



DEPARTMENT OF BIOMEDICAL ENGINEERING

DETAILS OF CLUB ACTIVITY

Name of the activity	:	Presentation on Seven steps of the Research Process
Name of the Club	:	Bioresearch Club
Date / Day of Activity	:	08.07.2023 / Saturday
Number of Members Present	:	55
Activity executed (Year / Semester)	:	I/II
Number of Students participated	:	55
Objective of the Activity	:	The objective of this club activity was to stimulate the students thinking and spark their imagination, leading to the generation of fresh ideas that can be utilized in various contexts such as academic projects, personal pursuits or problem solving endeavors.
Outcome of the Activity	:	Students gained a comprehensive understanding of the seven steps involved in the research process. They learnt how to navigate each step of the process effectively and efficiently. This helped them to provoke their creative ideas into practical actions.



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Madagadipet, Puducherry - 605 107



DEPARTMENT OF BIOMEDICAL ENGINEERING

DETAILS OF CLUB ACTIVITY

Name of the Staff in-charge/ Programme Coordinator		Mrs.T.Logasundari					
Duration & Venue of the Activity							
Date	08.07.2023	Day	Saturday	Duration of Activity	11.35 a.m to 01.15 p.m	Venue / Online Platform	Classroom
Details of the Club Members who executed this activity							
S.No	Year / Sem	Name of the Club Members					
1	Ist year	V.Abirami R.Gouri Nanda K.Gokularamanan M.Praveen V.R.Thanigaivel					
Details of the Class							
Year	I	Semester	II	Total strength of the class		55	
Number of students Present		55		No. of Students Absent		-	
Roll Numbers of Absentees (in order)							
PURPOSE/DETAILS OF THE CLUB ACTIVITIES & ITS CONTENT (500 Words)							
<p>Students conducted the presentation about Seven steps of the research process. The aim is to educate students about the fundamental steps involved in conducting research and this helps them to follow a clear roadmap when undertaking research projects.</p> <p>This presentation encourages creative thinking and innovation, by demonstrating, how the research process can be utilized to generate new ideas, solutions, or insights. It inspires individuals to leverage the research process to explore new avenues and contribute to advancement in their domain of interest. This instills confidence in the students to do innovative project.</p> <p>The research process consists of a series of systematic procedures that a researcher must go through in order to generate knowledge that will be considered valuable by the project and focus on the relevant topic. To conduct effective research, you must understand the research process steps and follow them. Here are a few steps in the research process to make it easier.</p>							

PHOTO GALLERY OF THE ACTIVITY





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DEPARTMENT OF BIOMEDICAL ENGINEERING

Name of the activity	:	Presentation about mRNA Technology
Name of the Club	:	Bioresearch Club
Date / Day of Activity	:	24.02.2024 / Saturday
Number of Members Present	:	46
Activity executed (Year / Semester)	:	I/II
Number of Students participated	:	46
Objective of the Activity	:	<ul style="list-style-type: none">• To make them know about mRNA technology used in medical field.• To make them get interested by sharing interesting technology used in vaccines.• To make them know that the future career opportunities option by selecting this field when they graduate.• To make them get to know about the role of this technology in medical field more.
Outcome of the Activity	:	<ul style="list-style-type: none">• Students understand about this mRNA technology is also used in vaccines and its uses.• Students understand that this technology has challenges and room for improving.• To enhance their curiosity in research field by presenting about these kinds of technologies.



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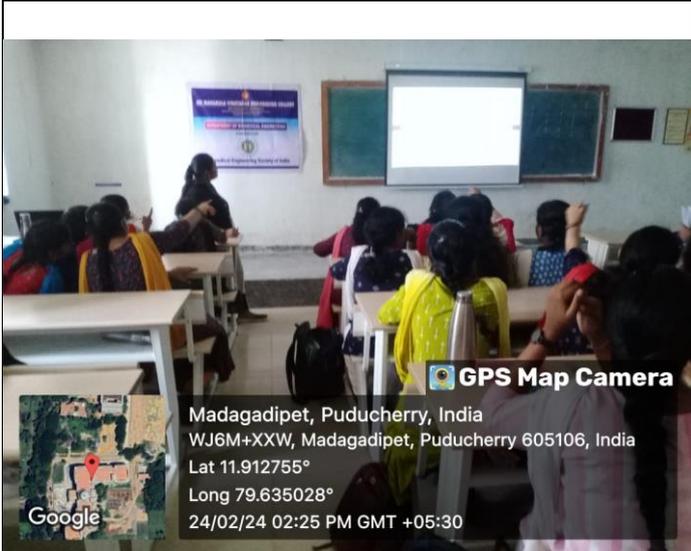
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DETAILS OF CLUB ACTIVITY

Name of the Staff in-charge/ Program Coordinator		Mrs.T.Logasundari					
Duration & Venue of the Activity							
Date	24.02.2024	Day	Saturday	Duration of Activity	1.50 p.m to 2.30 p.m	Venue / Online Platform	Classroom
Details of the Club Members who executed this activity							
S. No	Year / Sem	Name of the Club Members					
1	I/II	L.Gayathri K.S.Sujithasree V.Anandhavelan					
Details of the Class							
Year	I	Semester	II	Total strength of the class	46		
Number of students Present		45		No. of Students Absent	1		
Roll Numbers of Absentees (in order)							
23UBM013							
PURPOSE/DETAILS OF THE CLUB ACTIVITIES & ITS CONTENT (500 Words)							
<ul style="list-style-type: none">• Presenting a problem statement can foster communication and collaboration among the students by providing a common starting point for discussions. This objective involves promoting dialogue, sharing perspectives, and encouraging collaboration across disciplines, departments, or organizations.• This objective involves discussing the implications of the problem for patient care, healthcare policy, and societal well-being, and encouraging students to reflect on their professional responsibilities as future healthcare professionals.• Students presented about the drawbacks of artificial organs, they likely aim to provide insight into the limitations and challenges associated with current artificial organ technologies.• Explained about some artificial organs may not be fully biocompatible with the body, leading to adverse reactions such as inflammation, tissue rejection, or infection. Ensuring compatibility with the body's immune system remains a significant challenge in artificial organ development.• They said about Implanting artificial organs and its invasive surgical procedures, which carry inherent risks such as bleeding, infection, anesthesia-related complications, and post-operative recovery issues.							





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DEPARTMENT OF BIOMEDICAL ENGINEERING

Name of the activity	:	Problem Discussion
Name of the Club	:	Bioresearch Club
Date / Day of Activity	:	24.02.2024 / Saturday
Number of Members Present	:	55
Activity executed (Year / Semester)	:	II/IV
Number of Students participated	:	55
Objective of the Activity	:	<ul style="list-style-type: none">• The aim of discussing problem statements is to increase understanding and awareness of a particular issue or challenge among the medical world and to provide up-to-date information about it.• The objective is to encourage exchange of ideas among participants to explore different perspectives and potential solutions to the problem and to facilitate networking and collaboration opportunities.
Outcome of the Activity	:	<ul style="list-style-type: none">• The students develop concrete action plans or strategies to tackle the problem, outlining steps, responsibilities, and timelines for implementation.• Discussing a problem with a group aims to gather various diverse perspectives about the presented problem facilitating a more comprehensive approach to finding a solution.• The ultimate outcome is to catalyse positive change and progress towards resolving the presented problem, with lasting impacts on individuals, communities, or society at large.



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DETAILS OF CLUB ACTIVITY

Name of the Staff in-charge/ Program Coordinator		Mrs.T.Logasundari					
Duration & Venue of the Activity							
Date	24.02.2024	Day	Saturday	Duration of Activity	9.50 am to 10.40 am	Venue / Online Platform	Classroom
Details of the Club Members who executed this activity							
S. No	Year / Sem	Name of the Club Members					
1	II/IV	Gouri Nanda R Abirami V Praveen M Thanigaivel V R Gokularamanan K					
Details of the Class							
Year	II	Semester	IV	Total strength of the class	55		
Number of students Present		55		No. of Students Absent	0		
Roll Numbers of Absentees (in order)							
PURPOSE/DETAILS OF THE CLUB ACTIVITIES & ITS CONTENT (500 Words)							
<ul style="list-style-type: none">• Discussing or presenting a problem encourages students to exchange ideas, fosters collaboration among peers with similar interests, and assists them in reaching a solution.• It can also raise awareness about potential health risks and safety concerns that needs to be addressed in the solution.• Reporting on innovations and technological advancements can have economic consequences by attracting investment, promoting entrepreneurship, and driving economic growth in technology-related sectors.• Group discussions simulate real-world scenarios, making them valuable for interview preparation and debate competitions.• Participants learn how to handle disagreements constructively and resolve conflicts through dialogue and compromise.• These activities provide students with opportunities to learn, grow, and develop essential skills that will benefit them both academically and in their future careers.							





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DEPARTMENT OF BIOMEDICAL ENGINEERING

Name of the activity	:	Presentation of Problem Statement
Name of the Club	:	Bioresearch Club
Date / Day of Activity	:	24.02.2024 / Saturday
Number of Members Present	:	39
Activity executed (Year / Semester)	:	III/VI
Number of Students participated	:	39
Objective of the Activity	:	<ul style="list-style-type: none">• To raise awareness about specific healthcare needs, gaps, or issues affecting a particular patient population, community, or healthcare system.• To identify challenges in diagnosis and treatment processes, such as delays in diagnosis, misdiagnosis, or suboptimal treatment outcomes.• This objective involves fostering collaboration and partnership among diverse stakeholders to develop comprehensive approaches to addressing complex medical issues.
Outcome of the Activity	:	<ul style="list-style-type: none">• Students understand the complexity of healthcare challenges and issues faced by patients, healthcare providers, and healthcare systems.• To stimulate critical thinking skills by presenting a problem statement that requires analysis, evaluation, and synthesis of information from multiple sources.• To enhance research skills by presenting a problem statement that requires students to conduct literature reviews, gather evidence, analyse data, and formulate research questions or hypotheses.



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DETAILS OF CLUB ACTIVITY

Name of the Staff in-charge/ Program Coordinator		Mrs.T.Logasundari					
Duration & Venue of the Activity							
Date	24.02.2024	Day	Saturday	Duration of Activity	1.15 p.m to 2.55 p.m	Venue / Online Platform	Classroom
Details of the Club Members who executed this activity							
S. No	Year / Sem	Name of the Club Members					
1	III/VI	R. Varssha R. Yuvaranjini S. Giridharan K. Gobikrishna R. Kishorkumar					
Details of the Class							
Year	III	Semester	VI	Total strength of the class	39		
Number of students Present		39		No. of Students Absent		0	
Roll Numbers of Absentees (in order)							
PURPOSE/DETAILS OF THE CLUB ACTIVITIES & ITS CONTENT (500 Words)							
<ul style="list-style-type: none">Presenting a problem statement can foster communication and collaboration among the students by providing a common starting point for discussions. This objective involves promoting dialogue, sharing perspectives, and encouraging collaboration across disciplines, departments, or organizations.This objective involves discussing the implications of the problem for patient care, healthcare policy, and societal well-being, and encouraging students to reflect on their professional responsibilities as future healthcare professionals.Students presented about the drawbacks of artificial organs, they likely aim to provide insight into the limitations and challenges associated with current artificial organ technologies.Explained about some artificial organs may not be fully biocompatible with the body, leading to adverse reactions such as inflammation, tissue rejection, or infection. Ensuring compatibility with the body's immune system remains a significant challenge in artificial organ development.They said about Implanting artificial organs and its invasive surgical procedures, which carry inherent risks such as bleeding, infection, anesthesia-related complications, and post-operative recovery issues.							





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DEPARTMENT OF BIOMEDICAL ENGINEERING

Name of the activity	:	Presentation about AI in Healthcare
Name of the Club	:	Bioresearch club
Date / Day of Activity	:	02.03.2024 / Saturday
Number of Members Present	:	46
Activity executed (Year / Semester)	:	I/II
Number of Students participated	:	46
Objective of the Activity	:	<ul style="list-style-type: none">• AI in healthcare can enhance preventive care and quality of life, produce more accurate diagnoses and treatment plans, and lead to better patient outcomes overall.• To promote synergy between humans and AI.• AI can also predict and track the spread of infectious diseases by analyzing data from a government, healthcare, and other sources.
Outcome of the Activity	:	<ul style="list-style-type: none">• Students understand about AI uses in medical field.• Students understand the purpose of AI in medical field and how to use it ethically.• Students understand that using AI can increase their accuracy and its uses all over in medical field.



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Name of the Staff in-charge/ Program Coordinator		Mrs.T.Logasundari					
Duration & Venue of the Activity							
Date	02.03.2024	Day	Saturday	Duration of Activity	1.50 p.m to 2.30 p.m	Venue / Online Platform	Classroom
Details of the Club Members who executed this activity							
S. No	Year / Sem	Name of the Club Members					
1	I/II	L. Gayathri K.S. Sujitha Sree V. Anandhavelan					
Details of the Class							
Year	I	Semester	II	Total strength of the class		46	
Number of students Present		46		No. of Students Absent		-	
Roll Numbers of Absentees (in order)							
-							
PURPOSE/DETAILS OF THE CLUB ACTIVITIES & ITS CONTENT (500 Words)							
<ul style="list-style-type: none">• Presenting a problem statement can foster communication and collaboration among the students by providing a common starting point for discussions. This objective involves promoting dialogue, sharing perspectives, and encouraging collaboration across disciplines, departments, or organizations.• This objective involves discussing the implications of the problem for patient care, healthcare policy, and societal well-being, and encouraging students to reflect on their professional responsibilities as future healthcare professionals.• Students presented about the drawbacks of artificial organs, they likely aim to provide insight into the limitations and challenges associated with current artificial organ technologies.• Explained about some artificial organs may not be fully biocompatible with the body, leading to adverse reactions such as inflammation, tissue rejection, or infection. Ensuring compatibility with the body's immune system remains a significant challenge in artificial organ development.• They said about Implanting artificial organs and its invasive surgical procedures, which carry inherent risks such as bleeding, infection, anesthesia-related complications, and post-operative recovery issues.							





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Name of the activity	:	Presentation of Problem Statement
Name of the Club	:	Bioresearch Club
Date / Day of Activity	:	02.03.2024 / Saturday
Number of Members Present	:	36
Activity executed (Year / Semester)	:	III/VI
Number of Students participated	:	36
Objective of the Activity	:	<ul style="list-style-type: none">• Crafting a problem statement involves conducting thorough research and analysis of existing literature, data, and trends in medicine. It helps students develop critical thinking skills and the ability to evaluate evidence-based solutions.• It offers an opportunity for interdisciplinary learning, where students can draw from various fields such as biology, psychology, sociology, and ethics to understand the multifaceted nature of healthcare problems.• Through presenting problem statements, students deepen their understanding of medical issues and their implications.
Outcome of the Activity	:	<ul style="list-style-type: none">• Problem statement presentations may lead to the implementation of proposed solutions, particularly if the identified problem is pressing and the solutions are feasible and well-supported by evidence.• Presenters can receive constructive feedback that helps them refine their skills and approaches for future academic or professional endeavours.• To stimulate critical thinking skills by presenting a problem statement that requires analysis, evaluation, and synthesis of information from multiple sources.



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Name of the Staff in-charge/ Program Coordinator		Mrs.T.Logasundari					
Duration & Venue of the Activity							
Date	02.03.2024	Day	Saturday	Duration of Activity	1.15 p.m to 2.55 p.m	Venue / Online Platform	Classroom
Details of the Club Members who executed this activity							
S. No	Year / Sem	Name of the Club Members					
1	III/VI	R. Varssha R. Yuvaranjini S. Giridharan K. Gobikrishna R. Kishorkumar					
Details of the Class							
Year	III	Semester	VI	Total strength of the class	39		
Number of students Present	36			No. of Students Absent	3		
Roll Numbers of Absentees (in order)							
21UBM037 21UBM023 21UBM015							
PURPOSE/DETAILS OF THE CLUB ACTIVITIES & ITS CONTENT (500 Words)							
<ul style="list-style-type: none">• Students understand the complexity of healthcare challenges and issues faced by patients, healthcare providers, and healthcare systems.• Explained about the Correct genetic mutations responsible for diseases like cystic fibrosis, sickle cell anemia, and certain cancers.• The future directions and opportunities for further research and innovation in CRISPR technology is presented evidently.• The presentation aims to educate and engage the students in the potential benefits and ethical implications of gene editing using CRISPR.• Students gain a deeper understanding of the principles and applications of CRISPR technology, including its potential to revolutionize various fields such as healthcare, agriculture, and biotechnology.• Discussed about the emerging applications of CRISPR in environmental research and conservation efforts.• CRISPR technology is evolving rapidly, with new breakthroughs and innovations emerging frequently. Regular presentations on CRISPR can help the students stay updated on the latest advancements and developments in the field.							





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DEPARTMENT OF BIOMEDICAL ENGINEERING

Name of the activity	:	Poster Presentation
Name of the Club	:	Bioresearch Club
Date / Day of Activity	:	23.03.2024 / Saturday
Number of Members Present	:	55
Activity executed (Year / Semester)	:	II/IV
Number of Students participated	:	55
Objective of the Activity	:	<ul style="list-style-type: none">• The aim of a poster presentation is to effectively communicate information, research findings, or project outcomes in a visually engaging and concise manner.• The primary objective of a poster presentation is to share complex ideas, data, and concepts into easily understandable and concise visually appealing format to increase understanding about the project.
Outcome of the Activity	:	<ul style="list-style-type: none">• The students develop concrete understanding through a visually appealing format which promotes curiosity and better comprehension.• Poster presentations lead to discussions and feedback from viewers from which the presenter may receive valuable insights, suggestions, or critiques that can help improve their work or guide future research directions.• The ultimate outcome is to advance the collective understanding, knowledge, and impact of the presentation within a particular discipline contributing to resolving the problems discussed.



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Name of the Staff in-charge/ Program Coordinator		Mrs.T.Logasundari					
Duration & Venue of the Activity							
Date	23.03.2024	Day	Saturday	Duration of Activity	01:15 pm to 02:05 pm	Venue / Online Platform	Classroom
Details of the Club Members who executed this activity							
S. No	Year / Sem	Name of the Club Members					
1	II/IV	Gouri Nanda R Abirami V Praveen M Thanigaivel V R Gokularamanan K					
Details of the Class							
Year	II	Semester	IV	Total strength of the class	55		
Number of students Present		55		No. of Students Absent	0		
Roll Numbers of Absentees (in order)							
PURPOSE/DETAILS OF THE CLUB ACTIVITIES & ITS CONTENT (500 Words)							
<ul style="list-style-type: none">• Poster presentation encourages students to exchange ideas, fosters collaboration among peers with similar interests, and assists them in reaching a solution.• Poster presentations allows researchers to develop and hone essential skills such as communication, presentation, and visual storytelling, which are valuable for academic and professional growth.• It can also raise awareness about potential health risks and safety concerns that needs to be addressed in the solution.• Reporting on innovations and technological advancements can have economic consequences by attracting investment, promoting entrepreneurship, and driving economic growth in technology-related sectors.• Group discussions simulate real-world scenarios, making them valuable for interview preparation and debate competitions.• Participants learn how to handle disagreements constructively and resolve conflicts through dialogue and compromise.• These activities provide students with opportunities to learn, grow, and develop essential skills that will benefit them both academically and in their future careers.							

