, Dr. Ambedkar Veedhi, Bengaluru - 560 001  
Phone : 080-2203 2013, E-mail : visiongroup.st@gmail.com, Website : www.vgst.in

Dr.S.G.Sreekanteshwara Swamy,Ph.D.,  
Consultant

No /VGST/GRD -227/2013-14/2014-15/2015-16/2020-21/ 113

Date: 06-08-2020

To,  
The Principal,  
GM Institute of Technology,  
PB Road,Davangere-577 006.

Dear Sir,

**Subject :** Approval for the PART –A - (GRD No-227) for the purchase of equipments  
under CISEE scheme for 3<sup>rd</sup> Instalment.

\*\*\*

With reference to the approval of GRD No-227- Dr.Ganesh.D.B, Department of Mechanical Engineering, GM Institute of Technology, Davangere under the scheme,CISEE was sanctioned the project entitled "**Development of Diesel Engine Testing facilities for Locally available Biodiesel**" and released the grant of Rs 10.00 lakh as 3<sup>rd</sup> Instalment for the FY: 2015-16 through Chq.no:599098 Dt:11.05.2020 ).

The Review committee meeting held on 11/06/2019, approved for the purchase of equipments as submitted in the PART – A of GRD-227 by the Grantee Institution for the **Third and Final Instalment**. The details are as follows.

The 3<sup>rd</sup> Instalment – Non-Recurring Budget details under (ETD) for the FY: 2015-16

**Organised a Webinar on "Digital Transformation-Mechanical Engineering 2025"**





Shrilya Educational Trust (R), Bheemasamudra

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Website: [www.gmit.ac.in](http://www.gmit.ac.in)

## Webinar on

# "Digital Transformation - Mechanical Engineering 2025"

The Future Prospectives

**For 2<sup>nd</sup> PUC / HSC Passed Out Students**



Webinar Chair

**Dr. Y Vijaya Kumar**  
Principal

Webinar Convenor

**Dr. Srinivasa C V**  
Professor & Head



## Resource Persons



**Dr. Anand M Shivapuji**  
Senior Research Scientist  
Centre for Sustainable Technologies  
IISc, Bengaluru



**Mr. Raghu K T**  
Mercedes Benz R&D India  
Bengaluru



**Mr. Mallikarjuna Belagavi**  
HCL Technologies Ltd.  
Bengaluru

E Certificate will be provided for all participants

Join us on:

**Google Meet**



Registration Link:

<https://forms.gle/MEkZN3SbxABqSaBY8>

**Date: 14<sup>th</sup> August, 2020**

**Time: 10.00AM**

**Organized by: Department of Mechanical Engineering**

For Assistance Contact: Mr. Sandeep S H, Asst. Professor, 9632607001

Mr. Dileep Kumar S G, Asst. Professor, 8722688722



## DEPARTMENT ACTIVITIES

Srishyla Educational Trust (R), Bheemasamudra  
**GM INSTITUTE OF TECHNOLOGY**  
Approved by AICTE | Affiliated to VTU, Belagavi | Recognized by Govt. of Karnataka  
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**Workshop on Entrepreneurship Development Phases**  
▶ 30<sup>th</sup> Dec 2020 ▶ 3.00 PM

In association with



**INSTITUTION'S INNOVATION COUNCIL**  
(Ministry of HRD Initiative)



**NBA**  
NATIONAL BOARD OF ACCREDITATION  
CSE, ECE, CV, ME

**Organizing Committee**  
**Mr. Jayaprakash J K,**  
**Mr. Mallikarjuna V Bidari.**  
Assistant Professors

**Dr. Srinivasa C V**  
Professor & Head  
Department of Mechanical Engineering



Resource person  
**Dr. K R Phaneesh**  
Professor,  
Dept. of Mechanical Engg.,  
MSRIT, Bangalore

**Dr. Mohammed Yaseen**  
Coordinator - GMIT IIC

**Dr. Mouneshachari S**  
Convener - GMIT IIC



**Dr. Ganesh D B**  
Vice President - GMIT IIC  
Dean R&D, GMIT

**Dr. Y Vijaya Kumar**  
President - GMIT IIC  
Principal, GMIT, Davangere



Google Meet

Department of Mechanical Engineering, GMIT, Davangere  
For registration visit <http://gmit.ac.in>

The department organized a workshop on "Entrepreneurship Development Phases" in association with Institution's Innovation Council (IIC) on 30.12.2020. Resource Person: Dr. K R Phaneesh Professor, Department of Mechanical Engineering, MSRIT, Bengaluru

Slrshyla Educational Trust (R), Bheemasamudra  
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Post Box No. 4, P B Road, Davangere - 577 006 | Karnataka | INDIA

A webinar on  
**Drafting  
Quality Research Proposals**

▶ 31<sup>st</sup> Dec 2020 ▶ 3.30 PM



### Organizing Committee

**Dr. Rajakumar D G**

Professor

**Mr. Suresh Babu S U**

Assistant Professor

**Dr. Srinivasa C V**

Professor & Head

Department of Mechanical Engineering



Resource person

**Dr. Anand M  
Shivapuji**

Senior Research Scientist  
Center for Sustainable Technologies  
Indian Institute of Science,  
Bangalore

**Dr. Mohammed Yaseen**  
Coordinator - GMIT IIC

**Dr. Mouneshachari S**  
Convener - GMIT IIC



**Dr. Ganesh D B**  
Vice President - GMIT IIC  
Dean R&D, GMIT

**Dr. Y Vijaya Kumar**  
President - GMIT IIC  
Principal, GMIT, Davanagere

Department of Mechanical Engineering, GMIT, Davangere

For registration visit <http://gmit.ac.in>

The department organized one day webinar on "Drafting Research Proposal" in association with Institution's Innovation Council (IIC) on 31.12.2020. Resource Person: Dr. Anand M Shivapuji, Senior Research Scientist, Center for Sustainable Technologies, Indian Institute of Science, Bengaluru

### Faculty Achievements



Dr. Rajakumar D G Professor, received the certificate from Vidyavardhaka College of Engg., Mysuru in view of two-day International Workshop on research paper and report writing held online from 15<sup>th</sup>-16<sup>th</sup> December 2020



Dr. Rajakumar D G Professor, received the certificate from MTC Global Leadership Institute Bengaluru as "Certified Digital Teacher (CDT)" held online from 26<sup>th</sup>-27<sup>th</sup> December 2020



Dr. Srinivasa C V, Professor & Head, participated in AICTE sponsored Virtual short term training programme on "Awareness of Intellectual Property Rights for Engineers and Industrialist" from 07.12.2020 to 12.12.2020 organised by department of electronics engineering, S G Balekundri Institute of Technology, Belagavi, Karnataka

## Patents:



Dr. Rajakumar D G has published a patent titled “A Single Window Documentation Procedure for Multiple Assessment And Appraisal Requirements” bearing Application number: 202041029920 on 13.11.2020 as an interdisciplinary work for all the needs of accreditation process. This patent is supportive or helpful while satisfying multiple assessment and accreditation requirements using the concept called single repository of documents.



Controller General of Patents, Designs and Trademarks  
Department of Industrial Policy and Promotion  
Ministry of Commerce and Industry



### Application Details

APPLICATION NUMBER	202041029920
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	14/07/2020
APPLICANT NAME	1 . Dr. MOUNESHACHARI S 2 . Dr. RAJAKUMAR D.G. 3 . Dr. H GURUMURTHY 4 . Dr. NAVEEN B 5 . Dr. NAGENDRA H N 6 . Dr. GONIBASAPPA PUJAR 7 . Mr. K A MUTHAPPA 8 . Mr. RAGHAVENDRA L 9 . Mr. SHREE SHAYANA R 10 . Dr. G RATHNAKAR 11 . Dr. T P RENUKA MURTHY 12 . Dr. Virupaxappa S Betageri
TITLE OF INVENTION	A SINGLE WINDOW DOCUMENTATION PROCEDURE FOR MULTIPLE ASSESSMENT AND APPRAISAL REQUIREMENTS
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	sgowthami12@gmail.com
ADDITIONAL-EMAIL (As Per Record)	sgowthami12@gmail.com
E-MAIL (UPDATED Online)	



**Dr. Bharath K N and Prof. Shivaprakash P** are taking lead to set up Robotics lab at our institute. e-Yantra – a project hosted IIT Bombay - is a flagship project of MHRD through the National Mission on Education through ICT (NMEICT) to spread Embedded systems and Robotics education in Engineering colleges.

## Recognition

	<p><b>Mr. Harsha H M</b>, Assistant Professor, has been appointed as the Member of Board of Examiners – IP/IM/MA (Composite) Board for the academic Year 2020-21.</p>
	<p><b>Dr. Srinivasa C V</b>, Professor &amp; Head, received a “Certificate of Appreciation” for his contribution as technical session chair at International Conference on Advances in Mechanical Engineering (i – NAME 2K20) organised by Department of Mechanical Engineering, J.N.N. College of Engineering, Shivamogga, Karnataka, INDIA</p>

Dr. Bharath K N delivered talk on “Natural Fiber and its Composites: Characterization and Opportunities” webinar organized by Institution Innovation Council (IIC) and Dept. of Mechanical Engineering, Channabasaveshwara Institute of Technology, Gubbi, Tumakuru on 28<sup>th</sup> November 2020.

**Department of Mechanical Engineering**  
In Association with



**INSTITUTION'S  
INNOVATION  
COUNCIL**  
(Ministry of HRD Initiative)

**Institution Innovation Council (Ministry of HRD)**  
Organizes a Webinar on

**“NATURAL FIBER COMPOSITES;  
CHARACTERIZATION & OPPORTUNITIES”**

[Click to Register](https://forms.gle/EgkHq7w5XGUa8r8)

**Patrons:**  
Dr. Suresh D S  
Principal, CIT  
Director, CIT Group of Institutions  
Chairman – ISTE Karnataka Section  
Dr. Shantala C P  
Vice Principal & Head, Dept. of CSE, CIT  
Chairman – IET Tumakuru Local Centre  
Dr. Sridhar K N Rao  
Chief Advisor (Academics & Research)  
Professor, Dept. of CSE, CIT

**Organizing Chairman:**  
Dr. Giridhar S Kulkarni  
HOD, Dept. of ME, CIT  
Hon. Secretary – IET Tumakuru Local Centre

**Saturday / Nov / Time**  
**28<sup>th</sup> / 2020 / 10 am**



**Dr. Bharath K N**  
Ph.D, Post Doc (USA)  
Associate Professor  
GMIT, Davangere

**Who can attend:** Students and faculties from Mechanical Engineering  
E-Certificate will be provided to all registered participants

**Coordinators:**

Dr. Ramesha V Professor, Dept. of ME, CIT Mobile: 9113281345	Dr. Siddeshkumar N G Associate Professor, Dept. of ME, CIT Mobile: 9008154814	Mr. Chikkannaswamy V M Assistant Professor, Dept. of ME, CIT Mobile: 9964433115
	Mr. Ravi N S Assistant Professor, Dept. of ME, CIT Mobile: 9343291430	

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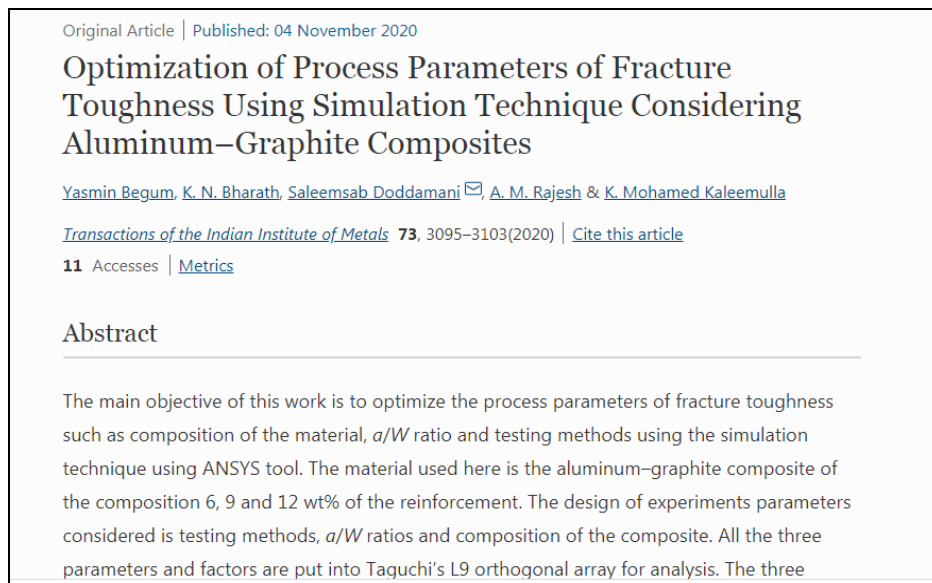




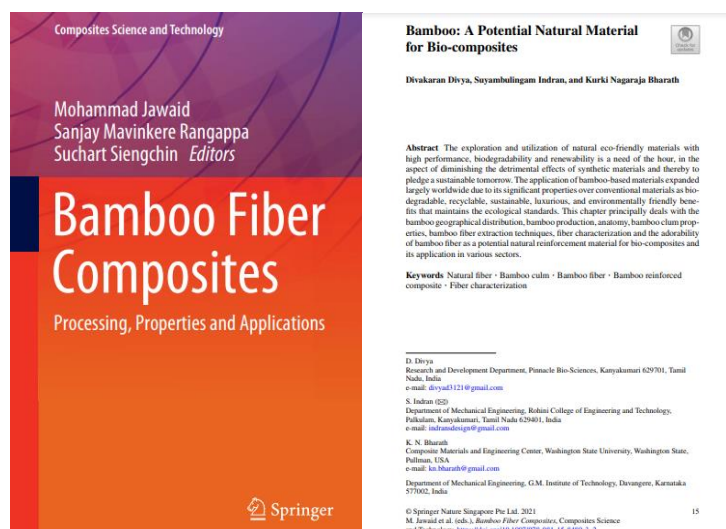


## Publications:

1. **Dr. Bharath K N**, Associate Professor, published a paper entitled “Optimization of Process Parameters of Fracture Toughness Using Simulation Technique Considering Aluminum–Graphite Composites” Transactions of the Indian Institute of Metals (Springer Publication), November 2020. (Impact Factor – 1.2, Scopus Indexed)



2. **Dr. Bharath K N** published a book chapter entitled “Bamboo: A Potential Natural Material for Bio-composites” in Bamboo Fiber Composites book (Springer Publication).



**Dr. Bharath K N** attending FDP on "3D printing and Design" and scheduled on 9th to 13th November 2020 at Indian Institute of Technology – Dharwad (IIT- Dh). The FDP is sponsored by AICTE Training and Learning (ATAL) Academy.



## AWARDS

1. **Mr. Allama Prabhu Somashekar Ani** of eight semester mechanical engineering student won **“Inspiring Student Award for Mechanical Engineering”** awarded by **Madras Journal Series Pvt. Ltd. Chennai, India**



2. **Mr. Ashok R. Banagar**, research scholar, won **“Inspiring Senior Research Fellow Award”** by **Madras Journal Series Pvt. Ltd. Chennai, India**



3. **Dr. Srinivasa C V**, Professor & Head, won **“Inspiring Professor Award”** by **Madras Journal Series Pvt. Ltd. Chennai, India**



4. Dr. Srinivasa C V, Professor & Head, has won **National Eminent Researcher Award 2020**, by International Institute of Organized Research, Chandigarh (UT) India



5. Dr. K N Bharath, Associate Professor, Dept. of Mechanical Engineering), is a reviewer for International Journal of Cleaner Production (Elsevier Publication, Impact factor: 7.246) in recognition of the review contributed to the journal.



6. Dr. K N Bharath (Associate Professor, Dept. of Mechanical Engineering) delivered expert talk on "Natural Fiber Composites" in **Five-day virtual faculty development**

program on **“Materials Processing & Characterization: Current Perspectives (MPCCP-2020)”** scheduled from 31<sup>st</sup> August 2020 to 04<sup>th</sup> September

**BANGALORE INSTITUTE OF TECHNOLOGY**  
(Affiliated to Visvesvaraya Technological University, Belagavi, Recognized by AICTE, New Delhi)  
K.R. Road, V.V. Puram, Bangalore- 560 004.

**DEPARTMENT OF MECHANICAL ENGINEERING**  
(Accredited by NBA)

**Five Day Virtual Faculty Development Program**  
On  
**Materials Processing & Characterization: Current Perspectives (MPCCP-2020)**  
31<sup>st</sup> August - 04<sup>th</sup> September 2020

Organised By  
**INDUSTRY INSTITUTE INTERACTION CELL** | **RESEARCH AND DEVELOPMENT CELL**  
In association with  
**IWS** **INDIAN WELDING SOCIETY**

**Resource Persons**

Session I : 10:00 AM - 11:00 AM      Session II : 11:30 AM - 12:30 PM

**DAY 1** 31<sup>st</sup> AUG

Dr. H.V.S. Prasad, Ph.D.      Dr. Udaykumar A. Sr. Principal Scientist

**DAY 2** 01<sup>st</sup> SEP

Dr. Praveen Narayan      Dr. Ramesh M.R.

**DAY 3** 02<sup>nd</sup> SEP

Dr. Mohammed Shamsul      Dr. Shamsul H. Khan

**DAY 4** 03<sup>rd</sup> SEP

Prof. Carlo      Dr. Anurath H.

**DAY 5** 04<sup>th</sup> SEP

Dr. Jagdish      Dr. Anand Kumar S.

7. **Mr. Allama Prabhu Somashekar Ani** bearing USN: 4GM4GM16ME008, **Mr. Darshan D** bearing USN: 4GM16ME016 and **Mr. Nagarjuna A S** bearing USN: 4GM17ME414 scored 90% in the eight semester VTU Exams conducted during the month of August 2020

<b>Allama Prabhu S Ani</b> Marks:630/700 (90%)	<b>Darshan D</b> Marks:630/700 (90%)	<b>Nagarjuna A S</b> Marks:629/700 (89.85 %)

**Publications :**

Ashok, R.B., Srinivasa, C.V. & Basavaraju, B. Study on morphology and mechanical behavior of areca leaf sheath reinforced epoxy composites. *Adv Compos Hybrid Mater* **3**, 365–374 (2020). <https://doi.org/10.1007/s42114-020-00169-x>



Original Research | Published: 03 September 2020

## Study on morphology and mechanical behavior of areca leaf sheath reinforced epoxy composites

R. B. Ashok , C. V. Srinivasa & B. Basavaraju

*Advanced Composites and Hybrid Materials* **3**, 365–374(2020) | [Cite this article](#)

27 Accesses | [Metrics](#)

### Abstract

Nowadays, current inventions are concentrated on the use of natural fibers which are biodegradable, eco-friendly, and easily available constituents such as fibers of hemp, sisal, coconut viz. viz. along with polymers to achieve greater strength with reduced weight of composites. Green composite materials are becoming interested in their applications in the fields of manufacturing, aerospace, sport, households, and so on. In the present work, the