



**ADHIYAMAAN COLLEGE OF  
ENGINEERING**  
**(AUTONOMOUS), HOSUR-635130**  
**DEPARTMENT OF ARCHITECTURE**



**NAAC**

**CRITERIA 2.3.1**

**PROBLEM SOLVING METHODOLOGY**

## 1. PROJECT COMPETITIONS

Students participated and won prizes in both zonal level and National level NASA (National Association for Students of Architecture) and Participated in the National level design competition INTACH Heritage awards , GRIHA design competition , IGBC AND Ethos, Building for a Billion(An International Design Competition for Housing Every Indian)

# National, International Competitions & Awards

**“Building for a Billion”- 2018**  
**An International Design Competition for**  
**Housing Every Indian**



➤Our Final year students- Mr. Kamaal Basha, Ms. Madhumitha, Ms. Akshaya, Mr. Leander won the Jury Commendation award in the year April 2018 at Mumbai.



**Participated and got shortlisted in “Arch Cult 19”, symposium conducted by NIT, Trichy**



**ARCH CULT 19, NIT TRICHY**

**Participated in ‘Oculus 19’, symposium conducted by Excel College of Architecture and Planning, Namakkal.**



**OCULUS 19, EXCEL COLLEGE SALEM**

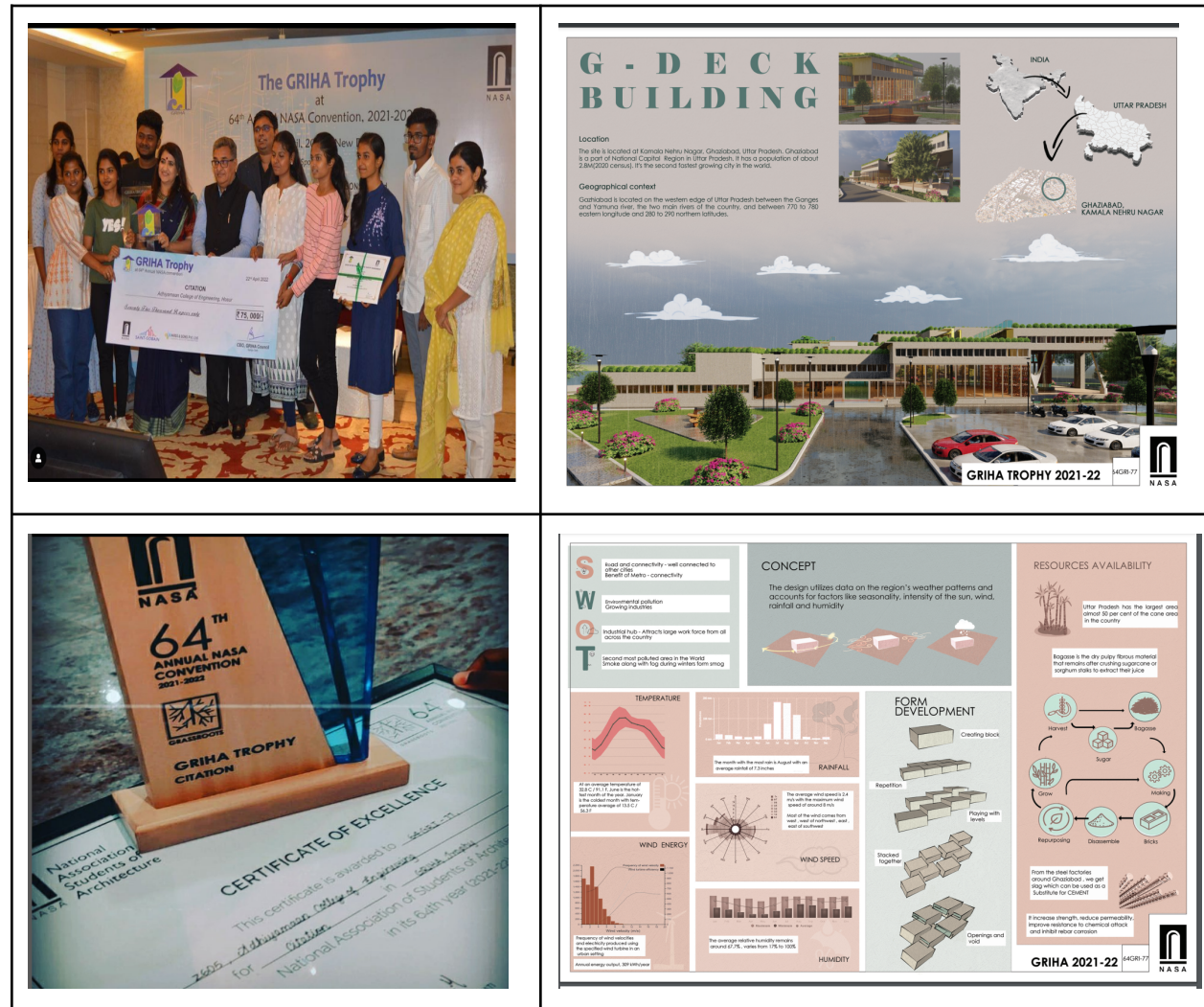


## GRIHA TROPHY 21-22

The brief for this year's competition involved designing of the prestigious GST Building for Government of India. The site was located in Kamla Nehru Nagar, Ghaziabad and had a net plot area of 8,959.1 sq.m.

More than 50 colleges from all over India submitted their entries for the competition. Out of these 16 entries were shortlisted for the audio visual round. The panel of the jury included, Ar. Akash Deep, Area Convenor And Senior Program Manager- GRIHA Council, Ar. Ankit Bhalla, Deputy Manager – GRIHA Council, Ar. Monish Siripurapu, Principal Architect - Studio ANT, Ar. Rashmi Dagar, Principal Architect- MRSS Sons Pvt. Ltd., Architect Trupti Doshi, Founder- Auroma Group and Mr. Venugopal, Manager – Design, Saint Gobain India Pvt. Ltd. Glass business.

**Our students Anurathi A S, Charu Sri B, Devi Dharshini D J, Kavi Priya M, Pauline Mercy A, Sakthi Pooja, Maria Justin S got citation in griha trophy 2021-202122**





## 2 TUTORIAL HOURS

We have also incorporated the subjects like Architectural drawing, Materials & construction related to problem solving skills through practice in the Curriculum itself.

SL.NO	SEMESTER	COURSE CODE	COURSE NAME	COURSE FACULTY
1.	I	118ART04	Materials and Construction I	AR.SRINIDHI.M / AR.SURENDRA KUMAR
2.	II	218ART04	Architectural Drawing - II	AR. SRIMADHI.M / AR. HEMALATHA.G
3.	II	218ART05	Materials and Construction - II	AR.KAVIMOZHI.V / AR.KARTHIKEYAN.K
4.	II	218ARP06	Architectural Design Studio - I	AR.SHARVINI.K.M/ AR.ANURADHA KIRAN
5.	III	318ART04	Materials and Construction – III	AR.MERLEY.V / AR.RAMESH.C.S.T
6.	III	318ARP07	Architectural Design - II	AR.SINDHU.S / AR.AR.VIJAYALAKSHMI .S
7.	IV	418ART04	Materials and Construction – IV	AR.ANAND KUMAR.V / AR.PRADEEPA DEVI.S.R
8.	IV	418ARP05	Architectural Design - III	AR.KAVIYA.A / AR.THAMBIRAJAH.G
9.	V	518ART03	Materials and Construction - V	AR.GAYATHRI.S / AR.DINESH.J
10.	V	518ARP05	Architectural Design - IV	AR.GOKULA PRIYA.I / AR.DEEPA JAYESH
11.	VI	618ART04	Materials and Construction - VI	AR.KRUTHIKA. M / AR. NITHYA.V

12.	VI	618ARP05	Architectural Design - V	AR. ABUTHALIB.S.J.B / AR. MADHAN KUMAR.M
13.	VII	718ARP03	Architectural Working Drawing & detailing	AR.SELVAKUMAR.C.N / DR.SEETHA.R
14.	VII	718ARP04	Architectural Design - VI	AR.CHANDRAKISHORE. B. M / AR.DIVYA.V
15.	VIII	818ARP04	Architectural Design - VII	AR.MITHUN.L.R / AR. RAJESWARI.K



**HOD**

**Dr. SEETHA.R**, M.Arch., Ph.D, AIIA  
Professor & Head  
Department of Architecture  
Adhiyamaan College of  
Engineering (Autonomous)  
Dr. M.G.R. Nagar, Hosur-635 109.

**AIM:**

- To develop the skill of representation in advanced drawing techniques and building documentation.

**OBJECTIVES:**

- To involve students in a number of exercises that will help them develop the skill of representation in advanced drawing techniques involving perspective and sciography.
- To involve students in a number of exercises that will help to understand the measured drawing method to document buildings of architectural interest using simple and advanced techniques of representation.

**UNIT I : PLANS & SECTIONS OF BUILDINGS****15Hrs**

Introduction to the basic principles of drawing - scale conversion. Graphical representation of plans and sections of buildings. Floor plans, elements above and below plan cut, reflected ceiling plan, site plan with contours, site sections, building elevations, section of buildings.

**UNIT II PERSPECTIVE: SCIENTIFIC METHOD****15 Hrs**

Concepts and methods of perspective drawing. One point and two point perspective of simple geometrical shapes like cube, prism, combination of shapes, simple one, two and three-point perspective of building interiors and exteriors. Adding figures, trees, furniture, shade and shadows and applying rendering techniques.

**UNIT III PERSPECTIVE: SHORT CUT METHOD****15 Hrs**

Introduction to short cut perspective method. Adding figures, trees, furniture, shade and shadows and applying rendering techniques.

**UNIT IV SCIOGRAPHY****15 Hrs**

Principles of shade and shadow – construction of shadow of simple geometrical shapes – construction of sciography on building, shadows of architectural elements.

**TOTAL: 60 HOURS**



## OUTCOMES

- The techniques and skills gained learned through this subject Architectural drawing II is very useful to their profession
- Able to construct the perspective drawings of the buildings and 3d views as well the documentation of buildings through drawings.

## REQUIRED READING

1. John M.Holmes, Applied Perspective, Sir Isaac, Piotman and Sons Ltd., London 1954.
2. Robert W.Gill, Basic Perspective, Thames and Hudson, London, 1974.
3. C.Leslie Martin, Architectural Graphics, The Macmillan Company, New York, 1964.
4. Francis Ching, Architectural Graphics, Van Nostrand and Reinhold Company, NY 1975

## REFERENCES:

1. Claude Batley, Indian Architecture, D.B.Taraporevala Sons and Co., Ltd., Bombay
2. William Kirby Lockard, Drawing as a Means to Architecture, Van Nostrand, Reinhold Company, New York.
3. George A Dinsmore, Analytical Graphics – D.VanNostrand, Company Inc., Canada.
4. Interiors: Perspective in Architectural Design Graphic - SMA Publishing Co. Ltd., Japan, 1967.
5. Ernest Norling, Perspective drawing, Walter Foster Art Books, California, 1986.
6. Bernard Alkins- 147, Architectural Rendering, Walter Foster Art Books, 1986.
7. RoberW.Gill, Advanced Perspective, Thames and Hudson, London, 1974

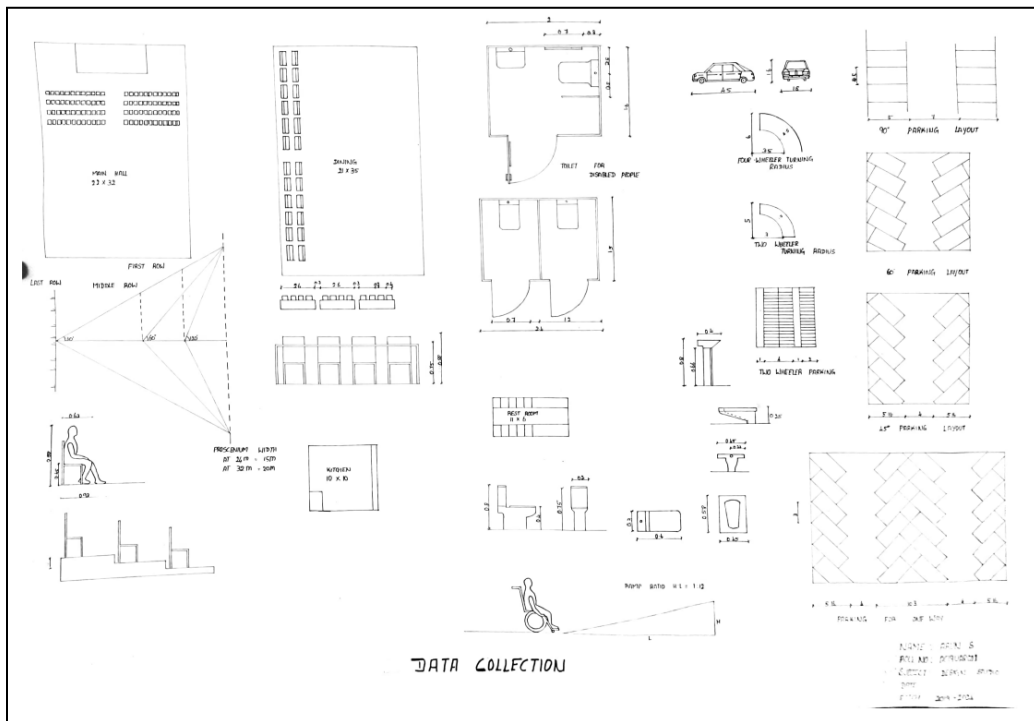


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Students drafting the construction details in architectural design studio hours



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 Department of Architecture  
 Adhityamaan College of  
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 Dr. M.G.R. Nagar, Hosur-635 109.

### 3 .HIGHER ORDER ASSIGNMENT

Students have been given higher order assignments to develop their own ideology in the design of architectural buildings.

We have subjects like Product design and BIM, in which students develop their skill in designing products of various scales.

SL.NO	SEMESTER	COURSE CODE	COURSE NAME	COURSE FACULTY
1	VI	618ARE02	PRODUCT DESIGN	AR.ARUN KUMAR. A / AR.PAVENTHAN.A
2	VI	618ARE02	BIM	AR.SHARVINI.K.M./ AR.



**HOD**

**Dr. SEETHA.R.,M.Arch.,Ph.D,AIIA**  
Professor & Head  
Department of Architecture  
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**AIM:**

To introduce the students about the current Building Information Modeling (BIM and its role of BIM in the Construction Engineering and Management; Revit Architecture, Structure, and MEP; Creating sets, building elements, structural systems, and MEP systems; BIM and clash detection; BIM and Construction Cost Estimating and Scheduling

**OBJECTIVES:**

- Ø To equip students with skills and information to build comprehensive Building Information Models (BIM) using appropriate Digital software and Media.
- Ø Application of BIM skills / knowledge to construction domain knowledge.
- Ø To enable the student to experience how to work in teams which are exposed to a holistic view of building industries.

**UNIT I INTRODUCTION TO THE FUNDAMENTALS 15 Hrs**

Key concepts of BIM - reading and manipulating the software Interface - navigating within views – selection methods - the importance of levels and grids- creating walls, doors, windows, and components - working with essential modification commands and load family. Creating floors, ceilings, and stairs - working with type and instance parameters – importing drawings - understanding the project browser and type properties palettes - adding sheets - inserting views onto sheets - adding dimensions and text to the mode and plotting.

**UNIT II ADVANCED MODELING – FAMILY TYPES & TOPO SURFACE MODELING 20 hrs**

Creating curtain walls, schedules, details, a custom family, and family types - “flex” a family with family types and work with reference planes - creating rooms and an area plan – tag components – customize existing wall styles. Create and edit a topo-surface, add site and parking components - draw label contours - work with phasing - understand groups and links - work with stacked walls - and learn the basics of rendering and create a project template.

**UNIT III RENDERING AND MATERIAL APPLICATION 15 Hrs**

Choosing material for buildings- Creating custom walls, floors, and roofs - keynoting – working with mass elements - enhancing rendering with lighting - producing customized materials - Using sun and shadow settings - Walkthrough technique - adding decals - working with design options and worksets - and calculating energy analysis - managing revisions.

## **UNIT IV BIM FOR BUILDING ENERGY SIMULATION**

**10 Hrs**

Energy simulation for conceptual BIM models using massing- Detailed modeling using design elements- Rapid energy modeling and simulation with software. Conceptual Energy Analysis features to simulate performance. To produce energy consumption, carbon neutrality and renewable potential reports.

## **UNIT V BIM FOR COST ESTIMATING, PROJECT PHASING AND ADMINISTRATION 15 Hrs**

Introduction and theoretical information on the following topics- Model based Cost Estimating – Challenges in cost estimating with BIM- Cad geometrics vs BIM element description- Visual data models - Material substitutions and value engineering- detailed estimates and take off sheets- XML and automated cost estimate- project phasing and management- 4D modeling - BIM for project lifecycles.

**TOTAL: 75 Hrs**

### **OUTCOMES:**

- Ø This is a project-based course where students gain knowledge on the implementation of BIM concepts throughout the lifecycle of a building, from planning and design, to construction and operations.
- Ø The students will learn about how to use BIM for building energy performance simulation, construction administration.
- Ø Students will learn different aspects of collaborative modelling, BIM based scheduling, estimating.

### **TEXT BOOKS:**

1. Instructors' Lecture Materials, Notes and Handouts.
  1. Blackboard (course management)
  2. Eastman, C., Teicholz, P., Sacks, R., & Liston, C. (2011). BIM handbook: A guide to building information modeling for owners, managers, designers, engineers and contractors. John Wiley & Sons.
2. Hardin, B., & McCool, D. (2016). BIM and construction management: proven tools, methods, and workflows. John Wiley & Sons

### **REFERENCES:**

1. BIM Authoring: Revit Architecture 2012/Structures/MEP - FREE students <http://students5.autodesk.com/>
2. Navisworks - <http://navisworks.com/> (model review & clash detection)
3. Solibri - <http://www.solibri.com/> (model review & clash detection) Synchro - [http://www.synchrold.com/\(4D scheduling\)](http://www.synchrold.com/(4D%20scheduling))
4. Autodesk QTO - FREE for students: <http://students5.autodesk.com/>
5. Horizontal Glue: <http://www.horizontalsystems.com> Surveys: Students will fill out surveys for the class to provide feedback on teamwork and the course.

**Building Information Modeling (BIM)** is the foundation of digital transformation in architecture. As the leader in BIM, Autodesk is the industry's partner to realize better ways of working and better outcomes for business and the built world





1 Level 1  
 1:100

2 (3D) Gambrel Roof

3 Section 1 - Callout 1  
 1:10

4 North Exterior Trombe Wall  
 1:100

5 Section 2 Interior Exposed Brick Work  
 1:100

ADHIYAMAAN COLLEGE OF ENGINEERING	MARKS:	SIGNATURE:	REMARKS:
DEPARTMENT OF ARCHITECTURE			
SUBJECT: BUILDING INFORMATION MODELLING			

<b>1BHK PLAN - Trombe Wall</b>			
NAME	C.HEMASAGAR	SHEET NO	07
REG NO	AC19UAR051	BATCH	2019 - 2024
CLASS	3rd YEAR 'A' SECTION	DATE	13.03.2022
SCALE	1:100		

S.NO: 2 ADHIYAMAAN COLLEGE OF ENGINEERING	BUILDING INFORMATION MODELING 1BHK(ASSIGNMENT 2)	NAME: NAVEEN GANESH K REG.NO: AC19UAR055 YEAR& SEC: 3RD B
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 HOD

**Dr. SEETHA.R.M.** Arch., Ph.D, AIIA  
 Professor & Head  
 Department of Architecture  
 Adhiyamaan College of  
 Engineering (Autonomous)  
 Dr. M.G.R. Nagar, Hosur-635 109.



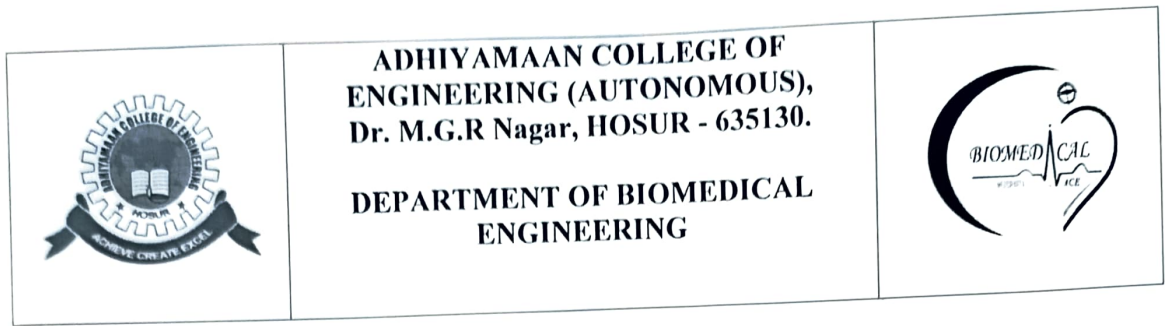
**ADHIYAMAAN COLLEGE OF  
ENGINEERING (AUTONOMOUS),  
Dr. M.G.R Nagar, HOSUR - 635130.**

**DEPARTMENT OF BIOMEDICAL  
ENGINEERING**



## **Criteria 2.3.1**

### **Student Centric Methods**



### **Problem Solving Methodologies:**

#### **A) Mini Project:**

A mini project is a smaller project that is completed in a shorter time frame than a traditional research project. Mini project are used to give students practice with the research process and to help them learn how to develop and complete a research project. It helps students to explore and strengthen the understanding of fundamentals through practical application of theoretical concepts. It can help student to boost their skills and widen their horizon of thinking. It acts like a beginners guide to do larger projects later in their career.

## BONAFIDE CERTIFICATE

Certified that this Mini project report - DEVELOPMENT OF BIOSENSOR BASED INTELLIGENT ORTHOPEDIC VEST is the bonafide work of AKASHRAGAV K (AC18UBM002), AKHIL P (AC18UBM003), PRAKASH N (AC18UBM036), RAJESH A (AC18UBM038) who carried out the project work under my supervision.



SIGNATURE

Dr. T.S. UDHAYA SURIYA, M.E., Ph.D.,

HEAD OF THE DEPARTMENT,

PROFESSOR,

Department of BME,

Adhiyamaan College of Engineering,

Dr. M.G.R Nagar,

Hosur- 635 130.



SIGNATURE

Dr. N.BAGYALAKSHMI, M.E., Ph.D.,

SUPERVISOR,

ASSOCIATE PROFESSOR,

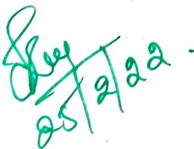
Department of BME,

Adhiyamaan College of Engineering,

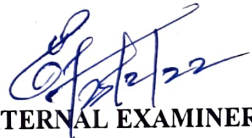
Dr. M.G.R Nagar,

Hosur-635 130.

Submitted for the project VIVA-VOCE Examination  
held on 25/02/2022 at Adhiyamaan College of  
Engineering (Autonomous), Hosur- 635 130.



INTERNAL EXAMINER



EXTERNAL EXAMINER



**ADHIYAMAAN COLLEGE OF  
ENGINEERING (AUTONOMOUS),  
Dr. M.G.R Nagar, HOSUR - 635130.**

**DEPARTMENT OF BIOMEDICAL  
ENGINEERING**



**B) Project:**

A project is a set of tasks that must be completed in order to arrive at a particular goal or outcome. Depending on the size and scope of the project, these tasks may be simple elaborate, but all the projects can be broken down into objectives and what needs to be done to achieve them.



## BONAFIDE CERTIFICATE

Certified that this project report “STEREOTYPED BEHAVIOUR IN AUTISM SPECTRUM DISORDERS” is the Bonafide work of “AKASH S (AC18UBM001), HARIHARAN C K (AC18UBM0017), JAYASURYA S (AC18UBM020), MOHAMMED AMEENUL ISLAM N (AC18UBM031)” who carried out the project under my supervision.

**SIGNATURE**

**Dr.T.S. UDHAYA SURIYA, M.E., PhD.**  
**HEAD OF THE DEPARTMENT,**  
**PROFESSOR,**  
Department of Biomedical Engineering,  
Adhiyamaan College of Engineering,  
(Autonomous).  
Hosur-635130.

**SIGNATURE**

**Dr.T.S. UDHAYA SURIYA, M.E., PhD.**  
**SUPERVISOR,**  
**PROFESSOR,**  
Department of Biomedical Engineering,  
Adhiyamaan College of Engineering,  
(Autonomous).  
Hosur-635130.

Submitted for the Project VIVA-VOICE Examination held on 08.06.2022 at  
Adhiyamaan College of Engineering (Autonomous), Hosur-635130.

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**



**ADHIYAMAAN COLLEGE OF  
ENGINEERING (AUTONOMOUS),  
Dr. M.G.R Nagar, HOSUR - 635130.**

**DEPARTMENT OF BIOMEDICAL  
ENGINEERING**



### **C) Hackathon:**

A hackathon, also known as a codefest, is a social coding event that brings computer programmers and other interested people together to improve upon or build a new software program.

<b>S.NO</b>	<b>REGISTER NO</b>	<b>NAME</b>	<b>REMARKS</b>
1	AC19UBM018	LYDIA M	SECURED 1 <sup>st</sup> PLACE IN PAPER PRESENTATION AND PARTICIPATED IN SIH HACKATHON
2	AC19UBM020	MAMATHA M	PARTICIPATED IN SIH HACKATHON
3	AC19UBM030	SARANYA V	SECURED 1 <sup>st</sup> PLACE IN PAPER PRESENTATION AND PARTICIPATED IN SIH HACKATHON
4	AC19UBM034	SOUMYA V	SECURED 1 <sup>st</sup> PLACE IN PAPER PRESENTATION AND PARTICIPATED IN SIH HACKATHON
5	AC19UBM040	VEMALA M	PARTICIPATED IN SIH HACKATHON



SMART INDIA  
HACKATHON  
2022



## Certificate Of Participation

*Internal Hackathon*

This Certificate is awarded to

**LYDIA.M**

of Team **RUBIX**

for participating in Internal Hackathon held on **MARCH 17, 2022**

at **ADHIYAMAAN COLLEGE OF ENGINEERING**

Dr. G. Fathima  
HOD/CSE

Dr. G. Ranganath  
Principal





SMART INDIA  
HACKATHON  
2022



## Certificate Of Participation

*Internal Hackathon*

This Certificate is awarded to  
**SARANYA.V**

of Team **RUBIX**

for participating in Internal Hackathon held on **MARCH 17, 2022**

at **ADHIYAMAAN COLLEGE OF ENGINEERING**

**Dr. G. Fathima**  
HOD/CSE

**Dr. G. Ranganath**  
Principal





SMART INDIA  
HACKATHON  
2022



## Certificate Of Participation

### *Internal Hackathon*

This Certificate is awarded to

**SOUMYA.V**

of Team **RUBIX**

for participating in Internal Hackathon held on **MARCH 17, 2022**

at **ADHIYAMAAN COLLEGE OF ENGINEERING**

Dr. G. Fathima  
HOD/CSE

Dr. G. Ranganath  
Principal



**ADHIYAMAAN COLLEGE OF  
ENGINEERING (AUTONOMOUS),  
Dr. M.G.R Nagar, HOSUR - 635130.**

**DEPARTMENT OF BIOMEDICAL  
ENGINEERING**



**D) Competitive Exams:**

Competitive exams are mostly conducted by government organizations, central and state universities as entrance for post graduate programme.



# TANCET 2022

## TAMIL NADU COMMON ENTRANCE TEST

### ANNA UNIVERSITY, CHENNAI



**MOHAMMED FAWAZ S [124852]**

**Reg. Number** : 19553048  
**Gender** : Male  
**Nativity** : Tamil Nadu  
**Date of Birth** : 05-03-2001  
**Community** : BCM  
**Nationality** : Indian  
**Entrance Test** : M.E/M.Tech/M.Arch/M.Plan Only  
**Subject Choice** :

**Signature of the candidate**

*S. Mohammed Fawaz*

#### TANCET 2022

Exam	Actual Score	Percentile Score	Number of candidates appeared
MCA	---	---	---
MBA	---	---	---
ME(ON SUBJECT CHOICE)	1	25.275	
ME(OVERALL)	1	20.014	5671




- Percentile Score will be considered for Merit List
- Score card will not be sent by post.
- Candidates have to apply separately for admission in College/Institution.
- For M.E/M.Tech, overall percentile score will be considered for Merit List
- For M.E/M.Tech overall percentile score is calculated after normalization
- Percentile Score is the percentage of number of candidates scored less than your score.
- Score card will be released on **June 10, 2022** and that will be available till **June 30, 2022**

## MAT-Score® Management Aptitude Test



TEST MONTH & YEAR	: FEBRUARY 2022		
REGISTRATION NUMBER	: 162527		
ROLL NUMBER	: 914210103		
NAME	: RASIKA B	DOB	: 20 DECEMBER 2000
GENDER	: FEMALE	CATEGORY	: OBC (NON CREAMY LAYER)
DEGREE	: BE BIOMEDICAL ENGINEERING	WORK EXPERIENCE	: NOT WORKING
FATHER'S NAME	: BABU S	MOTHER'S NAME	: LAKSHMI M

### SCALED SCORES

Language Comprehension		Mathematical Skills		Data Analysis & Sufficiency		Intelligence & Critical Reasoning		Indian & Global Environment	
Scaled Score	Percentile Below	Scaled Score	Percentile Below	Scaled Score	Percentile Below	Scaled Score	Percentile Below	Scaled Score	Percentile Below
48.25	38.88	48.28	51.85	52.85	68.34	45.20	32.79	51.10	34.96
Composite Score			Percentile Below		SCORE VALID UPTO: FEBRUARY 2023		 DIRECTOR		
525.50			44.96						

Note:

- Please refer to the website link <https://resources.aima.in/event/uploaded-file/mat-score-and-its-interpretation.pdf> to interpret your score
- Your score has already been advised to the institutes opted for by you.
- Score card to be downloaded from AIMA website only. Score card will NOT be sent by post or email.
- You must retain this score card for future reference and records.

### Management Aptitude Test and Test Scores

1. The Management Aptitude Test (MAT) is designed to measure the aptitude of a candidate for pursuing management education and should be used only for this purpose.
2. MAT is administered in five sections-Language Comprehension, Mathematical Skills, Data Analysis & Sufficiency, Intelligence & Critical Reasoning and Indian & Global Environment-each section testing a different ability relevant for management education.
3. All MAT administrations necessarily have different questions. Thus one administration may be slightly more difficult or less difficult than another. Scaling has been used to take care of these differences.
4. The scaled scores reported are standardised scores for respective sections. These scores are reported on a scale of 0 to 100. Extreme scores (below 15 or above 85) are rare.
5. The percentile below column indicates the percentage of candidates in the test who scored below that of the candidate in the section.
6. The Composite score is an overall scaled score based on the first four sections of MAT. This is reported on a scale of 199 to 801.
7. The percentile below for the Composite Score represents the percentage of candidates whose composite scores are below the candidate's. The composite score has a validity period of one year.
8. All scores and percentile below figures are reported after rounding off to the nearest whole number.
9. Personal data is as reported by the candidate.



**ADHIYAMAAN COLLEGE OF ENGINEERING**  
*(Autonomous)*  
**HOSUR -635130**  
**DEPARTMENT OF BIOTECHNOLOGY**

**NAAC**  
**CRITERIA 2.3.1**  
**PROBLEM SOLVING METHODOLOGIES**



### **3. Problem Solving Methodologies**

#### **a) Mini Project**

A mini project is a smaller project that is completed in a shorter time frame than a traditional research project.

Mini projects are used to give students practice with the research process and to help them learn how to develop and complete a research project. It helps students to explore and strengthen the understanding of fundamentals through practical application of theoretical concepts. It can help student to boost their skills and widen their horizon of thinking. It acts like a beginners guide to do larger projects later in their career.

ANNA UNIVERSITY : CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this mini project report "INVITRO STUDIES ON PHYTOCHEMICAL SCREENING, ANTIOXIDANT, ANTI-INFLAMMATORY AND ANTICANCER PROPERTIES OF *Morinda tinctoria* ROXB" is the bonafide work of "S.AKSHAYA, A.SUJITHAA and D.MALINI" who carried out the project work under my supervision.



SIGNATURE

Dr. V. MANIVASAGAN, M.Tech., Ph.D.,

PROFESSOR

HEAD OF THE DEPARTMENT

Department of Biotechnology,

Adhiyamaan college of Engineering,  
Engineering,

(Autonomous)

Dr. M.G.R Nagar, Hosur-635109



SIGNATURE

Mrs.S.KAVITHA, M.Tech.,

ASSISTANT PROFESSOR

SUPERVISOR

Department of Biotechnology,

Adhiyamaan college of

(Autonomous)

Dr. M.G.R Nagar, Hosur-635109

PRINCIPAL

Submitted for Viva -Voce Examination held on ~~05.11.2021~~ 05.11.2021.... at Adhiyamaan  
College of Engineering (Autonomous), Hosur.



INTERNAL EXAMINER



EXTERNAL EXAMINER



**AviGen BioTech Pvt Ltd.**

*Experiences Research Transform Life*

### CERTIFICATE

This is to certify that this dissertation entitled "IN VITRO STUDIES ON PHYTOCHEMICAL SCREENING, ANTIOXIDANT, ANTI-INFLAMMATORY AND ANTICANCER PROPERTIES OF MORINDA TINCTORIA ROXB." submitted to Department of Biotechnology, Adhiyamaan College of Engineering, Hosur, in partial fulfilment for the award of the degree of B.Tech. Biotechnology is a record of original work done by S. AKSHAYA (AC18UBT001), D. MALINI (AC18UBT023) and A. SUJITHAA (AC18UBT043) at AviGen BioTech Pvt Ltd., under my supervision and guidance, for a period of 20 days (9<sup>th</sup> July 2021 to 28<sup>th</sup> July 2021). This project has not been submitted to any other degree.

Date : 28.07.2021

Place : Chennai

**Dr. Balashanmugam. P**

Director



No. 7, First Floor, 1<sup>st</sup> Main Road, New Colony,  
Chromepet, Chennai 600044, Tamil Nadu.



+91-8946098013  
+91-9080339458



info@avigenbiotech.com  
avigenbiotech@gmail.com  
www.avigenbiotech.com

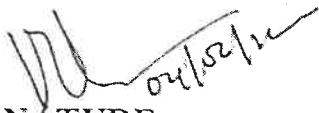
## **b) Project**

A project is a set of tasks that must be completed in order to arrive at a particular goal or outcome. Depending on the size and scope of the project, these tasks may be simple or elaborate, but all the projects can be broken down into objectives and what needs to be done to achieve them.

ANNA UNIVERSITY: CHENNAI 600 025

**BONAFIDE CERTIFICATE**

Certified that this project report "ESTIMATION ON THE INDUCTION OF APOPTOSIS BY ROS AND DNA FRAGMENTATION IN CANCER CELL BY AN ANTITUMOR ALKALOID CAMPTOTHECIN" is the bonafide work of "DEEPA R, ESTHER SUNEERAM H, ROJAMANI V" who carried out the project work under my supervision.



SIGNATURE

Dr.V. MANIVASAGAN, M.Tech, Ph.D.,

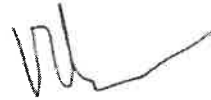
HEAD OF THE DEPARTMENT

Department of Biotechnology

Adhiyamaan College of Engineering  
(Autonomous)

Dr. M.G.R Nagar

Hosur 635130



SIGNATURE

Dr.V. MANIVASAGAN, M.Tech, Ph.D.,

HEAD OF THE DEPARTMENT

Department of Biotechnology

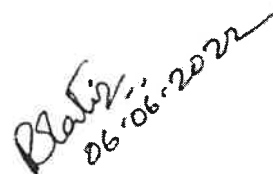
Adhiyamaan College of Engineering  
(Autonomous)

Dr. M.G.R Nagar

Hosur 635130

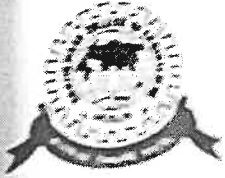
Submitted for Viva-voice Examination held on.....06/06/2022..... at  
Adhiyamaan College of Engineering (Autonomous), Hosur.

INTERNAL EXAMINER



EXTERNAL EXAMINER





DEPARTMENT OF BIOTECHNOLOGY  
ADHIYAMAAN COLLEGE OF ENGINEERING

(Autonomous)

Affiliated to Anna University - Chennai, Approved by AICTE, New Delhi.

Accredited by NBA, AICTE & NAAC with 'A' Grade - New Delhi.

Dr. M.G.R. Nagar, HOSUR - 535 130 Krishnagiri District, Tamil Nadu.

Phone : Dept : 04344 - 261033 Off : 04344 - 260570, 261001-3, 261020, 261034 Fax : 04344 - 260573

E-mail : hod\_bt@adhiyamaan.ac.in Website : www.adhiyamaan.ac.in

04/05/2022

CERTIFICATE

This is to certify that Ms. Deepa R (AC18UBT010), Ms. Esther Suneeram H (AC18UBT016) and Ms. Rojamani V (AC18UBT036) Final year B. Tech Biotechnology, Adhiyamaan College of Engineering (Autonomous), Hosur - 635 130, worked on a project entitled "ESTIMATION ON THE INDUCTION OF APOPTOSIS BY ROS AND DNA FRAGMENTATION IN CANCER CELL BY AN ANTI TUMOR ALKALOID CAMPTOTHECIN" from February 2022 to April 2022 under my guidance at Department of Biotechnology, Adhiyamaan College of Engineering (Autonomous), Hosur - 635 130, towards fulfillment of their Bachelor's degree.

  
SIGNATURE

Dr. V. MANIVASAGAN  
HEAD OF THE DEPARTMENT

  
SIGNATURE

Dr. V. MANIVASAGAN  
SUPERVISOR

### **c) Nidhi prayas**

NIDHI- PRAYAS Program is focused is to provide support/funding from idea to prototype to help – young and aspiring innovators. Innovators should use the PRAYAS grant, primarily to convert their ideas into prototype.

2018-19				
Nature of the Project	Duration	Name of the funding agency	Total grant Scancioned (Rupees in lakhs)	Amont received during the year (Rupees in lakhs)
Government	September 2018 – March 2019	NIDHI PRAYAS, DST Govt. of India.	0.025	0.025
Government	September 2018 – March 2019	NIDHI PRAYAS, DST Govt. of India	0.025	0.025
Government	September 2018 – March 2019	NIDHI PRAYAS, DST Govt. of India	0.025	0.025
Government	September 2018 – March 2019	NIDHI PRAYAS, DST Govt. of India	0.025	0.025
Government	September 2018 – March 2019	NIDHI PRAYAS, DST Govt. of India	0.025	0.025
Government	September 2018 – March 2019	NIDHI PRAYAS, DST Govt. of India	0.025	0.025
Government	September 2018 – May 2019	NIDHI PRAYAS, DST Govt. of India	0.025	0.025
Government	September 2018 – May 2019	NIDHI PRAYAS, DST Govt. of India	0.025	0.025
Government	September 2018 – May 2019	NIDHI PRAYAS, DST Govt. of India	0.025	0.025
Government	September 2018 – March 2019	NIDHI PRAYAS, DST Govt. of India	0.025	0.025



# DETI @ ACE

## Development of Entrepreneurship Through Incubation TECHNOLOGY BUSINESS INCUBATOR

(Registered Society No: 252/2011 under section 27 of Society act, TN)

Supported by

MINISTRY OF SCIENCE & TECHNOLOGY, GOVERNMENT OF INDIA

(Department of Science & Technology, New Delhi)

### ADHIYAMAAN COLLEGE OF ENGINEERING CAMPUS

DR. M.G.R. Nagar, Hosur - 635109, Krishnagiri (Dist), Tamilnadu.

Phone : Dept: 04344-261011 Off: 04344-260570, 261001-003. Fax: 04344-260573 E-mail: deti@adhiyamaan.ac.in



By Regd. Post	By Speed Post	By Courier	By Fax
---------------	---------------	------------	--------

Date: 20-07-2018

### OFFICE ORDER

The Members of Local Monitoring Committee of DETI@ACE-PRAYAS CENTRE are as under:

Sl. No	Name & Address	Designation
✓ 1	Dr. V. Manivasagan <i>Professor / Biotechnology</i>	Member
2	Dr. T.S. Udaya Surya <i>Professor &amp; Head / Biomedical</i>	Member
3	Dr. K. Sivakumar <i>Professor &amp; Head / Chemistry</i>	Member
4	Dr. D. Geetha <i>Professor / CSE</i>	Member
5	Dr. T. Menaka Devi <i>Professor / ECE</i>	Member
6	Dr. S. Sujatha <i>Professor &amp; Head / E&amp;I</i>	Member
7	Dr. K. Senthil Kumar <i>Professor / Mechanical Engg</i>	Member
8	Dr. S. Palanisamy <i>Professor / Civil, NITK, Surathkal</i>	Member
9	Dr. S. Suresh Babu <i>Chief Incubation Officer / DETI@ACE-TBI</i>	Member Secretary

Note: Duties & Responsibilities will be informed by Member Secretary.



CHAIRMAN  
DETI@ACE-TBI

copy to:

1. The Members of Local Monitoring Committee
2. The Office Manager
3. File



#### **d) MSME**

The Ministry of Micro, Small and Medium Enterprises is the ministry in the Government of India. It is the apex executive body for the formulation and administration of rules, regulations and laws relating to micro, small and medium enterprises in India.

## Ministry of Micro, Small and Medium Enterprises

The following Project ideas from Department of Biotechnology had registered for Ministry of Micro, Small and Medium Enterprises :-



S.no	Title
1.	Production of single use plastic from sago industrial waste effluent
2.	Antiuro lithiatic activity of synthesised silver nano particles using dried flower ( <i>Rosa centifolia</i> and <i>Ziziphus mauritiana</i> ) against urinary tract infection causing struvite urinary stone
3.	Design and development of desirable product from fresh waste weeds.
4.	Microbial fuel cell for generating bioelectricity
5.	Development of Absorbent layer for sanitary napkins from Agricultural waste ( <i>Zea mays</i> ) an alternative approach
6.	Production and Design of Membrane for purifying domestic pollutants
7.	Production of organic acid from used cotton and textile waste
8.	Preparation of pesticides from paper remains

### **e) Competitive exams**

Competitive exams are a particular kind of test used to evaluate student and assign them a grade, percentage, or percentile. The majority of these tests are administered at the state or federal level. In India, competitive tests are held for a variety of professions, including engineering, medicine, and law. The majority of these exams are administered annually, and millions of people take them. Such tests are designed to identify deserving and worthy individuals by requiring them to take the test in a fair and objective environment.



**DBT- JUNIOR RESEARCH FELLOWSHIP (DBT-JRF)  
Biotechnology Eligibility Test (BET) - 2021  
SCORE CARD**

Application Number	212904116139	Roll Number	KK0463030010	 
Candidate's Name	JAYASHREE B			
Mother's Name	SANTHI B			
Father's Name	BALAMURUGAN V			
Category	OBC-NCL	Person with Disability (PwD)	NO	
Gender	FEMALE	Date of Birth	08-01-2000	
Nationality	INDIAN			

**Biotechnology Eligibility Test (BET)**

Subject	Maximum Marks	Marks obtained
Section A	150	60
Section B	150	92
Total Score	300	152
NTA Score in Words	One Hundred Fifty Two Only	

Dated: 28/08/2021

  
Senior Director, NTA

1. This electronically generated BET 2021 Score Card is the official score Card declared by Department of Biotechnology (DBT), Government of India and Regional Centre for Biotechnology (RCB), Faridabad and issued by NTA. The BET 2021 Score Card does not require any signature.
2. The marks obtained by candidates will be considered further for preparation of merit list of candidates qualifying BET 2021.
3. The candidate's particulars including Category and Person with Disability (PwD) have been indicated as mentioned by the candidate in the online application form.
4. The eligibility documents of the qualifying candidates shall be verified as per specified norms at subsequent stages of issuance of fellowship award letter under DBT-JRF Programme. Instances of incorrect information provided by the candidates, if detected at any stage shall make the candidates liable for disqualification.
5. Candidate, if found, submitting wrong information or tampering with this Score Card at any stage, shall be considered as using Unfair Practices and his/her candidature will be cancelled and further legal action will be taken as may be deemed fit.
6. The National Testing Agency has taken due care while uploading the Score Card. However, in case of any inadvertent error, the NTA reserves the right to rectify the same at a later stage.
7. No separate Intimation about Score Card shall be issued.

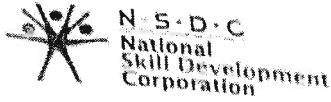


REGIONAL CENTRE FOR BIOTECHNOLOGY  
DEPARTMENT OF BIOTECHNOLOGY  
MINISTRY OF SCIENCE & TECHNOLOGY, GOVERNMENT OF INDIA

**GRADUATE APTITUDE TEST - BIOTECHNOLOGY (GAT-B) - 2021**

Application Number	212904118139	Roll Number	KK0463030010
Candidate's Name	JAYASHREE B		
<b>Graduate Aptitude Test - Biotechnology (GAT-B) - 2021</b>			
Subject	Maximum Marks	Marks obtained	
Section A:	60	14.5	
Section B:	180	119	
Total Score	240	133.5	





To  
The HOD,  
Sathyamaan College of Engineering, (Bio Tech)

Dear Sir,

This is to inform that the photocopy of payment receipts is been attested with original seal and signature as the original receipts has unfortunately misplaced. Kindly consider the inconvenience and if tablets are issued, find the username and passwords of the students of medical coding for the use of lab mentioned below.

Thanks for the timely support and co-operation and looking forward the same in future.

Please find students login credentials,

S.No.	Student Name	Course	Center	Username	Password
1	Meenu Chacko	Medical Coding	Bangalore	ccm15b123	medskills
2	Belgin Joseph	Medical Coding	Bangalore	ccm15b124	medskills
3	Vijaya lakshmi Srinivasan	Medical Coding	Bangalore	ccm15b125	medskills
4	Atul raj P	Medical Coding	Bangalore	ccm15b126	medskills
5	Hinduja k	Medical Coding	Bangalore	ccm15b127	medskills
6	Siva Arungam C	Medical Coding	Bangalore	ccm15b128	medskills
7	kannan V	Medical Coding	Bangalore	ccm15b129	medskills

Best Regards

Prashant N  
Contact @ +91 9739739991 || 9342888477  
Sales Manager & Senior Knowledge consultant,  
Apollo Medskills, Bangalore CoE,  
Bannerghatta Road, Bangalore-75-560083



Apollo MedSkills @ Bangalore #174/1, MEU Square, Bannerghatta Road, JP Nagar 3rd Phase, Bangalore - 560 076.

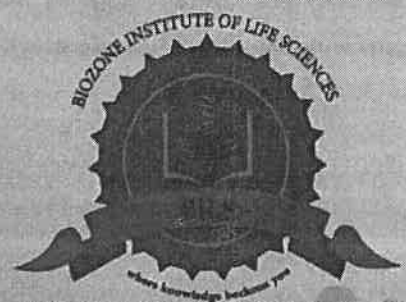
9342888477 1800 3010 9595 Toll free

www.apollomedskills.com

## **f) Hands on Training**

Biotechnology is a sunrise sector in life sciences both in academia and industry. It is a frontier of science offering enormous possibilities of its use as a premium precision tool for the welfare of society and creation of wealth for sustainable commercial and socio-economical development. Developments of in-hand biological science process skills enable students to better understand science and perform better during interviews. As practical skilled knowledge is the most important aspect of technology driven science like Biotechnology or Bioinformatics. Above all we emphasis maximum on building the science fundamentals during our training program which add values to your knowledge and enable you to perform better in future. Student gains most while working as an intern, they acquire ample amount of new skills.

Parkavi.N  
AC1908T028



A Unit of Biozone Research Technologies Pvt. Ltd.

# CERTIFICATE

This is to certify that Mr./Ms./Dr. PARKAVI. N

has successfully completed 3 days training/course / workshop in

Hands on training in Real-time PCR

from 03/08/2022 to 05/08/2022 at our institute.

Me  
Piyas  
FACULTY



Heena Tella  
MANAGING DIRECTOR

Scanned with CamScanner





**TAMIL NADU AGRICULTURAL UNIVERSITY**  
**CENTRE FOR PLANT MOLECULAR BIOLOGY AND BIOTECHNOLOGY**  
**DEPARTMENT OF PLANT MOLECULAR BIOLOGY AND BIOINFORMATICS**



*Certificate of Participation*

*This is to certify that*




**M.PRABA**

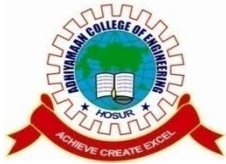
*has successfully completed Two days*

*Hands on Training in "Sequence and Structure Analysis :  
Molecular Modeling, Docking and Simulation"*

*on 22<sup>nd</sup> and 23<sup>rd</sup> July, 2022*

  
Professor and Head  
DPMB&B

  
Director  
CPMB&B



### **3. Problem solving methods:**

Strong problem solving skills is the key to apply technical knowledge. The department encourages students to develop and acquire problem-solving skills by providing assignments and tutorial hours for core chemical engineering subjects. Students are also motivated to involve in process, product design and development.

#### **PROBLEM SOLVING METHODS**

##### **3.1 Tutorials**

##### **3.2 Case studies**

##### **3.3 Process equipment design**

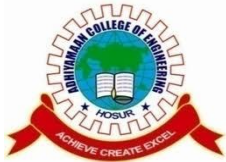
##### **3.4 Troubleshooting in process Industries**

### **3.1 Tutorials:**

Students are given assignments and tutorials on core subjects to improve the problem solving ability of the students. This would further enable them to link situations in a chemical process industry and provide solutions.



**Students actively involved at solving problem in Tutorial hours**

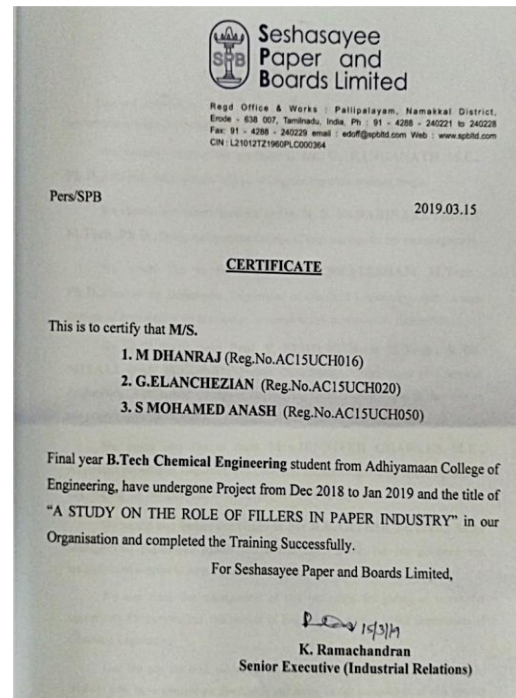
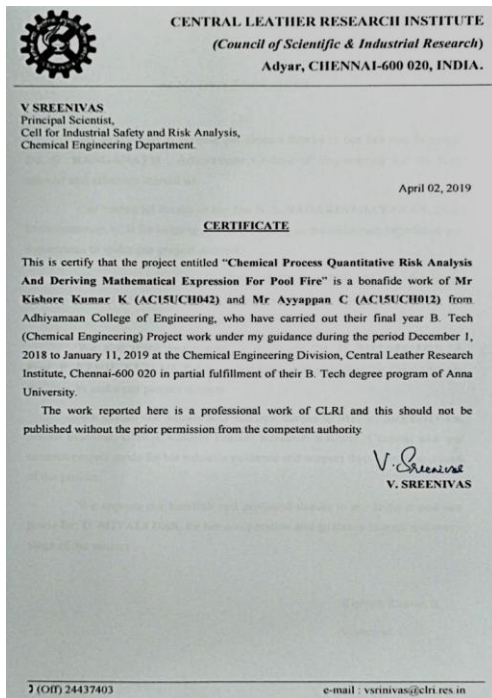


**ADHIYAMAAN COLLEGE OF ENGINEERING**  
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**DEPARTMENT OF CHEMICAL ENGINEERING**



### **3.2 Case studies:**

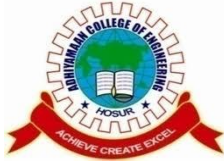
Students take up case studies of various unit operations and process plant safety. It makes students to build up logical reasoning, thinking and problem solving ability. Case studies enable students to identify possible causes and suggest suitable solutions.



### **Case study carried out by our students at various organizations.**

### **3.3 Process equipment design:**

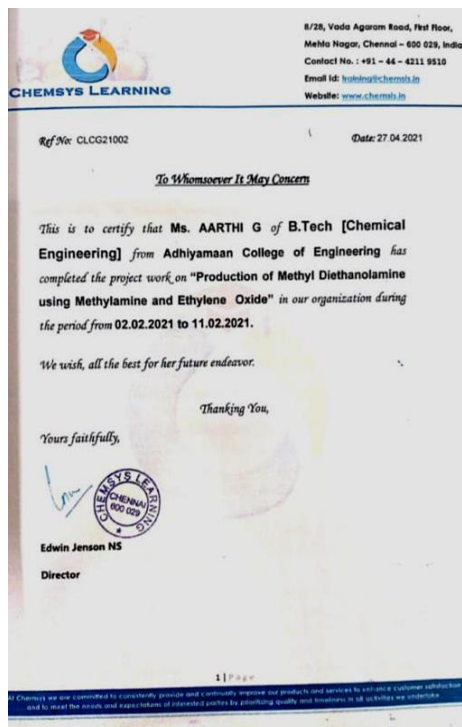
Students use their critical thinking skills to identify the possible problems in design of equipment, processes, plants that involve various inter-related process variables. Students are encouraged to take up projects in this area and enhance their design skills to achieve desired workflow.



**ADHIYAMAAN COLLEGE OF ENGINEERING**  
(An Autonomous Institution, Affiliated to Anna University, Chennai)  
**DEPARTMENT OF CHEMICAL ENGINEERING**



**Projects carried out by our students on Design of Chemical Process Equipments**



**An innovative project work done by our students on Design and Simulation of a chemical process**



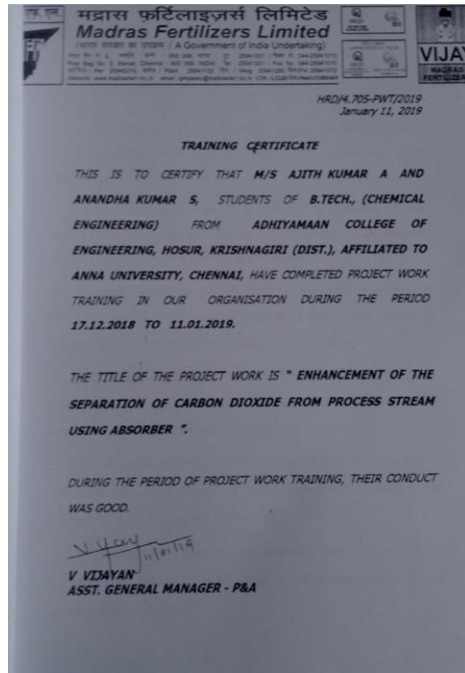


**ADHIYAMAAN COLLEGE OF ENGINEERING**  
(An Autonomous Institution, Affiliated to Anna University, Chennai)  
**DEPARTMENT OF CHEMICAL ENGINEERING**



### 3.4 Troubleshooting in process Industries:

Students take up industrial projects every year to troubleshoot the problems by paying attention to details and identifying the root cause. It helps students to develop their technical, interpersonal, listening, decision making and analytical skills which are crucial for chemical engineers in a process industry.



### Troubleshooting Projects carried out by our students in various Chemical Process Industries.



**ADHIYAMAAN COLLEGE OF  
ENGINEERING**  
**(AUTONOMOUS), HOSUR-635130**



**DEPARTMENT OF CIVIL ENGINEERING**

**NAAC**  
**CRITERIA – 2.3.1**  
**PROBLEM SOLVING METHODOLOGIES**



### 2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

### 3. Problem solving methodologies

- The college adopts student centric learning method. Along with the classroom teaching and laboratory experiment based learning, students are also involved in minor and major projects. The projects help towards enhancing the real life problem solving abilities of the students.
- The college further follows problem solving methodologies by the students with assignments and tutorials as regular basis to check their level of understanding on the subject

### 3.1 PROJECT WORK

Our final year students have done inhouse project in various fields of Civil Engineering.

The details are as follows:

**ADHIYAMAAN COLLEGE OF ENGINEERING, HOSUR  
DEPARTMENT OF CIVIL ENGINEERING  
FINAL YEAR PROJECT DETAILS FOR 2021 – 2022**

BATCH NO.	STUDENTS NAME	REG. NO	PROJECT TITLE
1.	ANANTHA KRISHNAN RISHIKESH DATCHINAM GOPINATH	AC18UCE002 AC18UCE033 AC18UCE045 AC18UCE046	EXPERIMENTAL AND INVESTIGATION OF A CONCRETE BEAM USING BUBBLE DECK TECH.
2.	VINITH MOHAN C NIRANJAN RAGAV SAI KRISHNA	AC18UCE041 AC18UCE021 AC18UCE024 AC18UCE029	EXPERIMENTAL STUDY OF JACK ARCH ROOF
3.	SWETHA THANUJA RAM KUMAR PARVEEN	AC18UCE036 AC18UCE037 AC18UCE032 AC18UCE026	AN EXPERIMENTAL INVESTIGATION OF GLASS FIBER REINFORCEMENT BEAMS
4.	DEEPESH GUHAN HARSHITHA NIKHIL	AC18UCE010 AC18UCE013 AC18UCE014 AC18UCE023	EXPERIMENTAL INVESTIGATION OF PERVIOUS CONCRETE WITH STEEL SLAG

	BARATH	AC18UCE044	
5.	AYANA BABU DILIP KEERTHAN VETRIVEL	AC18UCE006 AC18UCE011 AC18UCE016 AC18UCE039	BEHAVIOUR OF FOOTING UNDER DYNAMIC CONDITION
6.	ASHWANI YADHAV PRIYA DHARSHINI RAKSHAN THUYAVAN SUDHARSHAN	AC18UCE005 AC18UCE028 AC18UCE031 AC18UCE038 AC18UCE053	DESIGN OF SMART CITY INFLUENCE BY AI
7.	MANI MATHI PALLAVA PASUPATHI SUBASH	AC18UCE019 AC18UCE020 AC18UCE025 AC18UCE027 AC18UCE052	EXPERIMENTAL ANALYTICAL INVESTIGATION OF GROUND VIBRATION CONTROL IN INDUSTRIAL AREA USING SERVO CONTROLLER HYDRAULIC CALCULATOR
8.	ABINESHWARAN LOKESH MADESH SATHYAN MOHAN PRABHU	AC18UCE001 AC18UCE017 AC18UCE018 AC18UCE034 AC18UCE048	COMPRATIVE STUDY OF PAPERCRETE BRICKS
9.	ASHOK ARAVINDH MINNAL RAJA PAVAN SANJAY	AC18UCE004 AC18UCE043 AC18UCE047 AC18UCE049 AC18UCE051	REMOVAL OF TOTAL DISSOLVED SOLIDS FROM GROUNDWATER USING HERBS
10.	ARUN KUMAR DINAKARAN MONITH VIKRAM	AC18UCE003 AC18UCE012 AC18UCE022 AC18UCE040	STEEL CONCRETE COMPOSITE COLUMN
11.	BALA MURUGAN CHANDRU JAMBU UPENDRA	AC18UCE007 AC18UCE009 AC18UCE015 AC18UCE054	EXPERIMENTAL STUDY ON COAGULATION OF GREY WATER USING NATURAL COAGULANT



Students doing project in Soil Structure Interaction Lab



Testing of specimen done in compression testing machine

## BONAFIDE CERTIFICATE

Certified that this project report "COMPARATIVE STUDY OF PAPERCRETE BRICKS" is the bonafide work of "ABINESHWARAN.V, LOKESH.M, MADESHWARAN.K, SATHYAN. V, MOHANPRABHU.S" who carried out the project work under my supervision.



SIGNATURE OF GUIDE

Mrs. K. J. JEGIDHA  
Assistant Professor  
Department of Civil  
Engineering, Adhiyamaan  
College of Engineering,  
Hosur - 635109



SIGNATURE OF H.O.D

Dr. S. SURESH BABU Ph.D.,  
Head of Department  
Department of Civil  
Engineering, Adhiyamaan  
College of Engineering,  
Hosur - 635109



PRINCIPAL

Submitted for the project report viva-voice examination held on 30/05/2022  
at Adhiyamaan College of Engineering (Autonomous), Hosur -635109.



Internal Examiner




External Examiner

### **3.2 TUTORIAL HOURS:**

Tutorials are designed to give space to engage more actively with the course content. It offers a unique and individualized learning experience.. It encourages the students to higher level of thinking.

# TUTORIAL - STRENGTH OF MATERIALS

kathirvelnaren@gmail.com Switch accounts 


The name and photo associated with your Google Account will be recorded when you upload files and submit this form. Your email address is not part of your response.

\*Required

## QUESTIONS

1. A simply supported beam of span 6m is subjected to a concentrated load of 45 kN at 2m from the left support. Calculate the deflection under the point load. Take  $E = 200 \times 10^6 \text{ KN/m}^2$  and  $I = 14 \times 10^6 \text{ m}^4$ .
2. A fixed beam AB of length 6m carries point load of 160kN and 120kN at a distance of 2m and 4m from the left end A. Find the fixed end moments and the reactions at the supports. Draw BMD and SFD.
3. A cantilever beam AB of span 6m is fixed at the end A and propped at the end B. It carries a point load of 50kN at midspan. Determine the reaction at the prop. Draw SFD and BMD.
4. A continuous beam, 12m long supported over spans  $AB = BC = CD = 4\text{m}$  carries a UDL of 3 kN/m run over span AB, a concentrated load of 4kN at a distance of 1m from point B on support BC and a load of 3kN at the centre of the span CD. Analyse the beam using Clapeyron's equation. Find support moments and draw BMD

Write your answers in A4 sheet, take photo, convert to single pdf and upload it. \*

 Add File

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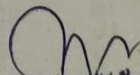
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Google Forms

  
Professor & Head  
Department of Civil Engg  
K. J. Somaiya Institute of Engineering & Technology  
Dr. M. S. R. Nagar  
HOSUR - 635 109 Tamil Nadu





## TUTORIAL - STRUCTURAL ANALYSIS-II

kathirvelnaren@gmail.com [Switch accounts](#)



The name and photo associated with your Google Account will be recorded when you upload files and submit this form. Your email address is not part of your response.

\*Required

### QUESTIONS

11. A continuous beam ABC has span AB = 6m and BC = 4m. Support A and B are roller supports and support C is fixed. Span AB carries a UDL of 2 KN/m. Span BC carries a centre point load of 10 KN. Analyse the beam by matrix flexibility method and sketch the BMD.
12. A portal frame ABCD with supports A and D are fixed at same level carries a UDL of 8 KN/m on the span BC. Span AB = BC = CD = 9m. EI is constant throughout. Analyse the frame by stiffness matrix method.
13. Determine the shape factor for a rectangular section of breadth 'b' and depth 'd'.
14. A two span continuous beam has span AB = 10m span BC = 12m. Support A is fixed. Support B and C are roller supports. Span AB carries a UDL of 8 KN/m and span BC carries an eccentric point load of 60 KN at 4m from support B. Determine the required plastic moment.

Answers should be written in A4 sheet. Take photo, convert to single pdf and upload your answers. \*

Add File

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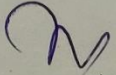
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Professor & Head  
Department of Civil Engineering  
K. J. Somaiya Institute of Engineering & Information Technology  
D. T. Nagar, Vashi  
Mumbai - 400 705



# MECHANICS OF SOLIDS

kathirvelnaren@gmail.com Switch accounts 

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\*Required

## QUESTIONS

1. A simply supported beam of span 10m carries a concentrated load of 10KN at 2m from the left support and a UDL of 4KN/m over the entire span. Draw the shear force and bending moment diagrams for the beam.

2. A cantilever beam of 2 m long carries a uniformly distributed load of 1.5 kN/m over a length of 1.6 m from the free end. Draw shear force and bending moment diagrams for the beam.

Answer both the questions. Answers should be written in a4 sheet. Take 20 points  
photo ,convert to pdf and attach it \*

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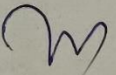
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Google Forms

  
Professor & Head  
Department of Civil Engg  
Adityanagar College of Engineering  
Dr M.O.R. Nagar  
HOSUR - 635 109 Tamilnadu



### **3.4 HACKATHON**

Hackathons provide an opportunity for individual contributors to strengthen their skills. It is an opportunity for multidisciplinary groups to show their skills and develop new projects in a record time

The students from various departments have applied for MSME student hackathon programme. The following students have been selected with grants as follows :

10/19/22, 2:18 PM

Fwd: Approval of ideas/ proposals submitted by your Institute under the Incubation Component of MSME Innovative Schem...

**From:** acedeanresearch@gmail.com,

**To:** vadhiraan.pa@aol.com,

**Subject:** Fwd: Approval of ideas/ proposals submitted by your Institute under the Incubation Component of MSME Innovative Scheme( Incubation, Design & IPR) of MSME Champion Scheme for GoI assistance-reg.

**Date:** Mon, Jul 25, 2022 9:08 am

----- Forwarded message -----

From: **MSME Innovative Scheme** <[helpline-msme@gov.in](mailto:helpline-msme@gov.in)>

Date: Sat, 23 Jul 2022 at 9:57 PM

Subject: Approval of ideas/ proposals submitted by your Institute under the Incubation Component of MSME Innovative Scheme( Incubation, Design & IPR) of MSME Champion Scheme for GoI assistance-reg.

To: <[acedeanresearch@gmail.com](mailto:acedeanresearch@gmail.com)>



**File No. : 17(2)/ MSME Innovative/PMAC/2021-22**

**Date : 23-07-2022**

To,

Adhiyamaan College of Engineering

**Subject: Approval of ideas/ proposals submitted by your Institute under the Incubation Component of MSME Innovative Scheme( Incubation, Design & IPR) of MSME Champion Scheme for GoI assistance-reg..**

Sir,

I am directed to inform you that the idea(s) / proposals received from your Institute under the above scheme were considered by the PMAC meeting held on 22/06/2022. The committee has approved this idea(s). The details of approved idea / proposal are as under.

Sl. No.	Name of Incubatee and proposed idea of innovation	Project cost	Amount Sanctioned as GOI Share (Rs. In lakhs)	Incubatee Share (Rs. In lakhs)
1	BAALADHINESH A , &nbsp;SOLAR MEMBRANE DISTILLATION	12.000	10.200	1.800

Further, in order to release GoI grant, it is requested to go through instructions/ guidelines on Revised procedure for flow of funds under Central Sector Schemes O.M from M/o Finance, D/o Exp. vide no. 1(18)/PFMS/FCD/202dated 9.03.2022 carefully and nomination of CTTC Bhubaneswar as CNA vide letter dated No, 41(1)/Budget/MSME Champions/2021 dated 27.06.2022 for Model -2 for release of funds to HIs (For details [Click here](#).)



10/19/22, 2:18 PM

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Date: Sat, 23 Jul 2022 at 8:50 PM

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1	VADHIRAJAN ACHUTHAN , &nbsp; Cloud Based distance Relay with Fault location Mapping on Google Map	14.000	11.900		2.100

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**Date:** Mon, Jul 25, 2022 9:06 am

----- Forwarded message -----

From: **MSME Innovative Scheme** <[helpline-msme@gov.in](mailto:helpline-msme@gov.in)>

Date: Sat, 23 Jul 2022 at 7:19 PM

Subject: Approval of ideas/ proposals submitted by your Institute under the Incubation Component of MSME Innovative Scheme( Incubation, Design & IPR) of MSME Champion Scheme for GoI assistance-reg.

To: <[acedeanresearch@gmail.com](mailto:acedeanresearch@gmail.com)>



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1	M SONALI , &nbsp;AUTO IRRIGATION, SOIL MONITORING AND CONTROL FOR BETTER CROP YIELD AND SOIL QUALITY	15.000	12.750	2.250

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