

3.3.2 Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year:

Name of the workshop/ seminar	Number of Participants	Date From – To	Link to the Activity report on the website
Seminar on IPR awareness and how to write research proposals for funded projects	20	12-04-2023 to 12-04-2023	https://vit.edu.in/images/downloads/naac-uploads/2022-23/3.3.2 CU Worshop%20conducted.pdf
Seminar on Design Thinking and Business Model	72	05-04-2023 to 05-04-2023	https://vit.edu.in/images/downloads/naac-uploads/2022-23/3.3.2 CU Worshop%20conducted.pdf
How To Write Research Paper	64	08-02-2023 & 15-02-2023	https://vit.edu.in/images/downloads/naac-uploads/2022-23/3.3.2 CU Worshop%20conducted.pdf
Insights on Research Proposal Writing	45	09-12-2022, 13-12-2022	https://vit.edu.in/images/downloads/naac-uploads/2022-23/3.3.2 CU Worshop%20conducted.pdf
Entrepreneurship opportunities in healthcare	62	10-10-2022 to 18-10-2022	https://vit.edu.in/images/downloads/naac-uploads/2022-23/3.3.2 CU Worshop%20conducted.pdf
Research Mentoring Workshop 2022	57	17-09-2022, 24-09-2022, 01-10-2022, 08-10-2023, 15-10-2023	https://vit.edu.in/images/downloads/naac-uploads/2022-23/3.3.2 CU Worshop%20conducted.pdf



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

VIT | Vidyalankar
Institute of
Technology

Institution's Innovation Council
Report for Academic Year 2022-23

VIT-IIC has established Institution's Innovation Council (IIC) as per the guidelines of 'MoE's Innovation Cell (MIC)'. The initiative was to create a vibrant local innovation ecosystem, start-up supporting mechanism, establish a functional ecosystem for scouting ideas and pre-incubation of ideas and to develop better cognitive ability for technology students. VIT-IIC is actively involved in organising and conducting seminars, workshops, podcast series, entrepreneurship bootcamps etc. for its students and faculties. The VIT-IIC member details for the academic year 2022-23 are as follows:

Team Member	Member Type	Role on Committee
Prof. Nilesh Deshpande	Faculty	Convener
Prof. Pratik Mhatre	Faculty	Convener
Nandini Gore	Student	President
Aayush Bhasin	Student	Secretary
Prathamesh Swar	Student	Treasurer
Sakshi Padwal	Student	Treasurer

Intellectual Property Rights

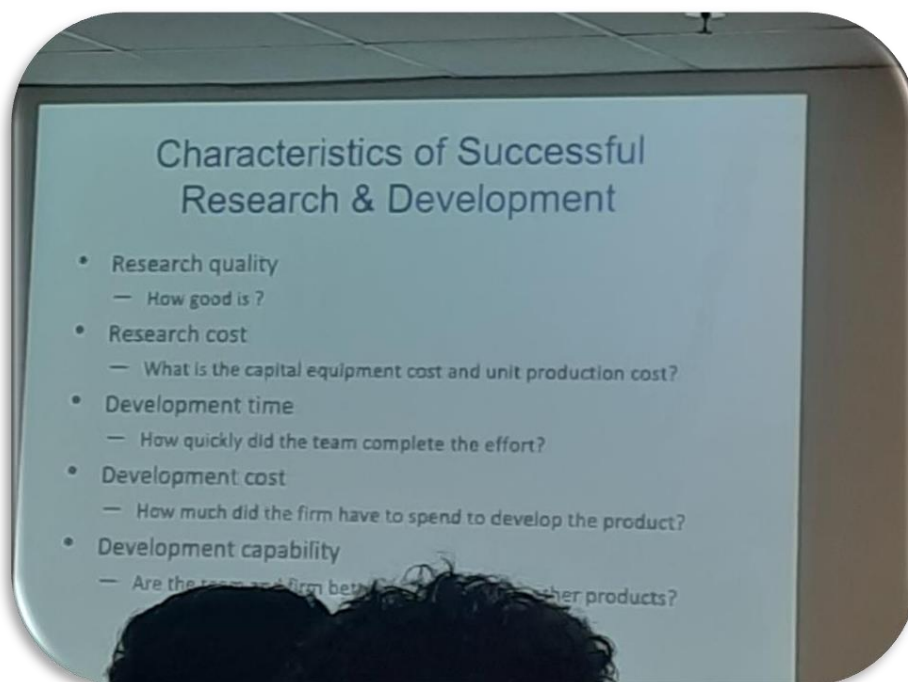
The Intellectual Property Rights (IPR) and IP Management events, featuring professors Dr. Y. S. Rao and Prof. Kiran Talale from the Sardar Patel Institute of Technology in Mumbai, were dynamic gatherings aimed at exploring the intricacies, significance, and practical aspects of intellectual property rights and effective IP management.

The IPR event, led by Dr. Y. S. Rao, provided attendees with a comprehensive understanding of the role intellectual property plays in driving innovation, economic growth, and societal development. Dr. Rao's keynote address highlighted the legal frameworks, global trends, and challenges associated with intellectual property rights, offering valuable insights into the importance of protecting intellectual property.

The IP Management event, guided by Prof. Kiran Talale, focused on equipping start-ups and entrepreneurs with effective strategies for managing their IP assets. Through interactive workshops and practical sessions, Prof. Talale shared best practices and successful strategies for patent filing, copyright licensing, trademark branding, and trade secret protection. Participants gained practical knowledge and guidance to safeguard and maximize the value of their intellectual property assets.

Both events provided engaging panel discussions and networking opportunities for participants to connect with industry professionals and fellow attendees. Attendees had the opportunity to participate in thought-provoking discussions, seek guidance on specific IP-related issues, and explore collaborations in the intellectual property field.

The IPR and IP Management events, featuring Dr. Y. S. Rao and Prof. Kiran Talale successfully achieved their goals of promoting awareness, knowledge sharing, and collaboration in the field of intellectual property. Attendees left the events equipped with valuable insights, practical tools, and a deeper understanding of the importance of intellectual property protection and effective IP management in today's competitive business landscape.



Attendance Report:-

Core members	5
Attendees	20
Faculty	2
Guest Speakers	2



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VIT-IIC has established Institution's Innovation Council (IIC) as per the guidelines of 'MoE's Innovation Cell (MIC)' in the year 2020. The initiative was to create a vibrant local innovation ecosystem, start-up supporting mechanism, establish a functional ecosystem for scouting ideas and pre-incubation of ideas and to develop better cognitive ability for technology students. VIT-IIC is actively involved in organising and conducting seminars, workshops, podcast series, entrepreneurship bootcamps etc. for its students and faculties. The VIT-IIC member details for the academic year 2022-23 are as follows:

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Design Thinking

On April 5th, 2023, a design thinking Event was held by Dr. Saurabh N. Mehta, an experienced design thinking practitioner and a well-known figure in the field of design thinking. The purpose of the event was to introduce college students to this problem-solving approach and equip them with the skills and tools they need to become innovative problem solvers.

Dr. Saurabh N. Mehta was the primary speaker for the event. Dr. Mehta is an accomplished design thinking consultant and trainer with over 15 years of experience in the field. He has worked with leading organizations across various industries, including technology, and education, to implement design thinking principles and practices and solve complex problems.

Dr. Mehta is also an active researcher and has published several papers on design thinking, innovation, and user experience. He holds a Ph.D. in Design Management.

During the Event, Dr. Mehta provided an overview of design thinking and its key principles, along with real-world examples of how design thinking has been used to solve complex problems in various industries. He shared several examples of successful products that were created using design thinking, including Amazon Fire Stick, which was designed to simplify the streaming experience for users by using a customer-centric approach.

Dr. Mehta also shared other examples of products and services that were created using design thinking, including Apple's iPod, Airbnb, and the redesign of the emergency room at the Hospitals. These examples demonstrated how design thinking can be used to solve complex problems and create innovative solutions.

The Event covered several key themes and topics related to design thinking, including the importance of empathy, ideation, collaboration, prototyping, and testing. Dr. Mehta emphasized the need to develop empathy skills to understand and connect with the needs of others, and to encourage ideation and collaboration to generate creative solutions.



Business Model Canvas

On April 5th, Prof. Nilesh Deshpande conducted an insightful and informative session on Business Model Canvas (BMC) at M101 from 5 pm to 6 pm. The event was well-attended by students and professionals alike who were keen to learn more about this popular business tool.

Prof. Nilesh Deshpande began the session by explaining the importance of having a clear and concise business model for any start-up or established business. He emphasized that a good business model is the foundation of a successful business and can help identify potential opportunities, challenges, and gaps that need to be addressed.

He then went on to explain the BMC, a popular tool used by entrepreneurs and business owners to create, analyse, and refine their business models. Prof. Nilesh Deshpande gave a detailed explanation of each element of the BMC and its significance in creating a comprehensive and effective business model.

The attendees were highly engaged throughout the session and asked insightful questions related to their business models. Prof. Nilesh Deshpande provided detailed answers and practical solutions to their queries, which added value to the event.

The session concluded with a lively discussion on the various applications of the BMC in different industries and businesses. The attendees left the event with a deeper understanding of the importance of a good business model and the tools available to create one.

Overall, the event conducted by Prof. Nilesh Deshpande on Business Model Canvas was highly informative and engaging. The attendees left with valuable insights and practical knowledge on creating effective business models using the BMC.



Attendance Report:-

Core members	7
Attendees	72 and 70
Faculty Speakers	2




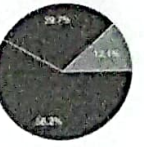

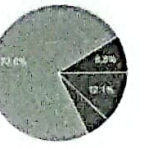


Activity Report

Activity Name:	Workshop on How To Write Research Paper?
Objective/s of activity:	The objective is to help students learn about how to write a research paper.
Scope:	<ul style="list-style-type: none"> ● Development of Writing Skills As students must write research papers, they surely develop their writing skills, ● Improvement of Research Skills The name of this assignment also tells students to develop research skills. ● A Boost in Other Academic Skills The process of writing a research paper likewise triggers other academic skills. ● Enhanced Knowledge and Experience
Target Audience:	<ul style="list-style-type: none"> ● B.E students of Vidyankar Institute of Technology.
Activity Details:	Workshop on Image Processing
	Day: Wednesday
	Date: 8 th February 2023, 15 th February 2023
	Time: 9:00 am to 12:00 pm
	Platform: Offline Mode
Preparation:	<ol style="list-style-type: none"> a. Publicity was done via following mediums: <ol style="list-style-type: none"> 1. WhatsApp 2. Social Media networking- Instagram 3. Attractive posters were made to attract the students. 4. Publicity in each class was managed by Publicity team. b. Technical team was prior informed to get equipped to help the students in case of any doubt during the workshop. <ol style="list-style-type: none"> 1. Inspection of all working projectors and computers with proper internet connection was completed by Technical team. c. Technical difficulties faced during the event were successfully looked after by the Technical team.
Description of activity:	<ul style="list-style-type: none"> ● The workshop was conducted by Prof.Dr.Dhananjay Patel in two sessions i.e 8th and 15th February, 2023. ● On February 8th, the session started with greetings by our convener Prof. Amit Maurya and headed to our speaker Prof. Dr. Dhananjay Patel who started with Introduction to the world of Research & Development. This session was specially organised for BE students & was also helpful for all and made available online via Instagram LIVE. Day-1 was planned for Div-A. Day was wrapped by giving assignment to students.

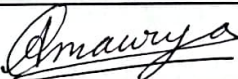
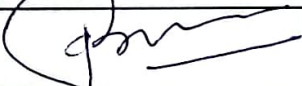
	<ul style="list-style-type: none"> • On February 15th, we saw the same interest and enthusiasm among students and started with our speaker Prof. Dr. Dhananjay Patel. Students were asked to talk and discuss about their creativity and decency of topics to be plotted on paper. This session was specially organised for BE students & was also helpful for all. Day-2 was planned for Div-B. Day was wrapped by giving assignment to students. • Anchoring of the event was done by Events core member Avinash Dhiran. Instagram LIVE was completely handled by the Technical Team. The event was successfully completed under the leadership and coordination of our Chairperson Shravani Dorlikar and Vice-Chairperson Udbhav Kamath with organizing team of IETE under the guidance of our convener Prof. Amit Maurya. • The session concluded with a vote of thanks by a committee member of IETE and the participants were asked to provide feedback of the event. 										
Takeaways:	<ul style="list-style-type: none"> • Students learnt about How To Write A Research Paper. • IETE-VIT committee received feedback for the workshop from the respective attendees. • Participation certificates were provided to the students. 										
Attendees:	<table border="1"> <thead> <tr> <th data-bbox="545 1073 756 1213">No. of participants</th> <th data-bbox="756 1073 935 1213">No. of Committee members</th> <th data-bbox="935 1073 1135 1213">No. of Speakers</th> <th data-bbox="1135 1073 1317 1213">Convenor</th> <th data-bbox="1317 1073 1489 1213">Total</th> </tr> </thead> <tbody> <tr> <td data-bbox="545 1213 756 1270">50</td> <td data-bbox="756 1213 935 1270">12</td> <td data-bbox="935 1213 1135 1270">01</td> <td data-bbox="1135 1213 1317 1270">01</td> <td data-bbox="1317 1213 1489 1270">64</td> </tr> </tbody> </table>	No. of participants	No. of Committee members	No. of Speakers	Convenor	Total	50	12	01	01	64
No. of participants	No. of Committee members	No. of Speakers	Convenor	Total							
50	12	01	01	64							



Feedback:

<p>Q1. What are the other names by which a journal's 'instructions for authors' may be given? 91 responses</p>  <ul style="list-style-type: none"> Recommended guidelines Submission guidelines Editorial guidelines Manuscript guidelines 	<p>Q2. What is the Impact Factor? 91 responses</p>  <ul style="list-style-type: none"> An author level metric A metric that's become so popular that fake impact factors exist A journal-level metric The only metric for evaluating the quality of a journal
<p>Q3. What is an international journal? 91 responses</p>  <ul style="list-style-type: none"> A journal that has the word 'international' or 'global' in its name A journal that has an international readership A journal operated by a publisher that has multiple offices around the world A journal that is printed and distributed to libraries around the world 	<p>Q4. Just by _____ you can increase your chances of getting published. 91 responses</p>  <ul style="list-style-type: none"> Following the instructions for authors word-to-word Making international clients in your paper Inviting a well-known researcher to be a guest author of your paper Writing a lengthy paper
<p>Q5. A student is writing a research question. What should his/her first step be? 91 responses</p>  <ul style="list-style-type: none"> Specifying what the question is about Indicating where the research finding is coming from Formulating a hypothesis Ensuring their ideas are researchable 	<p>Q5. What is an abstract? 91 responses</p>  <ul style="list-style-type: none"> A short footnote in the text of your work A chance to acknowledge those who have helped you in your research project, placed at the beginning of the written-up project A brief resume of the study to entice the reader to read more An introduction to the research
<p>Q7. What is a literature review? 91 responses</p>  <ul style="list-style-type: none"> A place to provide autobiographic detail A place to outline all the reading you have done in your study A place to link your reading to your research findings A place to discuss literature that helps to frame your study 	<p>Q8. What should a conclusion chapter contain? 91 responses</p>  <ul style="list-style-type: none"> A sense of the research story A summary of the key findings Reflection on what these findings mean Discussion of possible implications for practice or future research All of the above

PO-Mapping: PO8, PO10, PO12

	
<p>Prof. Amit R. Maurya (IETE CONVENER)</p>	<p>Dr. Varsha Turkar (HOD EXTC)</p>

**INSIGHTS ON RESEARCH
PROPOSAL WRITING**

EVENT HIGHLIGHTS:

- How to select research topic that will lead to product development
- How to draft the research grant proposal



MR. NEELESHKUMAR PANDIT
PROJECT MANAGER- IIT-BOMBAY

FRIDAY

09 TH DECEMBER, 2022

09:30AM

VIT R&D COMMITTEE

VENUE - M501

Name of the committee	R & D Committee
Activity Name	"Insights on Research Proposal Writing"
Date and Time of activity	<p>Day 1: Friday Date: December 09, 2022 Time: 9.30 am to 12.30pm</p> <p>Day 2: Tuesday Date: December 13, 2022 Time: 9.30 am to 12.30pm</p> <p>Venue: M510</p>
Description	<p>Introduction</p> <p>VIT R&D committee, organized a session on Insights on Research Proposal Writing This session is aimed to benefit faculty members of the institute in drafting the research proposals, to be submitted to various funding agencies. The session was of two days.</p> <p>The research proposal is your chance to explain the significance of your project to organizations who might wish to fund or otherwise support it. Ideally, it will demonstrate the quality and importance of your project as well as your ability to conduct the proposed research.</p> <p>The following point covered in the workshop</p> <p>Why is the problem important? How does current context make this problem timely? What happens if you do not solve it? New fundamentals/principles involved? Universal truths (best) versus point solutions (not as good). Why is this the right problem for you to solve? Balance between experience and new directions. Is this fundamental give yourself time to reflect, write, review, refine, give others a chance to read/review and provide feedback.</p>

Event Snapshots

Start Of the Event



Attendees

45

Dr. Sheetal Mapare
R&D Convener

Event Poster:

Department of Biomedical Engineering in Association with
BMSA and BMESI

ORGANIZED A CERTIFICATE COURSE

E - SUMMIT

"ENTREPRENEURSHIP OPPORTUNITIES IN
HEALTHCARE"



10/10/2022

FROM

TO



15/10/2022



MR. ANSHAV
JAIN



MR. ANKIT
JHAVERI



MR. NAGESH
UTEKAR



REGISTER HERE



MR. TANMAYA
KHORGADE



MR. KHARVEL
PARAKH



MR. GAJANAN
AMBEDKAR



ISHA: 7264897435
HARSHDEEP: 7875098853



@bmesi.vit
@bmsa_vit

Name of the Event:	Entrepreneurship Summit "Entrepreneurship opportunities in Healthcare"
Name of Institute:	Vidyalankar Institute of Technology
Name of the committee:	Biomedical Students Association (BMSA VIT) & Biomedical Engineering Society of India (BMESI VIT)
Event Date:	10 th October 2022 to 18 th October 2022
Event Time:	3:45 P.M. to 5:30 P.M.
Event Venue:	M- 413
Description:	<p>Day 1</p> <p>The workshop on "Toolkit to Design Your Unicorn" was conducted by the Department of Biomedical Engineering in association with the committees BMSA VIT & BMESI VIT. The speaker for this event, Mr. Anshav Jain, Founder and Managing Director at Bringle UK and India, has an experience of 21+ years in business development. He completed his B.E. in PSCT (Polymer Science and Chemical Technology) from Delhi University and PGDBA from Symbiosis Pune. The event was hosted by Ms. Sania Ayare. She started the event by giving a concise introduction of the speaker and guiding the audience about what the event holds for them. Mr. Anshav Jain commenced with the session by giving the outline of the event. He then asked the attendees about what they know about unicorns and then went ahead explaining it. The Cash Flow Quadrant System and how to determine which quadrant one fits in was explained in detail by him. He went ahead and highlighted the fact of why certain Entrepreneurs are much more successful than others. The former point was answered by him by using the "Golden Circle Rule". This rule is nothing but answering three basic questions, 'what, how and why'. This rule was further simplified by him as he elaborated on it by using an example of the famous brand, Apple. The requirement of entrepreneurship in India due to ever-rising unemployment in the nation was put into spotlight. How can an entrepreneur provide employment opportunities to the mass and thus how one can contribute to the society? The simplest solutions to such situations were put forward by him. The major problem in current institutions were highlighted. The mismatch of skills of a person and the work the person is being assigned as well as, the impacts it has made, assisted the attendees to understand about the problems currently present in the industry. The speaker further displayed a music video from his YouTube channel, Bringle Talks. The title of the video was "Sone ki Chidiya Ko Jagao". The video was about the last Hindu Emperor: Prithviraj Chauhan. The importance of having leadership qualities to succeed in this start-up industry and how a powerful leader has a great positive impact on his team and company was the major gist of the video. He accentuated the point that the only way a country can be financially independent is when we, the citizens, become financially independent. The three rules of Entrepreneurship: Sustain, Adapt and Scale which are a key to success along with leadership, were elucidated. A podcast on "How to Transform yourself into a Leader" was also played by him.</p>

The various start-up opportunities in the healthcare industry were introduced to the attendees which was followed by the speaker himself narrating his own life story which further awakened a wave of motivation among the audience. The event was concluded by the host, followed by the convener of BMSA presenting token of appreciation to the speaker.

Day 2

The seminar on "Business Model Canvas: Introduction to the Blockchain" was conducted and arranged by Biomedical Engineering Society of India (BMESI) and Biomedical Student Association (BMSA).

The Speaker for this event was Mr. Ankit Jhaveri. He is the investor and building new stuff management @BEL. The guest was experienced in Management Consulting Start-ups, investing and industry. He is strong Consulting Professional Skilled in Business Transformation. Dr. Roheit was also present for the seminar. He is a Founder of Life Standards (Preventive Cardiology & Fitness) and also CEO & Chief Intensivist in UltraCare Hospital.

The event was hosted By Ms. Mugdha Kukudkar, she started by introduction of guest of the day and by the topic to be covered she also gave the warm welcome to the guest.

Mr. Ankit Jhaveri started with giving basic outline and introduction about the topic and slowly building up so that all the student present will understand the concept properly. He has lots of experience in consulting start-ups and investing in industry, the strong concept of business and start-ups was build and going into more detail student also got the brief idea of what should be done in order to start a start-up and making more into it.

They also got an idea what one should choose as a subject in order to and start-up its business.

We were also highlighted to the new technology and scope in that technology like:

- Robotic Surgeries
- About Hybrid Models
- About pharmacy

It was amazing and informative session and all student were a step up in the field of business and knowing new technology.

The workshop was concluded by the host and the vote of thanks was given.

Day 3

The seminar was conducted by Mr. Nagesh Utekar, Managing Director at Rescare Medisys India Pvt. Ltd. He has over 27 years of experience in the field of Biomedical and Business Development. He commenced the session by interacting with the students, understanding

their opinions over biomedical field at a business level. He explained his business experience of Sales Service and Product Management in Biomedical and briefly clarified the difference between Business and Entrepreneurship. He also told important qualities required for Entrepreneurship such namely being innovative, having unique mindset, risk-taking ability and being an out-of-the-box thinker. He also introduced the students to the new upcoming innovations in the field of Biomedical and Technology such as CAE AresAR i.e., VR Anatomy, a baby delivery operating robot. He acquainted us regarding REVIVE, developed by Sensivision, an important innovation to treat Hypoxic Ischemic Encephalopathy caused in newborn babies. REVIVE is a whole-body cooling device which can prevent the newborn from cerebral palsy, mental retardation, also most importantly this innovation was made in India. A Simulation Manikin used at a CPR event conducted in VIT, were also designed and sent by him for CPR hands on experience. Failure is a part of success, but hard work and persistence is inevitable for success. He concluded the session with the quote, 'At the end of day, thinking costs nothing', thus inspiring the audience to think and innovate. The event was successful, owing to the incredible speaker, conveyers, committees and the students.

Day 4

The fourth seminar of E-SUMMIT on "Course to Career" was addressed by Mr. Tanmaya Khorgade, the Director of Pace Rover Medical System. The host for the event was Mr. Shritej Sakpal, who introduced the speaker.

He also has an experience as a Sales & Service Engineer at Care Mediquip. Currently he is distributor of Nihan Kohden India Pvt. Ltd. He completed his B.E. from Vidyalankar Institute of Technology.

Mr. Tanmaya Khorgade started with a brief introduction about B.E. Biomedical Engineering Syllabus from 2nd semester to 8th semester. He further explained us about each subject in detailed which is being taught in this program. The subjects which we learn in Biomedical Engineering has separate scope in industry.

According to his research, the following are the market values of the subjects which is taught in the Biomedical Engineering.

- Human Anatomy & Physiology for Engineers - \$3.17 Billion by 2017
- Data Analysis - \$ 195 Billion by 2012
- Biomedical Microsystems - \$ 13 Billion by 2030
- Hospital Management - \$ 60 Billion by 2027
- Robotics in Medicine - \$ 14.4 Billion by 2026
- Nuclear Medicine - \$ 9.8 Billion by 2018, etc.

Hence, the total market value of the all subjects are \$451.48 Billion.

He added, data analysis using statistical approach, machine learning etc. are the most important aspects for biomedical engineering. The biomedical signals are not deterministic,

they vary and cannot be predicted accurately, for this reason, statistics comes into action. Generalizing them to operate automatically is done through machine learning.

He briefly explained about one of the emerging field 'Bioinformatics'. Bioinformatics builds and manages software for experts to advance research and solve problems. So, biomedical engineering relies on bioinformatics to achieve the overall goal.

He also touched upon a topic Hospital Management. There is a lot of work to be done in this field, as there is no work done previously in this field.

He added that every course has separate industry so one can choose their favourite subject and work on that. One should see the possible outcome and work hard to work in the field which is unexplored.

Behind one machine, there is an Application Engineer, Sales Engineer & Service Engineer. Biomedical Engineers cannot stop working during the times of pandemic.

The session was made interactive with various questions that were asked by the participants and the queries were promptly answered by speaker. He also awarded the students with the gifts who answered his questions correctly. All the participants found the seminar informative and learned something new that would have sparked their interest.

The webinar was concluded by the host Mr. Shritej Sakpal, followed by Prof Geetha Narayanan, Convener of BMESI Committee, VIT.

Day 5

The seminar on "How to build a Startup" organized by Department of Biomedical Engineering in collaboration with the committees BMSA & BMESI.

The speaker for this event, Mr. Khaarvel Parakh who is a Partner- Customer Success at Veeva Analytics. He has over 13years of experience in Sales performance and Supply chain management across wide spectrum of industries.

The event was hosted by Anvita Agarkar, she commenced the event by a short introduction of the speaker.

Mr. Khaarvel Parakh started off by an interactive conversation with students regarding their views on building a startup. After the discussion he spoke regarding the need of startups in India, major differences between a corporate based career and startup career. Also, the benefits as well as drawbacks of building your own startup, roadblocks faced by upcoming startup companies such important information was explained by him.

He then gave an insight into his own journey of building his technology consulting startup. He briefed the audience regarding his own software consulting firm startup, which consults other business companies the software technology solution useful for their respective company departments and seamlessly integrating innovation.

He then arranged a fun exercise activity for the audience to test their skills a negotiator, which gave the audience a hands-on experience of business negotiation. He also spoke about the difference between skills of a good negotiator and convincer.

He gave important key elements for the students to help them build a successful startup: -

- 1) Idea: An out of the box, unique idea to which is the base line of the startup. The idea should help solve a problem or provide an effective solution to any social issue.
- 2) To validate the idea: To check the practical use of the startup in society.
- 3) Team and Execution: Effective team building is essential for a successful startup, and its execution with professional slides and infographic charts.
- 4) Advisory Board: Keep touch with expert mentors and advisors which can guide you with their experience and help you build up on new ideas.

Concluding his seminar, he lastly explained the importance of synergy of the seller and buyer in business and need of their belief in each other's vision. After an interactive Q & A session with the audience to solve their doubts. The seminar was successful with the educative information and inspiring journey of Mr. Kharvel.

The seminar was concluded by giving vote of thanks to the speaker, Mr. Parakh Kharvel by Prof. Geeta Narayan, conveyer of BMESI committee, VIT.

Day 6

The event was commenced by the host, Mr. Abhinav Paniketty who gave a short introduction of the speaker Mr. Gajanan Ambekar. He was student from VIT itself, completed his B.E. in Biomedical Engineering, he has about 12 years of experience in the field of biomedical. Also, he has worked under Wipro GE dealer and as Sales Manager in Philips Indian Ltd. Dealer. After many years of experience, he started his own company – Prime Enterprises, during covid times. Mr. Gajanan Ambekar started by explaining the prime job aspect of a biomedical engineer, followed by brief acquaintance about various departments such as Paramedical department, Surgical department, OT department, Radiology department, Outpatient department, Nursing department present in a hospital and the functioning of each department. Then he talked about the various roles of a biomedical engineer which can be helpful in the hospital system and how it can be of use for the various hospital departments. Also, he explained to us the requirement of biomedical engineers for maintaining and repairing biomedical machines and

equipment, installing and calibrating biomedical machines, equipment, and software related to it as well as, for training the clinicians and their juniors. He then listed the top most healthcare companies functioning at the front end since covid, he also talked about different fields such as microscopy, biotechnology, medical research field in those respective companies. He introduced us to AMC which stands for Annual Maintenance Contract which is useful to cover basic service on products and to CMC which stands for Comprehensive Service Contract which covers any additional spare parts, labour, or transportation costs that come up technically while servicing those products. After talking about the use of biomedical department, he spoke about his own firm 'Prime Enterprises' where he is at the position of the Proprietor Manager. He inspired the students of how start-ups are on the rise in the industry. He also explained the various key points one needs to remember while planning his own start-up. Points such as cost of business its structure, functioning, need and use for people, funding and uniqueness of business idea were explained in brief. Concluding the seminar, the host gave a vote of thanks to the speaker and Prof. Geetha Narayanan ma'am, the convenor of BMESI, thanked the speaker. Overall, the seminar was successful, thanks to the speaker Mr. Gajanan Ambekar, and the entire team of BMESI VIT and BMSA VIT as well as the attendees for being such an interactive and co-operative audience.

Attendance: There were overall 93 students present for the event which included students from SE & TE along with the professors of Vidyalankar Institute of Technology from Biomedical Engineering Department.

Further Scope: There are lot of opportunities for start-ups in Biomedical Engineering in different domains of Healthcare.

Event Photographs:















Season 1

Research Mentoring Workshop 2022

Introduction

This Mentoring programme aims to encourage and to facilitate knowledge transfer and sharing of good practices, to raise awareness on the importance of soft skills and Publications and presentations.

Develop the necessary skills, experience, and knowledge to conduct research responsibly and ultimately become an independent researcher

Undergraduate researchers also often make significant contributions in research, creating an environment of active learning while nurturing future scholars in their fields.

Topics

- Research Topic selection and finalization
- Ethics in Research
- Data Mining Tool in Research
- How to select Journal and conference to publish your research

Every Saturday starting from 17/09/2022
10.00am

MS Teams

<https://tinyurl.com/yzmjr5w2>

VIT R&D Committee

Speakers



Prof. Saurabh Mehta



Prof. Girish Gidaye



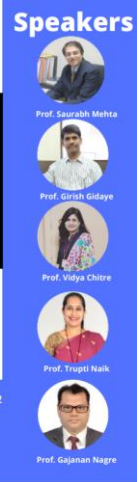
Prof. Vidya Chitre



Prof. Trupti Naik



Prof. Gajanan Nagre

Name of the committee	R & D Committee
Activity Name	"Research Mentoring Workshop 2022"
Date and Time of activity	Duration -: 2 Hours Day-: Every Saturday starting from 17/09/2022 10.00am Venue: Online
<p>Description Season 1 Research Mentoring Workshop 2022</p>  <p>Introduction This Mentoring programme aims to encourage and to facilitate knowledge transfer and sharing of good practices, to raise awareness on the importance of soft skills and Publications and presentations. Develop the necessary skills, experience, and knowledge to conduct research responsibly and ultimately become an independent researcher. Undergraduate researchers also often make significant contributions in research creating an environment of active learning while nurturing future scholars in their fields.</p> <p>Topics</p> <ul style="list-style-type: none"> • Research Topic selection and finalization • Ethics in Research • Data Mining Tool in Research • How to select Journal and conference to publish your research <p>Every Saturday starting from 17/09/2022 10.00am MS Teams https://tinyurl.com/yzmjr5w2 VIT R&D Committee</p>	<p>Introduction</p> <p>This Mentoring programme aimed to encourage and to facilitate knowledge transfer and sharing of good practices, to raise awareness on the importance of soft skills and Publications and presentations. Develop the necessary skills, experience, and knowledge to conduct research responsibly and ultimately become an independent researcher. Undergraduate researchers also often make significant contributions in research, creating an environment of active learning while nurturing future scholars in their fields.</p> <p>Topics</p> <ul style="list-style-type: none"> • Research Topic selection and finalization • Ethics in Research • Data Mining Tool in Research • How to select Journal and conference to publish your research • Orange Data Mining Tool • Purpose and Quality of Research

Event Snapshots

Start Of the Event

Vidyalankar Institute of Technology

Technical Talk on "Orange Data Mining Tool"

Dr. Girish Gidaye
Professor, Department of Electronics and Computer Science

Zoom meeting interface with participant avatars on the right.

#analyticSteps

DATA MINING TOOLS

Logos: rapidminer 01, ORACLE 02, IBM SPSS 03, KNIME 05, 10 SISENSE, 09 orange, 08 SAS, 07 fogaware, 06 python

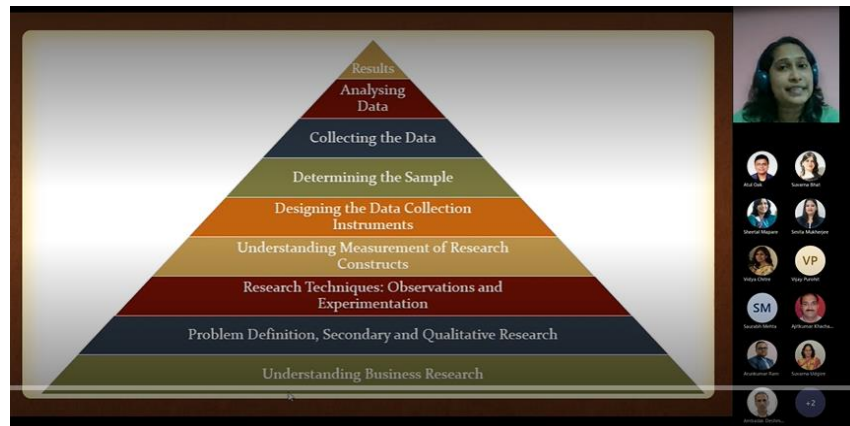
www.analyticsteps.com

Zoom meeting interface with participant avatars on the right.

Tips on how to choose a conference/journal for your Research Work

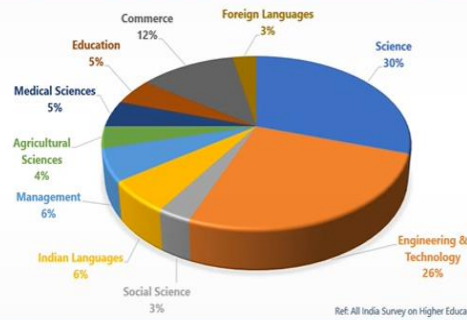
Prof. Saurabh Mehta
CAO and Professor
Department of Electronics & Telecommunications
Vidyalankar Institute of Technology

Zoom meeting interface with a large video of Prof. Saurabh Mehta and participant avatars on the right.



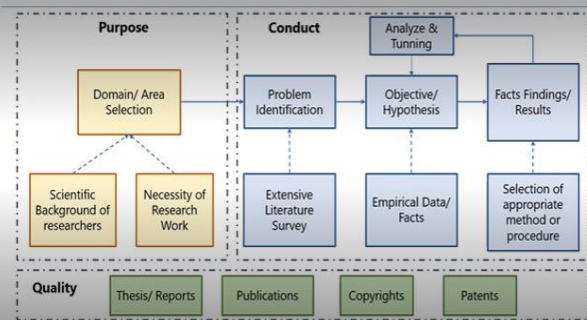
- A business researcher may be referred as
 - Marketing researcher, or
 - An organisational researcher
 - Financial or economics researcher
- Financial Manager- Will the environment for long term financing be better two years from now?
- Personnel Manager- What is the reason for the company's high employee turnover?
- Marketing researcher – How can I monitor retail sales and retail trade activities of company?
- Need information about the economic environment, employees, customers etc.

Enrolment in Ph.D. across top-10 disciplines (2010-11 to 2107-18)



Talk on "Purpose & Quality of Research" by Prof. Gajanan D Nagare on 15th October 2022 (gajanan.nagare@vit.edu.in) 4 of 23

Objective of the talk- A roadmap



Talk on "Purpose & Quality of Research" by Prof. Gajanan D Nagare on 15th October 2022 (gajanan.nagare@vit.edu.in) 7 of 23

Discussion Points


1. Conference Vs. Journal
2. SCI Vs. Non-SCI
3. Impact Factor Vs. Non-Impact Factors
4. What is my targeted audience ?
5. What is the ranking of the conference ? or is it a popular conference for world leaders in my research area?
6. Who are key-note/expert speakers for the conference?
7. What is the history of the conference?
8. What is the acceptance ratio of the conference/ who are in program committee/review committee ?
9. Is it a single blind or double blind review method?
10. Do conference give chance for a rebuttal?
11. What is the review period for the conference?
12. how conference is handling the submission of paper ?
13. Is it a single track conference or multi-track conference ?

Ideal Purpose of Scientific Research

- **Description**
 - Defining, classifying or categorizing the events or facts by clear understanding of the concepts or domain & re-describe the phenomenon of interest
- **Prediction**
 - Identifying the relationships among the events or facts by careful observations & estimate behavior or outcome
- **Explanation**
 - Establishing the relationships among the facts using empirical data or experimental findings in order to understand dynamic behavior of system
- **Application**
 - Applying the scientific knowledge gathered after a research in order to improve the performance of system or subject OR explore application in other filed of interest

S. Raj, S. Bhattacharjee, "Manual on Good Practices in Extension Research and Evaluation", Agricultural Extension in South Asia (AESAs), 60-67, 2017

VIT | Talk on "Purpose & Quality of Research" by Prof. Gajanan D Nagare on 15th October 2022 (gajanan.nagare@vit.edu.in) 10 of 23



Research Ethics

Dr. Vidya Chitre

The screenshot shows a Zoom meeting interface. On the left, there is a vertical list of participant avatars. The main area displays a slide with the title "ETHICS" in a teal header. The slide content includes four bullet points:

- ETHICS-Greek word: ethos=custom or convention, or the spirit of community
- The branch of philosophy that deals with morality. Ethics is concerned with distinguishing between good and evil in the world, between right and wrong human actions, and between virtuous and non virtuous characteristics of people-The American Dictionary of Cultural Literacy (2005)
- Research ethics concerns the responsibility of researchers to be honest and respectful to all individuals who are affected by their research studies or their reports of the studies' results.
- "Research Ethics" refers to a diverse set of values, norms and institutional regulations that help constitute and regulate scientific activity

On the right side of the slide, there is a vertical column of participant avatars, including one labeled "DC".

Dr. Sheetal Mapare
R&D Convener