# 2.1.2(C) - Mapping of content beyond syllabus with the POs & PSOs

# Annexure II

**The report of Content beyond syllabus**

# DEPARTMENT OF MECHANICAL ENGINEERING

## A report

## On

## "Bio-Materials & Technology: Recent Trends & Applications in Medical Field"

**In association with**

## INDIAN SOCIETY OF MECHANICAL ENGINEERS STUDENT CHAPTER

**On Wednesday, 15th July 2020 at 11.00 AM**

**Resource Person**

**Dr. Hanumantharaju H G.,**
**Associate Professor**
**Dept of Mechanical Engineering**
**U V C E, Bengaluru**

V.V. Sangha's

RAO BAHADUR Y MAHABALESWARAPPA ENGINEERING COLLEGE Ballari

# Invitation

## DEPARTMENT OF MECHANICAL ENGINEERING

**Cordially invites you for the inauguration of**

## ONE DAY WEBINAR

**ON**

## "Bio-Materials & Technology": Recent Trends & Applications in Medical Field

**In association with**

**INDIAN SOCIETY OF MECHANICAL ENGINEERS**

**Resource Person**

**Dr. HANUMANTHARAJU. H. G,**
Department of Mechanical Engg, UVCE, Bengaluru

**On Wednesday, 15th July 2020 at 11.00 AM**

**Presided by**

**Sri J S BASAVARAJ**
Hon'ble Chairman, RYMEC, Ballari

***In the presence of***

**Sri ARAVATAGI PRABHU**
GB Member, RYMEC, Ballari

**Sri K M SHIVAMURTHY**
GB Member, RYMEC, Ballari

**Dr. K VEERESH**
Principal, RYMEC, Ballari

**Dr. KORI NAGARAJ**
Convener & HOD, RYMEC, Ballari

**Dr. A THIMMANA GOUDA**
Convener, RYMEC, Ballari

**Dr. VEERABHADRAPPA ALGUR**
Organizer, RYMEC, Ballari

**ALL ARE CORDIALLY INVITED**

**Organised by**

Teaching & Non-Teaching Staff
Mechanical Engineering Department, RYMEC, Ballari

Veerabhadrappa Algur <veereshalgur@rymec.in>

# Webinar

2 messages

**Dr Hanumantha Raju** <hghuvce@gmail.com> Thu, Jul 9, 2020 at 11:43 AM
To: veereshalgur@rymec.in

Sir,
Good morning,as per invitation of your msg,I am happy to accept the invitation as SPEAKER for Webinar on any day on 13th or 14th or 15th july at 11am on topic:"Bio-Materials&Technology":Recent Trends & Application in Medical Field.
Here with I am enclosed my CV for your reference.
In this webinar ,topics cover are;Introduction,scope,need,importance of Biomaterials,it's recent trends,Applications in medical field,research activities,future scope in upcoming research etc.How a Mechanical/Materials engineer can contribute the medical Field.
1hr talk&following 30 min Questionnaire.
Pl reply for any clarification.

-------- Forwarded message --------
From: **Abhishek BS** <abhishekbs213@gmail.com>
Date: Thu, 9 Jul 2020, 11:21
Subject: Fwd: Revised_Final Bio Data
To: <hghuvce@gmail.com>

-------- Forwarded message --------
From: **Abhishek BS** <abhishekbs213@gmail.com>
Date: Sat, 22 Feb, 2020, 8:14 pm
Subject: Revised_Final Bio Data
To: <hghuvce@gmail.com>

**Revised_FinalBioData.pdf**
765K

**Veerabhadrappa Algur** <veereshalgur@rymec.in> Thu, Jul 9, 2020 at 3:24 PM
To: Dr Hanumantha Raju <hghuvce@gmail.com>

Thank you sir, for accepting our invitation.
[Quoted text hidden]

V.V. Sangha's

# Rao Bahadur Y. Mahabaleswarappa Engineering College, Ballari

## Department of Mechanical Engineering

In Association with

## Indian Society of Mechanical Engineers

## Student Chapter

**Organizes Webinar on**

*Date: 15th July 2020*
*Time: 11:00AM to 12:30PM*

**Platform**

Google Meet

# "Bio-Materials & Technology": Recent Trends & Applications in Medical Field

**Resource Person**

**Dr. Hanumantharaju. H. G,**

Associate Professor, Department of Mechanical Engg, UVCE, Bengaluru

**Conveners: Dr. Kori Nagaraj, Prof & Head**
**Dr. A Thimmana Gouda, Professor**

**Organizer: Dr. Veerabhadrappa Algur,**
**Associate Professor**

| Dr. Kori Nagaraj | Dr. K Veeresh | Sri J S Basavaraj |
|---|---|---|
| Professor & HOD | Principal | Chairman |

Stay Home Stay Safe

## 1. CONTENTS


| Sl.No | Description | Page No. |
|---|---|---|
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| 2 | Title, Objective and Outcomes of webinar: | 2 |
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| 4 | Topics and Presentation slides | 4 |
| 5 | List of participants attended | 7 |
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| 7 | Conclusion Remarks | 16 |
| 8 | Appreciation letter to Resource person | |
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## 2. Title, Objective and Outcomes of webinar:

**Title: "Bio-Materials & Technology: Recent Trends & Applications in Medical Field"**

### Objective:

To overview of need, importance of Bio-materials, its recent trends, applications in medical field, research activities and future scope in upcoming research.

### Outcomes:

1. Illustrate the need and limitations of materials used in medical field as implants.
2. Contribution of Mechanical/Materials Engineers in medical field and encourage the UG/PG students to take up challenges in the development which can used as Biomaterials.

### CO-PO Mapping:

| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | 3 | | | | | | | | | | | 2 | | 3 |
| CO2 | 3 | | | | | | | | | | | 2 | | 3 |

### ACTION TAKEN

| Sl. No | Gap | Action taken | Date-Month-Year | Recourse Person with designation | % of students attended | Relevance to PO, PSO's |
|---|---|---|---|---|---|---|
| 01 | Material science | One day webinar on Bio-Materials & Technology: Recent Trends & Applications in Medical Field | 15th July 2020 | Dr. Hanumantharaju H G<br>Associate Professor<br>Dept of Mechanical Engineering<br>U V C E, Bengaluru | Students & faculty | PO1, PO12 PSO2 |

**3 About Resource Person**

Name: Dr. Hanumantharaju H G

Designation: Associate Professor

Qualification: M.Tech. Ph.D

Experience: 27 Years

E-mail: madhavmurthy.mech@bmscc.ac.in

**Dr. Hanumantharaju H G**, currently working as an **Associate Professor**, Dept of Mechanical Engineering, UVCE, Bengaluru.

Sir has done Ph.D in Advanced materials (Bio materials) Investigations on alternative materials for Human orthopaedic implants from UVCE, Bengaluru

Sir having more than 7 years in industry experience , 20 years in teaching with various cadre.

Under sir guidance two research scholars were awarded the Ph.D, one research scholar submitted the thesis and five were in a pipe line

Sir has got 12.40 Lakhs funds from Naval Research Board, New Delhi and completed & submitted the report.

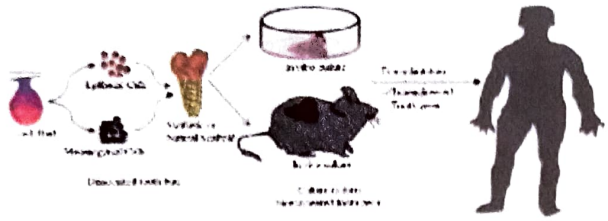
Sir has got best paper award in Team tech 2007, delivered more invited talks, 3rd party inspections, authored two e-books, chaired the session as judge, expert committee member of AICTE,

Sir has published more than 55 in International conference proceedings, peer reviewed journals.

## 4. Topics and Presentation slides

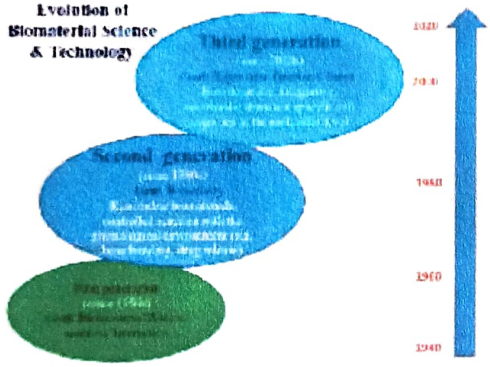
### What is a Biomaterial?

**A material intented to interface with biological systems to evaluate, treat, augment or replace any tissue, organ or function of the body.**



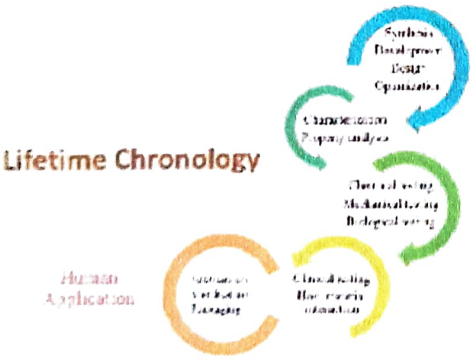
### Why biomaterials ?

- ✓replacement of body part that has lost function (joint, hip, heart)
- ✓correct, diminish, relieve (cataract)
- ✓improve (artificial pacemaker, stent)
- ✓social (healing, cosmetic, abortion, birth control, fertility)



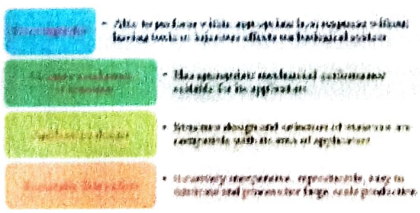

### HISTORY OF BIOMATERIALS

- Romans, Chinese used gold in dentistry over 2000 years ago
- 1860's: Lister develops aseptic surgical technique
- early 1900's: Bone plates used to fix fractures
- 1938: first total hip prosthesis (P. Wiles)
- 1940's: Polymers in medicine. Poly(methyl methacrylate) (PMMA) bone repair, cellulose for dialysis; nylon sutures
- 1952: Mechanical heart valve
- 1958: Cemented (PMMA) joint replacement
- 1960: First commercial heart valves

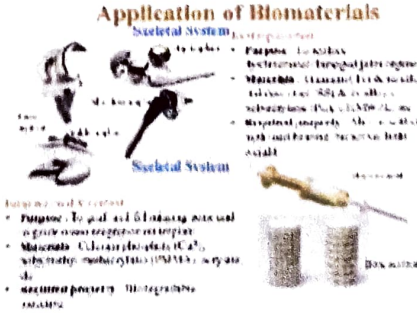


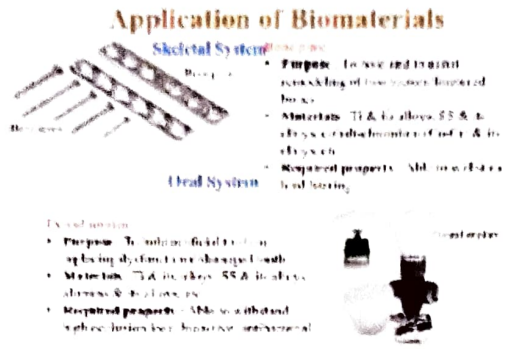

### Materials Classification

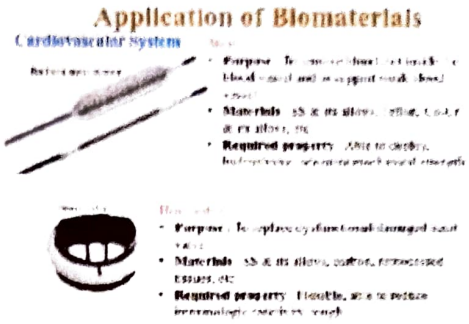
### Biomaterials Properties

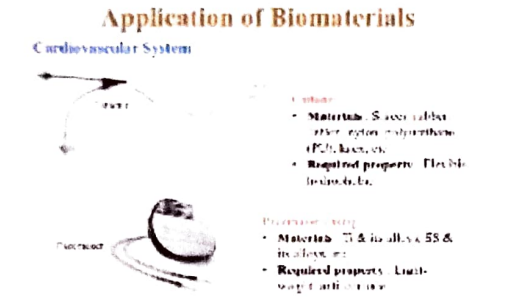


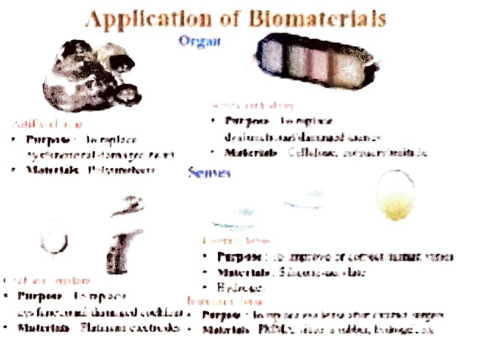
### Application of Biomaterials

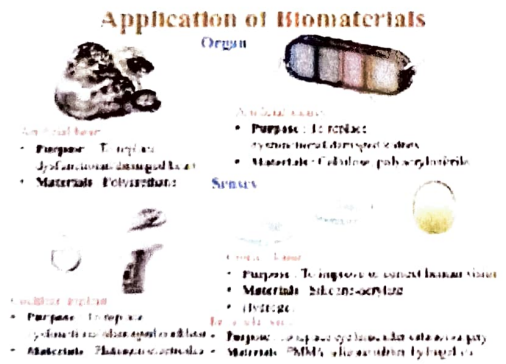


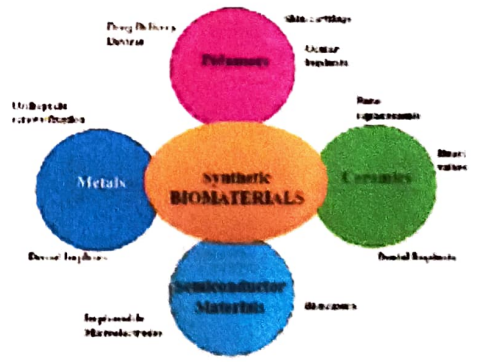

Application of Biomaterials
Skeletal System
Oral System

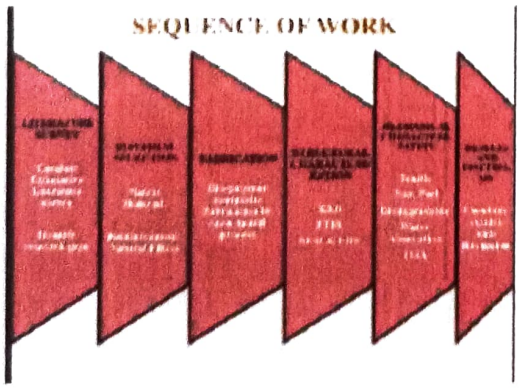

Application of Biomaterials
Cardiovascular System


Application of Biomaterials
Cardiovascular System


Application of Biomaterials
Organ
Senses


Application of Biomaterials
Organ
Senses


Polymers
Metals
Synthetic BIOMATERIALS
Ceramics
Semiconductor Materials

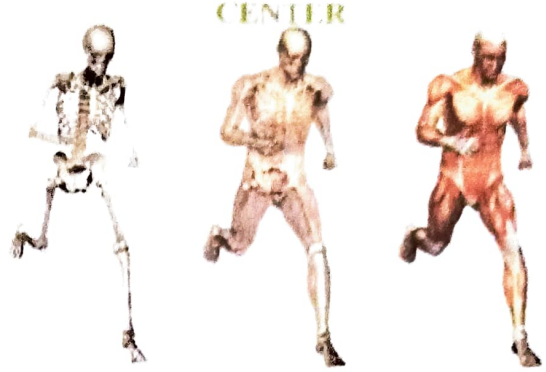

SEQUENCE OF WORK

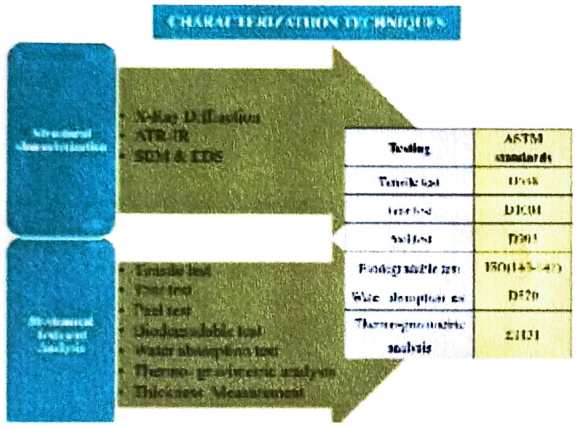
Materials and Fabrication Methods

## Advanced in Biomaterials

- 3D growth of cells and tissues reconstruction
- Biosensors, biomimetic and smart devices
- Drug delivery and targeted delivery
- Hybrid organs
- Advanced processing techniques
- Advanced development of materials with bioactive, biodegradable, antibacterial, etc, properties

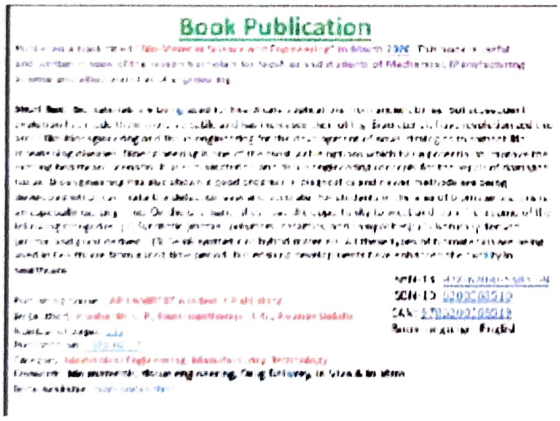
## CURRENT WORK AT LVCER & D CENTER

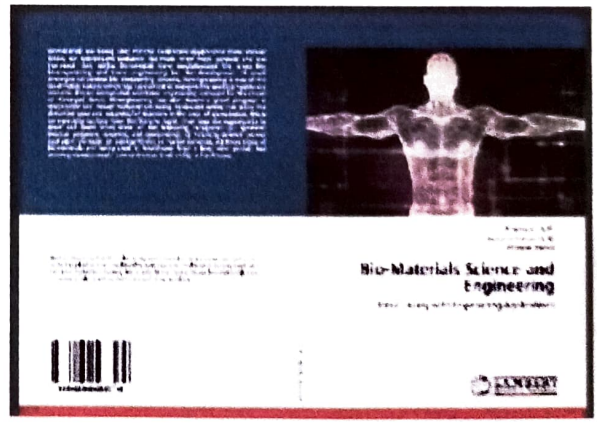





**International conference Publications**

| Sl No | Title of the paper | Name of the Conference | Year of publication | Organization |
|---|---|---|---|---|
| 1 | Characterization And Analysis Of Physico Thermal Properties Of Sisal | International Conference On Advanced Materials And Applications (ICAMA 2016), June 15-17, 2016, Elsevier Materials Today Proceedings Bengaluru, Karnataka India | 2016 | ELSEVIER |
| 2 | Preparation And Characterization Study Of Biodegradable Polymer Composite. | 2nd International Conference On Materials Technology And Management (ICMTM 2018), Punjab University Campus Chandigarh, 06 Sep 2018 | 2018 | Conference Proceedings Science |
| 3 | Synthesis and characterization of Chemically treated natural fiber Reinforced polymer composite | 2nd International Conference, ICPU 2019 AIP Conference Proceedings 2019 020012 (2019); | 2019 | AIP Publishing |



## 5. List of Participants

| Sl.N | Name of the Participant | Designation | Name of the Institution/Organization | Place |
|---|---|---|---|---|
| 1 | KARTHIKEYAN A. S. | RESEARCH SCHOLAR | UVCE | BANGALORE |
| 2 | Sanjay s | Mech | Rymec | Ballari |
| 3 | RAHUL DAVID B | Student | Rymec | Bellary |
| 4 | Sangamesh B Herakal | Asst.Prof | Holy Mary Institute of Technology and Science | Hyderabad |
| 5 | PRASHANTHA H A | Lecturer | Government Polytechnic | Devadurga |
| 6 | M Chaitanya | Student | RAO BAHADUR Y MAHABALESWARAPA ENGINEERING COLLAGE | Ballari |
| 7 | BASAVA PRAKASH B | AP | RYMEC | BALLARI |
| 8 | METI. BHARATHI | Assistant professor | Dr AIT, Mallathalli, Bengaluru-56 | Bengaluru |
| 9 | Arunkumar Bheemanalli | Asst. Professor | Shetty Institute of technology | Kalaburagi |
| 10 | VEENAPANI R | Lecturer | Government polytechnic Bagepalli | Bangalore |
| 11 | BALU RAJU | STUDENT | RAO BAHADUR Y. MAHABALESHWARAPPA ENGINEERING COLLEGE BELLARY-583104 | RAICHUR |
| 12 | Murali R | Student | UVCE | Bangalore |
| 13 | Dr. Muralidhar Singh M | Assistant professor | Madanapalle Institute of Technology & Science | Madanapalle |
| 14 | RAKESH KUMAR MOHANTY | Asst. Professor | DRIEMS POLYTECHNIC | Cuttack |
| 15 | Preeti R Goudar | Lecturer | B V V S Polytechnic (Autonomous), Bagalkot | Bagalkot |
| 16 | Dr. Prabhudev M S | Selection Grade Lecturer | Government Polytechnic Kalgi | Kalgi |
| 17 | Mallikarjuna H | Selectoon Grade Lecturer | STJ Polytechnic | Harapanahalli |
| 18 | SATHISH R | Student | Maharaja institute of technology thandavapura | Nanjangud |
| 19 | Shaikh Hyder | Student | Maharaja institute of technology Thandavapura | Mysore |
| 20 | Jayanth R | Student | Rao Bahadur Y Mahabaleshwarappa Engineering College | Ballari |
| 21 | Yashwanth Lokare | Student | R.Y.M.E.C | Ballari |
| 22 | Praveenkumar K Jamagav | Student | UVCE Bangalore | Bangalore |
| 23 | Shilpashree B C | Lecturer | S J Govt Evening Polytechnic Bangalore | Bengaluru 560001 |
| 24 | Rakshith s | Mtech student | Uvce | |

| | | | | |
|---|---|---|---|---|
| 25 | Bhoomika H G | student | Maharaja institute of technology thandavapura | Mysore |
| 26 | Sharvani Shekar CV | Student | Maharaja Institute of Technology Thandavapura | Mysuru |
| 27 | Yogesh G N | Student | Maharaja Institute of Technology | Thandavapura |
| 28 | Banakara Nagaraj | Assistant professor | Ballari institute of technology and management | Ballari |
| 29 | SRINIVAS | student | East West institute of technology | Banglore |
| 30 | Sudarshana K | M.Tech STUDENT | UVCE | Bangalore |
| 31 | Meghashree K A | PG student | University Visvesvaraya College of Engineering | Bangalore |
| 32 | Bp thrilok | student | Maharaja institute of technology,thandavapura. | Mysore |
| 33 | MARUTHI REDDY K | Student | RYM ENGINEERING COLLEGE BELLARY | Korlagundi |
| 34 | ANILKUMAR N MAROL | LECTURER | RURAL POLYTECHNIC HAUNSABAVI | HAVERI |
| 35 | Praveen s basannavar | PG student | UVCE BENGALURU | Haveri |
| 36 | Manjunatha | Student | UVCE | Bangalore |
| 37 | Anand K Kadappanavar | Lecturer | Sri C B Yeligar Polytechnic | Dharwad |
| 38 | SHANTHAMURTHY | SL.grade lecturer | S.E.S aided polytechnic.siruguppa. | Siruguppa |
| 39 | Mr. Virupaksha Gouda H | Mechanical Engineering | RYM Engineering College, Ballari-Karnataka | Ballari |
| 40 | PRASHANTH KUMAR A P | Head of the Department | Aryabharathi Polytechnic | Tumakuru |
| 41 | SANJAY S J | Assistant Professor | Basaveshwar Engineering college Bagalkot | Bagalkot |
| 42 | Mr. PRASANTA KUMAR SAHOO | ASSISTANT PROFESSOR | DRIEMS POLYTECHNIC, CUTTACK | CUTTACK |
| 43 | VINAYAK. S. NAIK | SELECTION GRADE LECTURER | TSIT POLYTECHNIC, HUBBALLI | HUBBALLI |
| 44 | Smitesh Patravali | Assistant Professor | SDM COLLEGE OF ENGINEERING AND TECHNOLOGY | Dharwad |
| 45 | K SHASHIDHAR | Mechanical engineering | Sir m visvesvaraya institute of technology | Bangalore |
| 46 | Vittal Gundi | Student | Rao Bahadur Y mahabaleshwarappa Engineering College Ballari | Ballari |
| 47 | SOMASHEKHAR SHANKARAYYA PUJAR | LECTURER | B.V.V.S. POLYTECHNIC (AUTONOMOUS) BAGALKOT, KARANATAKA -587101 | BAGALKOT |
| 48 | BIGHNESWAR BALIYARSINGH | Ast. Prof. | College of Engineering and Technology, | Bhubaneswar, Odisha |
| 49 | DURGA VENKATA PRASAD M | Student | RYMEC | Ballari |
| 50 | RAHUL KUMAR | STUDENT | MAHARAJA INSTITUTE OF TECHNOLOGY | MYSORE |

| | | | | |
|---|---|---|---|---|
| | | | (THANDAVAPURA) | |
| 51 | K. SRI RAM VIKAS | Assistant professor | PVP SIDDHARTHA INSTITUTE OF TECHNOLOGY | Vijayawada |
| 52 | Rashmi Rekha Mishra | Asst.Prof. | College of Engineering and Technology, Bhubaneswar, Odisha | Bhubaneswar, Odisha |
| 53 | Chandrashekar Ankad | Assistant Professor | Sanskrithi School of Engineering | Puttaparthy |
| 54 | Vikas | Student | RYMEC | Raichur |
| 55 | Mr mohan kumar k.s | Student | Maharaja institute of technology Thandavapura | Mandya |
| 56 | Mr. CHAPPELI SAI KIRAN | Assistant Professor | CVR COLLEGE OF ENGINEERING | Hyderabad |
| 57 | UDAYKIRAN S L | Student | RYMEC | Ballari |
| 58 | P.Pavan Kumar | Student | RYMEC | Bellary |
| 59 | YASHAS R HEGDE | STUDENT | RAO BAHADUR Y MAHABALESHWARAPPA ENGINEERING COLLEGE | BALLARI |
| 60 | Babu Reddy | Assistant Professor | VTU's Center for Postgraduate Studies, Kalaburagi | Kalaburagi |
| 61 | Praveen Kolur | Assistant Professor | Basaveshwar Engineering College(Autonomous) | Bagalkot |
| 62 | Bala Shashank B | Student | RYMEC | Sindhanur |
| 63 | MOHAMMED ADNAN PASHA | Student | RYMEC | Ballari |
| 64 | HAMSA REKHA S D | Assistant professor | Dr. Ambedkar institute of technology | Bangalore |
| 65 | Sujata Priyambada Mishra | Asst professor | RVCE Bangalore | Bangalore |
| 66 | Gowri Tanay Reddy S | Student | Uvce | Bengaluru |
| 67 | Santosh Janamatti | Assistant professor | Ballari Institute of Technology and Management | Ballari |
| 68 | Narottam dutt upadhyay | Assistant professor | Vikrant institute of technology and management | GWALIOR |
| 69 | Sk. Jani | Student | CMRTC | Hyderabad |
| 70 | Chinthalapudi venkata Lakshmi janardhan | Student | Narasaraopeta engineering college | Narasaraopet, Andhra Pradesh |
| 71 | Harshith | Student | Yenepoya Institute of Technology | Mangalore |
| 72 | S.MURUGANANTHAM | Assistant Professor / Mechanical Engineering | NANDHA ENGINEERING COLLEGE | ERODE |
| 73 | SEELAMANTHULA VIJAY | Student | Ideal institute of technology | Kakindada |
| 74 | S Naveen | Assistant Professor | Proudhadevaraya Institute of Technology | Hosapete |
| 75 | ILLA PARVATHIDEVI | Student | IDEAL INSTITUTE OF TECHNOLOGY | Kakinada |
| 76 | Manu.a.s | Student | Rymec | Bellary |

| | | | | |
|---|---|---|---|---|
| 77 | Mr. DINESH BABU R | Assistant Professor | RAJIV GANDHI COLLEGE OF ENGINEERING AND TECHNOLOGY | Pondicherry |
| 78 | Shashank.R | Mysuru | Vidya vikas Institute of engineering and technology Mysuru | Mysuru |
| 79 | SANA SRIRAM | Student | IDEAL INSTITUTE OF TECHNOLOGY | KAKINADA |
| 80 | Rajendra Prasad J M | Engineering student | RYMEC BALLARI | Karnataka |
| 81 | Nagaveni.p | Student | HKES SLN COLLEGE OF ENGINEERING | Yermarus, Raichur |
| 82 | MRITYUNJAY KUMAR | Student | NALANDA COLLEGE OF ENGINEERING CHANDI NALANDA BIHAR | CHANDI NALANDA |
| 83 | Abhishek.N | Student | HKES SLN enngernering college | Raichur |
| 84 | SHRIKANTH | Mechanical engineering | Rao Bahadur y mahabaleswarappa engineering college contonment ballari | Koppal |
| 85 | Chakrasali Chandrakumar | Assistant Professor | PDIT-Hosapete | Hosapete |
| 86 | Yogeesh | Student | Yenepoya institute of technology | Moodbiri |
| 87 | SAMEER BASHA | Student | Rao bahadur y mahabaleswarappa engineering college | Ballari |
| 88 | ANUSHA VANACHARLA | STUDENT | SRINIVASA INSTITUTE OF ENGINEERING AND TECHNOLOGY | AMALAPURAM |
| 89 | Shailesh khandre | Trainee engineer | VFS TECHNOLOGY PVT LTD | Bangalore |
| 90 | SAMEERA SULTANA K | Student | Rao bahadur y Mahabaleshwarappa engineering college | Ballari |
| 91 | Ramu B | Student | UVCE - Bangalore | Hosakote |
| 92 | Vaibhavi D | PG Student | UVCE | Bangalore |
| 93 | IRANNA NEERAJIDDI | Student | Uvce Bangalore | Laxmeshwar |
| 94 | Umesh D Hadimani | H O D | K L E Society's Polytechnic, Mahalingpur | Mahalingpur |
| 95 | Surya Babu G | Student | Rao Bahadur Y Mahabaleshwarappa Engineering college Ballari | Karnataka |
| 96 | Mr. Siddesh G M | PG student (Production Management) | RYMEC, Ballari | Ballari |
| 97 | GAVISIDDESHA PATTANASHETTY | ASSISTANT PROFESSOR | BELLARY INSTITUTE OF TECHNOLOGY AND MANAGEMENT BELLARY | BELLARY |
| 98 | Khalandar azad | Student | Rymec, ballari | Ballari |
| 99 | MUGILAN T | Research Scholar | Government College of Technology, Coimbatore | Coimbatore |
| 100 | CHAITANYA PAWAN KALYAN KADALI | Student | IDEAL INSTITUTE OF TECHNOLOGY, KAKINADA | Kakinada |

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| 102 | Jyotiprakash Das | Research Associate | Indus University | Ahmedabad |
| 103 | Suprabhat Maity | Assistant Professor | B. P. Poddar Institute Of Management and Technology | Kolkata |
| 104 | Krishna Kishore Mugada | Assistant Professor | Gayatri Vidya Parishad College of Engineering | Vizag |
| 105 | ASHOK KUMAR R | ASSISTANT PROFESSOR | SMK FOMRA INSTITUTE OF TECHNOLOGY | CHENNAI |
| 106 | K. Manikandan | Student | Dr. Mahalingam college of engineering and technology | Pollachi |
| 107 | B N V SRINIVAS | Assistant Professor | SRI VASAVI ENGINEERING COLLEGE | Tadepalligudem |
| 108 | Vineet Rajesh Shriwas | STUDENT | Jagadambha College of engineering and technology yavatmal | Yavatmal |
| 109 | Jabinth J | Assistant Professor | RAMCO INSTITUTE OF TECHNOLOGY | Rajapalayam |
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| 111 | Mr KARTHIK MANI KS | Student | Pondicherry University | Tiruppur |
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| 113 | Dr. MALLEBOYENA MASTANAIAH | Dean / Academics & HOD-MECH | Dr. Samuel George Institute of Engineering and Technology | Markapur |
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| 115 | Manoritha A | B.E | Dr.AIT | Bangalore |
| 116 | Kaustubh N. Kalaspurkar | Assistant Professor | Jagadambha College of Engg. & Tech. Yavatmal | Yavatmal |
| 117 | Nithin saikumar | Student | Government polytechnic karatagi | Karatagi |
| 118 | Jayaprakash.CH | Diploma mech engg | Gpt karatagi | Karatagi |
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| 129 | Venugopal S N | Student | RYMEC | Ballari |
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| 134 | Anil Kumar | Mechanical | RYMEC | BELLARI |
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| 143 | M.Vijay | III.BSC,MATHEMATICS | KONGU ARTS AND SCIENCE COLLEGE (AUTONOMOUS),ERODE | ERODE |
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| 145 | Suraj Vasant Yadahalli | Assistant professor | Ballari institute of technology and management | Bellary |
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| 147 | Bhojraj M | Mechanical engineering | Ballari Institute of Technology and Management | Sandur |
| 148 | Joshua Haniel | Student | Rao Bahadur Y Mahabaleshwar Engg college Ballari | Ballari |
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| 151 | Mr.C.NATESAMURTHI | Associate Professor | Bharathidasan Engineering College, Nattrampalli, Tirupattur Dt. | Tirupattur |
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| 158 | Lakshmana Naik T K | AP | R Y M Engg College | Bellary |
| 159 | Mohan Kumar K | Assistant Professor | M V J College of Engineering, Bangalore | Bangalore |
| 160 | MAHENDRA K C | Asst Professor | Rao Bahadur Y Mahabaleswarappa Engineering College BALLARI KARNATAKA | Ballari |
| 161 | Vijaykumar Chalwa | Assistant professor | EWCE | Bengaluru |
| 162 | VIVEK PRAKASH KOLHE | LECTURER | TMES J T MAHAJAN POLYTECHNIC NHAVI MARG FAIZPUR | FAIZPUR |
| 163 | Samuel Dayanand | Assistant Professor | Government Engineering College Raichur | Raichur |
| 164 | KUMARAMURUGAN S | SENIOR LECTURER | LAPC kovilpatti | Kivilpaatti |
| 165 | Ashish Bhushan singh | Student | Bapuji Institute of Engineering and Technology | Davangere |
| 166 | SUNITHA V | Assistant Professor | Government Engineering College, Ramanagar | Ramanagar |
| 167 | Dr K Mohamed Kaleemulla | Professor | University BDT College Of Engineering | DAVANAGERE |
| 168 | Niranjan Hugar | Assistant Professor | MVJ College of Engineering | Bengaluru |
| 169 | Ambarish N | Technical Officer | UVCE | Bangalore |
| 170 | Amey | Prof | Mumbai | Mumbai |
| 171 | Patil Shrinivas Kiran | Assistant Professor | MIT College of Railway Engineering and Research, Barshi | Solapur |
| 172 | Mr.Naveen Kumar pattar | Assistant professor | Sri Krishna institute of technology | Bangalore |
| 173 | S.VIGNESH WARAN | STUDENT | M.A.M SCHOOL OF ENGINEERING | TRICHY |
| 174 | Arun Chakkaravarthy | Lecturer | Mohamed sathak polytechnic college, Kilakarai | Kilakarai |
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| 177 | Mr. AQEEB AARESH PATIL | Mechanical Engineering | Jayawantarao Sawant College Of Engineering | Pune |

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| 178 | KISHAN M Y | Student | Government Engineering College, Hassan | Hassan |
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| 180 | Mohammed Saad umair | Mechanical Engineering | Government engineering college chamarajanagar | Chamarajanagar |
| 181 | RAKSHITH GOWDA D S | Assistant Professor | Vidyavardhaka College of Engineering | Mysuru |
| 182 | BHARATH P | Student | Govt Engineering College Chamarajanagara | Chamarajanagar a |
| 183 | Achutananda K B | Assistant Professor | RYM Engineering College | Ballari |
| 184 | Abhishek Amaragolhiremath | To be happy | UVCE | Bangalore |
| 185 | Sagar | Student | Govt engineering | Chamarajanagar |
| 186 | Arvind | Undergraduate Student | University Visvesvaya College Of Engineering, Bangalore. | Bidar |
| 187 | V Ganesh Bhadri | Student | University Vishveshvaraya College of Engineering | Bangalore |
| 188 | Yashwanth | Student | UVCE | Bengaluru |
| 189 | S. Vignesh | Assistant Professor | Sri Krishna College of Engineering and Technology | Coimbatore |
| 190 | Narendra Babu | BE | UVCE | Chickballapur |
| 191 | KUMARESAN | ASSISTANT PROFESSOR OF ENGLISH | AVS COLLEGE OF ARTS AND SCIENCE | SALEM |
| 192 | Nishanth Joseph | BE Student | UVCE | Bengaluru |
| 193 | DR.K.JALAL DEEN | Assistant Professor Senior Grade | Solamalai college of Engineering | Madurai |
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| 195 | Thamballa Kiran | Assistant professor | Mallareddy Institute of Engineering and Technology | Hyderabad |
| 196 | Harshithyadav K | Student | UVCE | Bangalore |
| 197 | PRASHANTKUMAR S CHINAMALLI | Assistant Professor & HoD | Veerappa Nisty Engineeering College Shorapur | Shorapur |
| 198 | C. Vanlaldinpuia | UG | University Visvesvaraya College of Engineering | Bangalore |
| 199 | Mr.RAKESH.B.G | Assistant professor | Vemana institute of technology | Bengaluru |
| 200 | Karthik M D | B E | Government engineering College chamarajanagara | Sakaleshapura |
| 201 | K.ULAGANATHAN | Students | Erode Sengunthar Engineering College | Erode |
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| 204 | MANJUNATH R SHASTRY | Under Graduate Student | University Visveswaraya College of Engineering | Bangalore |
| 205 | Punith Kumar T R | Mechanical engineering | UVCE | Bengaluru |
| 206 | Dr. Ramakrishna Balijepalli | Associate Professor | RGM College of Engineering and Technology, Nandyal | Nandyal |
| 207 | Nagendra Akula | Professor | St.Peters Engineering College | Hyderabad |
| 208 | Pavana Kumara | Assistant Professor | Shri Madhwa Vadiraja Institute of Technology and Management udupi | Udupi |
| 209 | M LAKSHMANAN | Assistant Professor (S.G) | RAMCO INSTITUTE OF TECHNOLOGY | Rajapalayam |
| 210 | Ananya S Athray | student | Dr Ambedkar Institute of Technology | Bangalore |
| 211 | Dr GANGADHAR B MEGERI | Associate professor | Basaveshwara Engineering College Bagalkot | Bagalkot |
| 212 | Swati S Gavimath | Student | Basaveshwar Engineering College(Autonomous), Bagalkot | Bagalkot |
| 213 | Priyanka patil | Student | Basaveshwara engineering college,bagalkot | Bagalkot |
| 214 | Ritu B Nikam | Student | Basveshwara Engineering College,Bagalkot | Bagalkot |
| 215 | Dr. Sharada P | Associate professor | Basaveshwar Engineering College, Bagalkot | Bagalkot |
| 216 | Bharati Malli | Student | Basaveswar engineering college. Bagalkot | Bagalkot |
| 217 | Gurukiran | Mechanical engineering | Maharaja institute of technology thandavapura | Nanjangud |
| 218 | Pavitra | Student | Basaweshwar engineering college | Bagalkot |
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| 220 | Gagan M | Student | RYMEC | Ballari |
| 221 | Govinda G | Student | Rao bahadur Y mahabaleshwar Engineering college, Ballari | Ballari |
| 222 | Chintamani shinde | Engineering | Basaveshwar Engineering College | Bagalkot |
| 223 | Kirana.N | Engineering | RYMEC BALLARI | Chithradurga |
| 224 | Pallavi Tummaramatti | Student | Basaveshwar engineering college,bagalkot | Bagalkot |
| 225 | Pratiksha jadhav | Biotechnology | Basaweshwar engineering college bagalkot | Bagalkot |
| 226 | Swaroop N M | Student | Rao Bahadur Y. Mahabaleswarappa Engineering College, Ballari | Hospet |
| 227 | Dr. Jagadish SP | Associate professor | RYMEC Bellary | Bellary |
| 228 | Shreyas pb | Studying BE | MiT thandavapura | Mysore |
| 229 | VYSHNAVI | Student | RYMEC | BALLARI |
| 230 | Yasini | student | christ college of science and management | hosur |

**6. Link to Recorded webinar:**

https://drive.google.com/file/d/15CtfFozl0jTTP9CwQ9h0U6IMIF83Vuh9/view

**7. Concluding Remarks**

**Organizer:**

First and foremost, I would like to express my appreciation to the resource person for enlightening students and faculty to take up the research work in medical field.

The webinar organized was very useful and the participants were satisfied which can be understood by looking into the feedback of participants

**Head of the Department:**

As per PAC suggestion, it was decided that a webinar is to be organized for the students during the lockdown period and the same was conveyed to Dr. Veerabhadrappa Algur, coordinator student workshop.

I am very happy to inform you that the Department of Mechanical Engineering, R Y M Engg. College organized student webinar. The webinar topic was very useful to the student to build their career by using our resources. I thank all my teams' members and students for making it a grand success.

## 9. Feedback

The feedback was collected by the students and staff members.

How do you rate Session on "Bio-Materials & Technology": Recent Trends & Applications in Medical Field by Dr. Hanumantharaju. H. G ?

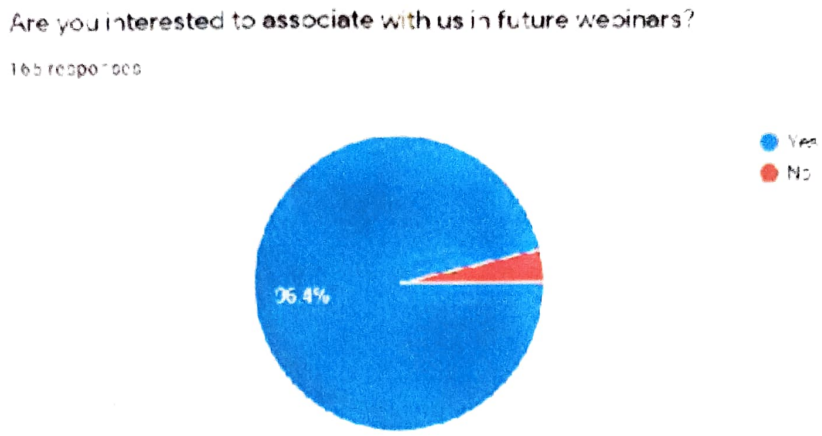
165 responses

How useful to you was the information presented at the webinar?

166 responses

How would you rate the entire session?

165 responses




**General Comments**

1. We are being mechanical engineers came to know that what is the role in the biomedical field from this session.
2. The presentation was good and was totally helpful in learning about the advances about biomaterials,, Thank you sir
3. The session was very informative. As I am an undergraduate student my concentration towards the topic never got down and I thank our Dr. Hanumantharaju. H. G sir for this session.
4. Dr HGH, presented knowledgeable and informative seminar, well organized program
5. The session was very interesting, informative and helpful. It showed a new vision for me regarding the topic biomaterials. Hope the session was for a longer time.
6. It's a good programme, to gain lot of knowledge about BM. thank you respected Dr. H G H sir and all professors and also faculty of mechanical engineering for organised the wonderful webinar
7. It was interesting and informative, this surely shed ray of knowledge upon me in this field.
8. it's really informative. I have attending more than 26 webinars.but this one is very related to research oriented. Thank you for conducting these kind of webinars.
9. I am very thankful to you for organizing this webinar.
10. It was an excellent informative session. Few technical issues are need to be sorted out.

Overall feedback is good, and students informed the organizer and Head of the department to conduct few more on technical seminars to update the knowledge in current technology used in Industries.

## 10. Acknowledgement

Department of Mechanical Engineering thank the Management for their Magnanimous support for organizing the student webinar. We also thank the Principal, Vice Principal and Deans for their continuous support during covid-19 period and to conduct the student webinar.

We thank Resource Person Dr. Hanumantharaju H G for taking his time to share knowledge for our students during COVID-19.

We thank all teaching and non-teaching faculty, Department of Mechanical Engineering for their valuable inputs and support for conducting student webinar

Thank you one and all.

Dr. Veerabhadrappa Algur
Organizer

Dr. Kori Nagaraj
Head of the Department

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