

BEARYS INSTITUTE OF TECHNOLOGY

Approved by AICTE New Delhi, Recognized by Govt. of Karnataka.
Affiliated to Visveswaraya Technological University Belagavi, Karnataka.
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Bearys
Institute
of Technology 
MANGALORE

Ref. BIT/Admn/NAAC/132/2022-23

Date 27/01/2023

Endorsement

This is to certify that details on ecosystem for innovations and initiatives for the creation and transfer of knowledge are attached.


27/1/23

PRINCIPAL
Bearys Institute of Technology
BEARYS KNOWLEDGE CAMPUS
Lands End, Boliyar Village
Near Mangalore University, Innoli,
MANGALORE - 574 199



Report on:

“ ANVESHANA SCIENCE & ENGINEERING FAIR ”

Project Title:

“ SMART RAINWATER HARVESTING SYSTEM ”

Team Details:

COLLEGE STUDENTS:

1. Mr. Swasthik
2. Mr. Akram Mohammed Hussain

[Bearys Institute of Technology, Mangalore]

SCHOOL STUDENTS:

1. Mohammed Hafil
2. Shahan Mohammed Ibrahim

[Bearys Public School, Hathill Mangalore]

UNDER THE GUIDANCE OF:

Prof. Vinod Kumar N.
Assistant Professor,
Department of Mechanical Engineering
[Bearys Institute of Technology, Mangalore]

I. Introduction

A. Anveshana:

Anveshana is a Science & Engineering competition that will culminate in a Fair where the students will exhibit their projects/models. This Competition will primarily involve undergraduate Engineering students and underprivileged school-going students where the students together will follow philosophies and practices of hands-on learning, and research orientation, to make models based on Engineering-Science concepts. The Engineering Students will mentor school students in the creation of models while inducing knowledge and confidence in them.

Engineering colleges will participate as teams with 2 members. The teams will select 2 students from nearby schools to mentor them to design and build models or projects around an identified social problem. The school students thus will be exposed to the entire planning, designing, and building process of the models and in turn will get educated in the scientific and engineering concepts behind the models in Anveshana.

Agastya International Foundation has been conducting it successfully every year in association with Synopsys India ltd., from 2011-12 in Bangalore and 2013-14 in Hyderabad, 2015-16 in NCR Delhi and 2018-19 in Mumbai.

Anveshana is well received by engineering colleges in Karnataka, Telangana (Hyderabad), Andhra Pradesh, Tamilnadu, Kerala, Delhi, Haryana, U.P, Madhya Pradesh and Rajasthan.

B. Objective of Anveshana:

1. To develop innovation and creativity among students from engineering colleges and nearby disadvantaged schools in Hyderabad and Karnataka
2. To facilitate the process of mentoring between engineering students and school students while they plan, design and make the models together
3. To Bridge the knowledge gap between school and higher education through the integration of ideas and learned concepts
4. To develop new models and TLMs using Engineering skills, which can be used in the future by the Agastya Team while they teach children and teachers among the disadvantaged sections of the society

C. Theme for Anveshana 2023:

Novel strategies and innovative technologies in waste management for a sustainable development

D. Process of Anveshana (Engineering Fair & Competition):

- Initial Screening of Engineering College Teams: Concept synopses based on social problems and related Engineering solutions are invited from engineering college teams for pre-screening by the jury
- First-round jury process: An online event will get organised in which students have to present their ideas to a jury panel. Jury will evaluate these projects and approach taken by students and select top 40 (Mumbai and Delhi) / top 30 (Bangalore and Hyderabad). These projects will go on to implement their ideas and demonstrate. This process is applicable as a precursor to state level events. No such pre-event is organised for Chittoor and North Karnataka zonal events.

- Screening, selection of Synopsis and identifying mentees: Once selected the teams were asked to contact local schools with underprivileged status and to form school student teams to plan, design and make the models, while collaborating and mentoring the high school students
- Model Creation and Quality Check by Agastya team: Students will create knowledge networks between them, their peers and with external resource persons to create conceptual and methodological framework to create the models. Here, Agastya teams along with assigned senior resource persons (senior educators, engineers etc.) will visit the colleges to assist the teams conceptually and in the making of the models while providing inputs including scientific and technological inputs. One of the main reasons for these visits is to assure the quality of the collaboration and teaching-mentoring-learning outcomes
- Conceptual - Technological advice from Agastya: Agastya will also help the teams to establish links between prominent institutions like Indian Institute of Science, Institution of Engineers, Indian Institute Technology etc. – in case they need any technological or conceptual inputs
- Anveshana Fair begins: The models thus made will be exhibited in Anveshana Engineering fair where the teams would be presenting the same in front of an expert Jury for Judgement. During the fair, students display their research projects, working models and present their findings orally and through written journals to the Jury (mostly a team of scientists and educators). The judging process involves series of interactions on the concepts, methodology and objectives of the projects done by the students
- Delegates attending the fair: After the judging process students from various schools and delegates representing various institutions are also expected to attend the fair. Delegates attending the event will include scientists and educators from large number of institutions across the state
- Prizes will be awarded at a valedictory function – towards the end of the fair.

E. Expected Outcomes of Anveshana 2023:

- 100 ideas – generated
- Expected to create ideas for over 100 models of which about 40 would be short listed for final prototyping and evaluation
- 200 School Students will undergo direct training in model making thus improving their design, conceptualizing and leadership skills. In addition will receive training in soft skills viz. Team Work, Communication, thus improving their confidence levels
- 200 Engineering Students from among 100 Engineering Colleges will undergo direct training in model making thus improving their design, conceptualizing, mentoring and leadership skills
- 1000 School Students will get exposure to model making concepts thus while understanding the linkages between concepts learned in the classroom , associated learning methodologies and aspects of model making
- 200 Engineering Students from different colleges will get exposure to the models and will participate in discussions
- Participating students will imbibe questioning spirit and receive research orientation
- Increased social awareness among engineering students as they are gearing up towards professional life
- Cross pollination of information, knowledge and experience between school education and collegiate education

II. Event Overview

A. Date and location of the event:

The ANVESHANA SCIENCE & ENGINEERING FAIR was held from **2nd March 2023 to 04th March 2023** at **Shikshaka Sadana, Bangalore**, organized by Agastya International Foundation in association with Synopsys.

B. Attendees:

The event was attended by young people from various districts of Karnataka, as well as professionals from fields such as the IAS, DRDO and ISRO. The event also featured keynote speeches and presentations by industry experts.

III. Participation and Outcomes

A. Project abstract:

In this project, we are developing a “**SMART RAINWATER HARVESTING SYSTEM**” using Arduino and servo motors with coding. This system is able to keep the rain gutters clean throughout the season.

Rain gutters tend to collect many types of debris throughout the season. This debris can cause serious problems if the gutters are not properly cleaned. The objective of this design is to provide the average homeowner with a device that effectively cleans rain gutters thus avoiding resulting problems. The device must clean gutters without the use of a ladder or platform. It must reduce human effort, be light in weight, as well as be low in cost. This report presents our final design proposal that will successfully complete the task at hand while being safe and efficient for any homeowner.

B. Description of team's participation in the event:

Under the guidance of Prof. Vinod Kumar N., two final-year mechanical engineering students, Swasthik and Akram, participated in ANVESHANA Science and Engineering Fair 2023 and trained two school students Mohammed Hafil Shahan Mohammed Ibrahim from Bearys Public School, Mangalore. We presented our project, a "**Smart Rainwater Harvesting System**", which aimed to address the issue of water scarcity in the region. The project demonstrated a novel approach to rainwater harvesting using smart sensors and automation technology and received appreciation from the judges and participants.

C. Feedback and reaction from attendees:

Attendees were impressed by the concept of the project and were curious to know more about how it works. They also praised the design and the technical aspect of the project. We received positive feedback from attendees who were interested in the environmental benefits of the project and from professionals from the field of engineering and robotics.

C. Knowledge and skills gained through the event:

Through this event, we gained knowledge about the latest technologies in the field of environmental conservation and had the opportunity to interact with professionals from various fields. We also learned about the different perspectives of other participants and gained valuable teamwork and leadership skills.

D. Any notable successes or challenges encountered:

We did not encounter any significant challenges during the event. However, we were limited by the size of the model that we could bring to the exhibition and that may have limited the level of detail that we could provide about the project.

IV. Conclusion

A. Summary of key points:

ANVESHANA Science and Engineering Fair 2023 was a highly successful event that showcased the innovative ideas and projects of young students from across India. The fair provided a platform for young students to showcase their creativity and talent in science and engineering and inspire them to pursue careers in STEM. We hope that such events will continue to encourage and promote STEM education and inspire more young people to become innovators and problem-solvers in the future.

B. Evaluation of the event:

The ANVESHANA Science and Engineering Fair 2023 was well-organized by **Agastya International Foundation** in association with **Synopsis**, and we had a great experience interacting with other participants.

V. Team Photographs with the attendees





Skill development Programme Conducted

A two-day Skill Development Program was conducted by Comedkares on 21st and 22nd December 2022. Comedkares is an Innovation Hub sponsored by GoK. These hubs are a single platform for students to get access to tools, and mentoring from industry mentors & local innovators to get started with building products & innovations.

The ComedKares Centers aims to support all colleges in the region to get access to state-of-art infrastructure to help their students be competent and compassionate technocrats to be better employers of the future.

The 2 Day skill development program for the 1st year students of the Batch 2022-23 was conducted with the aim of bringing an awareness to students to adopt different skills to make them employable and adptable to the changing demands of the Industry. Dr. SI Manjur Basha presided over the program and Dr. Nalini Rebello addressed the session in the afternoon.

The facilitators spoke about the opportunities available, and the need for integrated interdisciplinary aspects in engineering and also gave tasks to students.



Fig. 1 Principal addresses the gathering



Fig. 2 Ms. Roopalaxmi from Comedkares addresses the gathering



Fig. 3 Students display team work through task given



Fig. 4 Students interact and get directions from Ms. Roopalaxmi



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MANGALORE



BEARYS INSTITUTE OF TECHNOLOGY
INITIATIVES FOR INSTITUTIONAL INNOVATION
DEPT OF BASIC SCIENCES

Title of the Seminar: Entrepreneurship as a State of Mind: Chase your dreams

Resource Person: Mr Shameez, Co- founder, Oh Soul and Oh Harvest Company, Mangalore

Date: 16/11/2022

Venue: International Seminar Hall

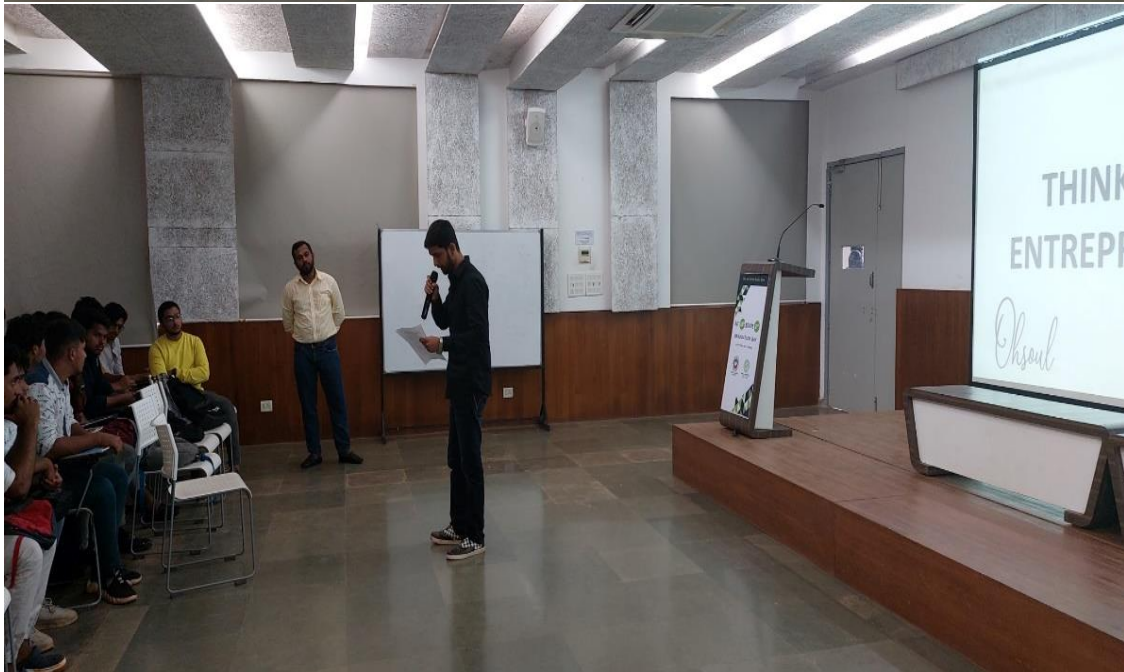
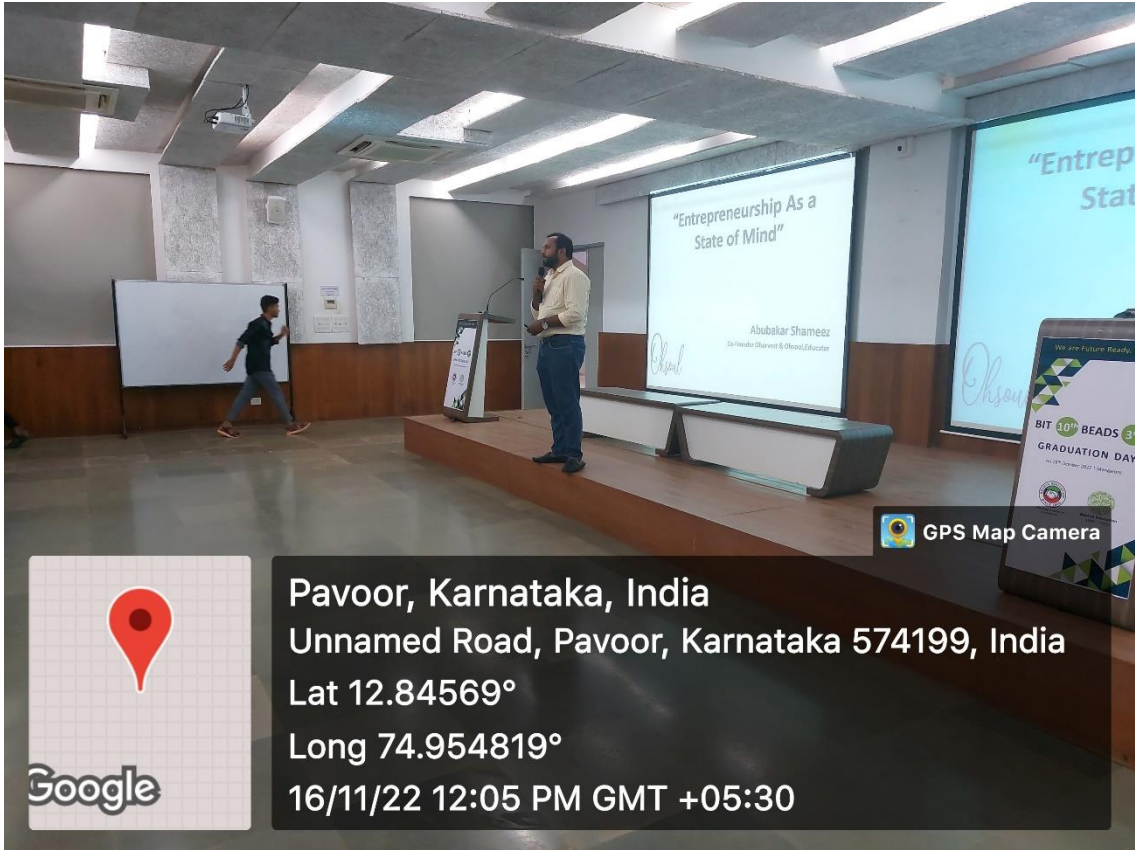
Mr. Shameez, a renowned entrepreneur from Oh Soul and Oh Harvest Company, gave a talk on entrepreneurship to the first year engineering students. The talk aimed to inspire and educate the students about the potential of entrepreneurship and how they could apply their engineering skills to start and run their own businesses.

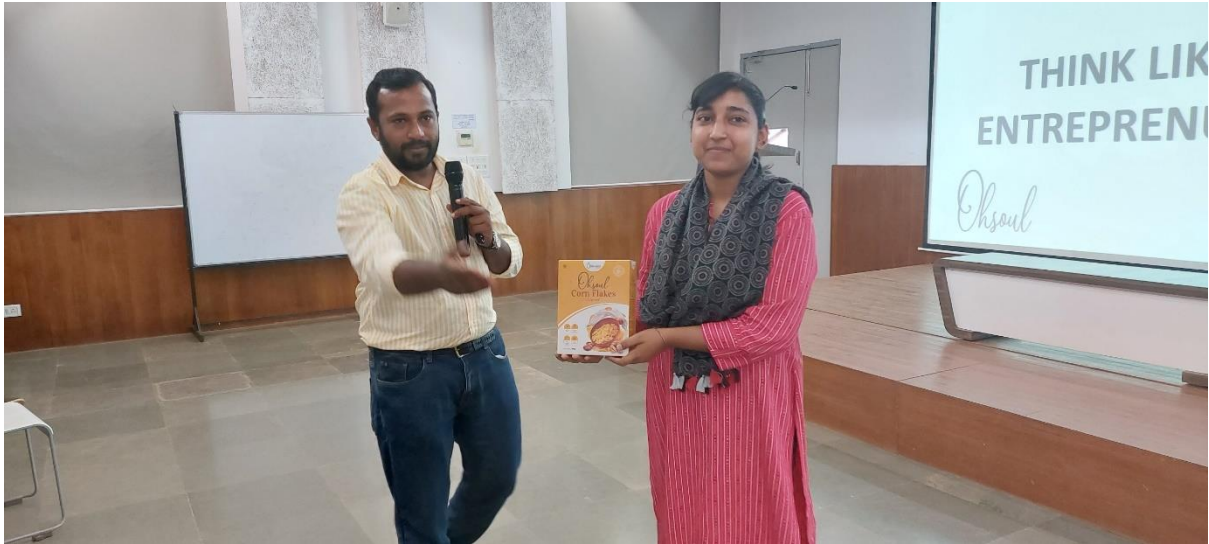
During the talk, Mr. Shameez emphasized the importance of identifying a problem or need in the market and developing a unique solution to meet that need. He encouraged the students to think creatively and innovatively, and to always be on the lookout for new opportunities.

Mr. Shameez also discussed the importance of passion and perseverance in entrepreneurship. He emphasized that starting a business requires hard work, dedication, and a willingness to take risks. He encouraged the students to believe in themselves and their ideas, and to never give up on their dreams. He also shared some key principles of entrepreneurship, such as building a strong team, networking, and seeking out mentors and advisors. He also discussed the importance of financial planning and management, as well as the need to continually adapt and evolve in response to changing market conditions.

He also engaged the students with variety of games and activities and even awarded the winners with prizes. The students participated well in all the tasks he gave them.

Overall, the talk was well received by the students, who found Mr. Shameez's insights and advice to be both practical and inspiring. Many of the students left the talk feeling more confident and motivated to pursue their entrepreneurial dreams. The talk ended with a Q&A session to clear doubts and queries among the students.







SYNOPSIS[®]



ANVESHANA 2022-23 FINALSITS KARNATAKA & TAMILNADU

Dear Students,

At the outset, we would like to thank all the participants for their enthusiastic response, for the time and effort given to the 11th edition of Anveshana. The journey from initial application and then scrutiny to this stage has been an exciting one for all of us. As you must now be aware, The overall objective of Anveshana is about mentoring young and vulnerable learners through innovative models of engineering, and broadening The horizons of the children. While selecting the projects the Screening Committee went through the project synopsis sent by various group On the relevance of theme, how clearly the project is broadening the knowledge of the young learners through the working models and the Innovation component. The projects have gone through different levels of screening, involving eliminations based on the synopsis sent, execution and learnings. 45 projects have been selected as Finalist out of 405 projects registered in Level-1 & 2 Screening process. It was a tough job for the Jury to select the 45 Projects.

More information

Mr. Bhaskar S.V 8792479019, 9986627027

Mr.Dilip kumar H K 9480887970 (Regional Manager)

bhaskarsvanveshana.agastya.or

Anveshana Karnataka & Tamilnadu Region 2022-23 selected projects list

SL NO	NAME OF THE ENGINEERING COLLEGE	PROJECT NAME	TEAM LEADER NAME	NAME OF THE PROJECT GUIDE
1	YENEPOYA INSTITUTE OF TECHNOLOGY	E-ASSISTANCE FOR PARALYSED	FATIMATUL MUHSINA	Dr. MANJULA V
2	YENEPOYA INSTITUTE OF TECHNOLOGY	SMART GLOVES FOR BLIND PEOPLE	GANGHAHARA NAYAK	Prof. ASHITHA SHETTY
3	YENEPOYA INSTITUTE OF TECHNOLOGY	SMART CHARGING BY INDUCTION	MOHAMMAD MUNAVVAR ABBAS	Prof.PRASANNA KUMAR
4	YENEPOYA INSTITUTE OF TECHNOLOGY	AUTOMATIC WASTE SEGREGATOR	STENY JOSEPH	Prof. VANI R
5	ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY	GREEN GROW THONICS	SUMANTH N	Dr. HARISH
6	RL JALAPPA INSTITUTE OF TECHNOLOGY	VERTICAL AXIS WIND TURBINE	YASHASWINI M R	Dr.HANUMANTHE GOWDA N H
7	AMRUTA INSTITUTE OF ENGINEERING AND MANAGEMENT SCIENCE	GRANITE POWDER POROUS CONCRETE	MOHAN KUMAR R K	Prof.DEEPIKA K P
8	AMRUTA INSTITUTE OF ENGINEERING AND MANAGEMENT SCIENCE	UTILISATION OF WASTE PLASTIC	PADMA R SANADI	Prof.VINUTHA S
9	St.JOSEPH ENGINEERING COLLEGE	AMIE	JENISHA MARIA D SOUZA	Prof.GLENSON TONEY
10	BEARYS INSTITUTE OF TECHNOLOGY	SMART RAIN WATER HARVETING	SWASTHIK	Prof.VINOD KUMAR N.
11	SDM INSTITUTE OF TECHNOLOGY,UJIRE	SMART INCINERTOR	ANOSH TITUS MADAVATH	Dr.PREM KUMAR
12	SRI KRISHNA INSTITUTE OF TECHNOLOGY	E –WASTE MANAGEMENT	TARUN, WAJAHAT	
13	SDM INSTITUTE OF TECHNOLOGY,UJIRE	BRICKS BY WASTE GLASS	HITHESH P SHETTY	Prof.SUBRAHMANYA R SHARMA
14	SDM INSTITUTE OF TECHNOLOGY,UJIRE	BRIKS BY CONSTRUCTION WASTE	NIVEDITA R PATIL	Dr. RAVEESH
15	SRI SAIRAM COLLEGE OF ENGINEERING SRI KRISHNA INSTITUTE OF TECHNOLOGY	LAKE CLEANING ROBOT	RANJITHA J	Prof.JENIFER A

16	VIDYA VIKAS INSTITUTE OF ENGINEERING AND TECHNOLOGY,MYSURU	FOOD GRAIN STORAGE MANAGEMNT	ANITHA K S	Prof. MANJUNATHA B
17	VIDYA VIKAS INSTITUTE OF ENGINEERING AND TECHNOLOGY,MYSURU	GENEARTE ELECTRICITY BY WASTE	CHANDAN N	Prof. MANJUNATHA B
18	PES COLLEGE OF ENGINEERING MANDYA	PORTABLE COFFEE HARVESTER	VIKAS C M	Prof.SIDDESH KUMAR N M
19	PES COLLEGE OF ENGINEERING MANDYA	CONVERSION OF WASTE PAPER INTO USEFUL RESOURCES	LAKSHMI	Prof.SAHANA RAJ
20	AJ INSTITUTE OF ENIGINEERING AND TECHNOLOGY	VERMI COMOSTING	SHREYAS KUMAR S V	Dr AMARNATH SHETTY
21	BABUJI ENGINEERING COLLEGE	SYNTHESIS OF LIQUID NANO FERTILISER SEWAGE WATER USING PLASMA TECHNOLOGY	NANDITHA SHREE	Dr.SHARAN AS Dr.G MANAVENDRA
22	SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT	POWER FROM MICROBES	NIDHI PRABHU K	Prof.NAGARAJA RAO
23	SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT	BLOOD BANK WEBSITE	PRAJWAL UPADHYA	Prof.ARUN UPADHYAYA
24	SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT	NOISE-->ELECTRICITY CONVERSION	SUMANTH MUTALIK	Prof.NAGARAJA RAO
25	CHANNABASAVESHWARA INSTITUTE OF TECHNOLOGY	LOW-COST PORTABLE CNC MACHINE	PRANEETH S D	Prof.NATESH CP
26	SRI VENKATESWARA COLLEGE ENGINEERING,CHENNAI	SMART WEARABLE KNEE COMFORTER AND WRIST ASSIST	PRASHANNA RANGAN R	Dr.S.RAMESH BABU
27	SIR M VISVESVARYA INSTITUTE OF TECHNOLOGY	DETECTION OF UREA IN MILK	ADITHYA SATHISH	Dr.C RAJENDRA SINGH
28	SIR M VISVESVARYA INSTITUTE OF TECHNOLOGY	POTENTIAL'S OF TURMERIC LEAF	CHATURHY AND TRISHA	Dr.HARIHARAN P Prof.PRIYANKA R
29	SIR M VISVESVARYA INSTITUTE OF TECHNOLOGY	UTILIZATION OF EGG SHELL WASTE	HITHA .M	Prof.PRIYANKA R
30	MANGALORE INSTITUTE OF TECHNOLOGY AND ENGINEERING	CHIKEN FEATHER ECO COMPOSITE	SUSHANTH	Dr. SHIVARAMU H T

31	MANGALORE INSTITUTE OF TECHNOLOGY AND ENGINEERING	E-WASTE RECYCLING USING	LIKHITH KUMAR R R	Dr VINAYAMBIKA S BHAT
32	MANGALORE INSTITUTE OF TECHNOLOGY AND ENGINEERING	AUTOMATIC WASTE SORTING MACHINE	ASHIK T NAIK	Prof.KIRAN KUMAR
33	MANGALORE INSTITUTE OF TECHNOLOGY AND ENGINEERING	UPCYCLING OF PLASTIC TO BRICKS	RAJPRASAD N ACHARYA	Prof.SRIDHAR D R
34	SAMBHRAM INSTITUTE OF TECHNOLOGY	SMART CINDEROOMBA	SUHAS V	Prof.MANJULA G HEGDE
35	SAMBHRAM INSTITUTE OF TECHNOLOGY	DRONE JATAYU	PRANAV RAO	Prof.ABHISHEK D G
36	PRESIDENCY UNIVERSITY,BENGALURU	EMUM ECONOMICAL MANAGEMENT AND USES OF WATER	SHIVAM	Dr.DIVYA RANI
37	PRESIDENCY UNIVERSITY,BENGALURU	INTELLIGENT DIGITAL EDUCATIONAL ASSIST FOR DIVYAGJAN	MANOJ C ACHARYA	Dr.DIVYA RANI
38	PRESIDENCY UNIVERSITY,BENGALURU	AUTOMATED HYDROPONICS SYSTEM	STHUTHI R MOHAN	Dr.DIVYA RANI
39	Dr. Dr.MAHALINGAM COLLEGE OF ENGINEERING,POLLACHI	NATURAL COMPOSITE	ANDREWSCHRISTOPHER	Dr GURUPRANE S V
40	Dr.MAHALINGAM COLLEGE OF ENGINEERING,POLLACHI	CARYOTA MITIS COMPOSITE	ARAVINDHKUMAR B	Dr GURUPRANE S V
41	B N M INSTITUTE OF TECHNOLOGY	JANPARVANI-SPEECH TO TEXT APP IN DIFFERENT LANGUAGES WITH INBUILT SOS AND OCR FEATURE	SIDDHANT PRIYADARSHI	Dr .SEJAL SANTHOSH NIMBHORKAR
42	B N M INSTITUTE OF TECHNOLOGY	DETECTING SKIN DISEASE IN COW	ANANYA JAYASIMHA	Prof.NIRUPAMA M PADMANABHA
43	B N M INSTITUTE OF TECHNOLOGY	TRAVELHOLIC –LIV	AISHWARYA N	Dr. S. SRIVIDHYA
44	JAIN UNIVERSITY,RAMANAGARA	CNN-BASED OBJECT RECOGNITION AND TRACKING SYSTEM TO ASSIST VISUALLY IMPAIRED PEOPLE	GOUTAM KUMAR	Dr.VINAY KUMAR S B
45	JAIN UNIVERSITY,RAMANAGARA	SMART HEALTH CARE AGE AI	AMRUTH R NAIK	Dr.VINAY KUMAR S B

Note:

- Review will start from **4th** week of **December 2022**.
- We expect school students to explain the basic science concepts involved in your project during these Review

(Feel free to call & clarify your doubts regarding mentoring process Bhaskar S.V 8792479019, 9986627027)

- We expect working model of your project during the review.
- Send the complete project report by **15th Jan. 2023**(word **file** - with *block diagrams, pictures of the Model, photo graph of your team with school students and guide*

Etc. **bhaskarsv.anveshana@agastya.org** for publishing in “**AnveshanaSouvenir**”)

Document minimum 100 questions asked by the school students during the mentoring process and send the same to **bhaskarsv.anveshana@agastya.org** for publishing in “**100 Times Curious**” book which will be unveiled during the event.

WISH YOU ALL THE BEST



INTERNATIONAL CULTURAL JAMBOREE SCIENCE EXHIBITION REPORT

- Event** : International Cultural Jamboree-Science Exhibition, ALVAS Moodbidri
- Date** : 21-26 December 2022 (06 Day)
- Theme** : Participation in Science Exhibition by Final Year Students of Mechanical Engineering and Electronics & Communications Engineering, BIT Mangalore
- Purpose of the event** : The Bharat Scouts and Guides International Cultural Jamboree, Science Mela was organized to showcase the talents and skills of young people. The event aimed to promote cultural exchange, teamwork, and leadership among participants. The event featured a variety of activities such as science mela, art and exhibitions.
- Attendees** : The event was attended by young people from various states, as well as professionals from fields such as the Navy and ISRO. The event also featured keynote speeches and presentations by industry experts.
- Summary** : The Departments of Mechanical Engineering and Electronics & Communications Engineering, BIT Mangalore participated in the event. The excerpts of which are as summarized below.
- Mechanical Engineering Department** : Swasthik, and Drithakumar, participated in the event and presented our project "Automatic lake cleaning boat" at the exhibition. They set up a display that included a model of the boat and a presentation that explained the concept, design, and technical aspects of the project. They demonstrated how the boat works using the model.

Objectives of the project:

The objective was to present the project "Automatic lake cleaning boat" at the exhibition, which aimed to provide a sustainable solution to the problem of lake pollution. The project aimed to demonstrate how advanced technology can be used to address environmental issues.

Description of the project:

The Automatic lake cleaning boat is a self-controlled boat that uses advanced technology to clean the lakes. The boat is equipped with sensors that detect the level of pollution in the water, and it automatically starts the cleaning process. The boat is equipped with a variety of cleaning tools such as filters, skimmers, and suction devices. The boat can also be remotely controlled to clean specific areas of the lake.

INTERNATIONAL CULTURAL JAMBOREE SCIENCE EXHIBITION REPORT

Feedback and reaction from attendees:

Attendees were impressed by the concept of the project and were curious to know more about how it works. They also praised the design and the technical aspect of the project. We received positive feedback from attendees who were interested in the environmental benefits of the project and from professionals from the field of naval engineering and robotics.

**Electronics-
Communica-
tions
Engineering
Department**

: The final-year students Mateen, Kaveri and Saleek presented the project by Title “Water quality monitoring and distribution system”. The project has gained much attention from the audience as the presence of certain contaminants in our water can lead to health issues, including gastrointestinal illness and neurological disorders. Infants, young children, the elderly, and people with weakened immune systems may be especially at risk for illness. Also, Students created awareness in the public about the importance of quality of water.

Knowledge and skills gained through the event:

Through this event, the students gained knowledge about the latest technologies in the field of environmental conservation and had the opportunity to interact with professionals from various fields. They also learned about the different cultural perspectives of other participants and gained valuable teamwork and leadership skills.

Photos



Students of Mechanical Engineering with Faculty of Marine Engineering College

INTERNATIONAL CULTURAL JAMBOREE SCIENCE EXHIBITION REPORT



Participants interaction



Polytechnic students and faculty interacting

INTERNATIONAL CULTURAL JAMBOREE SCIENCE EXHIBITION REPORT



Students interacting with E&C project team



E&C project team at Alva's Science Exhibition



THE BHARAT SCOUTS AND GUIDES

CERTIFICATE OF PARTICIPATION



SALEEK

of BIT, MANGALORE COLLEGE

has participated in the
Science Mela, International Cultural Jamboree - 2022
held at **Alva's Education Foundation (R.)**,
Moodubidire, Dakshina Kannada, Karnataka from
21st to 27th December 2022.

Dr Yuvaraj A R
Coordinator, Science Mela

Dr. M Mohan Alva
Jamboree Secretary General
District Chief Commissioner

P G R Sindhia
Secretary General, PIC BSG
State Chief Commissioner





THE BHARAT SCOUTS AND GUIDES



CERTIFICATE OF PARTICIPATION



KAVERI

of BIT, MANGALORE COLLEGE

has participated in the
Science Mela, International Cultural Jamboree - 2022
held at **Alva's Education Foundation (R.)**,
Moodubidire, Dakshina Kannada, Karnataka from
21st to 27th December 2022.

Dr Yuvaraj A R
Coordinator, Science Mela

Dr. M Mohan Alva
Jamboree Secretary General
District Chief Commissioner

P G R Sindhia
Secretary General, PIC BSG
State Chief Commissioner





THE BHARAT SCOUTS AND GUIDES



CERTIFICATE OF PARTICIPATION



MATEEN

of BIT, MANGALORE COLLEGE

has participated in the
Science Mela, International Cultural Jamboree - 2022
held at **Alva's Education Foundation (R.)**,
Moodubidire, Dakshina Kannada, Karnataka from
21st to 27th December 2022.

Dr Yuvaraj A R
Coordinator, Science Mela

Dr. M Mohan Alva
Jamboree Secretary General
District Chief Commissioner

P G R Sindhia
Secretary General, PIC BSG
State Chief Commissioner





Karnataka State Council for Science and Technology

(An autonomous organisation under the Dept. of Science & Technology, Govt. of Karnataka)

Indian Institute of Science Campus, Bengaluru – 560 012

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Mr. H. Hemanth Kumar

Executive Secretary

11th May, 2022

Ref: 7.1.01/SPP/91

The Principal,
Bearys Institute of Technology,
Bearys Knowledge Campus Lands-End,
Boliyar, Near Mangalore University,
Mangaluru - 574 153.

Dear Sir/Madam,

Sub : Sanction of Student Project - 45th Series: Year 2021-2022

Project Proposal Reference No. : 45S_BE_2639

Ref : Project Proposal entitled **SOLAR OPERATED UNMANNED LAKE CLEANING BOAT TO CLEAN DEVIKA NAGAR LAKE, ADYAR, MANGALORE**

We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 45th Series". The project details are as below:

Student(s)	Mr. D DRITHA KUMAR	Department	MECHANICAL ENGINEERING
	Mr. DINAKARA M S		
	Mr. PRASHANTH KUTINHA		
Guide(s)	Prof. ARVIND KUMAR	Sanctioned Amount (in Rs.)	12,000.00

Comments / Suggestions of the Experts

The idea of the project is good. The team should think about how the cleaner will be designed.

Instructions:

- The project should be performed based on the objectives of the proposal submitted.
- Any changes in the project title, objectives or students team is liable for rejection of the project and your institution shall return the sanctioned funds to KSCST.
- Please quote your project reference number printed above in all your future correspondences.
- After completing the project, 2 to 3 page write-up (synopsis) needs to be uploaded on to the following Google Forms link <https://forms.gle/YMn9K7XETu96i8KbA>. The synopsis should include following:
 - Project Reference Number
 - Title of the project
 - Name of the College & Department

- 4) Name of the students & Guide(s)
 - 5) Keywords
 - 6) Introduction / background (with specific reference to the project, work done earlier, etc) - about 20 lines
 - 7) Objectives (about 10 lines)
 - 8) Methodology (about 20 lines on materials, methods, details of work carried out, including drawings, diagrams etc)
 - 9) Results and Conclusions (about 20 lines with specific reference to work carried out)
 - 10) Scope for future work (about 20 lines).
- e) In case of incompeted projects, the sanctioned amount shall be returned to KSCST.
 - f) The sanctioned amount will be transferred by NEFT to the bank account provided by the College/Institute.
 - g) The sponsored projects evaluation will be held in the Nodal Centre/Online Mode and the details of the same will be intimated shortly by email / Website announcement.
 - h) After completion of the project, soft copy of the project report duly signed by the Principal, the HoD, Guide(s) and student(s) shall be uploaded in the following Google Forms Link <https://forms.gle/PciAaAVisn6bn8AM7>. The report should be prepared in the format prescribed by the university.

Please visit our website for further announcements / information and for any clarifications please email to spp@kscst.org.in

Thanking you and with best regards,

Yours sincerely,



(H. Hemanth Kumar)

Copy to:

- 1) The HoD
MECHANICAL ENGINEERING
BEARYS INSTITUTE OF TECHNOLOGY, MANGALURU
- 2) Prof. ARVIND KUMAR
MECHANICAL ENGINEERING
BEARYS INSTITUTE OF TECHNOLOGY, MANGALURU
- 3) THE ACCOUNTS OFFICER
KSCST, BENGALURU

This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22HS46S43830156

To
AHMED SHAQEEQ K M
THAYATHBANE, KOTTAMUDI, HODAVADA VILLAGE
PALOOR POST, MADIKERI TALUK
MADIKERI
KARNATAKA - 571214
PH. NO :7259512003



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

AHMED SHAQEEQ K M

for successfully completing the course

Psychology of Stress, Health and Well-being

with a consolidated score of **67** %

Online Assignments	18.53/25	Proctored Exam	48/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **2011**

Jan-Apr 2022
(12 week course)

Prof. Hemant B Kaushik
Head, Center for Educational Technology
NPTEL Coordinator, IIT Guwahati



Indian Institute of Technology Guwahati



This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL20CE18S1786190

To

AHMED SHAQEEQ K M
279, THAYATH BANE, KOTTAMUDI, HODAVADA
VILLAGE, PALOOR POST
HODAVADA
KODAGU
KARNATAKA - 571214
PH. NO :7259512003



No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
AHMED SHAQEEQ K M
for passing the course

Digital Land Surveying and Mapping (DLS&M)

with Score* **84** %



Prof. V. C. Srivastava
Coordinator, Continuing Education Centre
IIT Roorkee

Feb-Apr 2020
(8 week course)

Prof. Inderdeep Singh
NPTEL Coordinator
IIT Roorkee



Indian Institute of Technology Roorkee



*Continuous online assessment score

To validate and check scores: <https://nptel.ac.in/noc>

This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22CE11S13830007

To
AHMED SHAQEEQ K M
THAYATHBANE, KOTTAMUDI, HODAVADA VILLAGE
PALOOR POST, MADIKERI TALUK
MADIKERI
KARNATAKA - 571214
PH. NO :7259512003



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

AHMED SHAQEEQ K M

for successfully completing the course

Geosynthetics and Reinforced Soil Structures

with a consolidated score of **53** %

Online Assignments	13.44/25	Proctored Exam	39.75/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **138**

Devendra Jalihal

Prof. Devendra Jalihal
Chairman
Centre for Continuing Education, IITM

Jan-Apr 2022
(12 week course)

Prof. Andrew Thangaraj

Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras



Indian Institute of Technology Madras



This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22CE32S33830023

To
AHMED SHAQEEQ K M
THAYATHBANE, KOTTAMUDI, HODAVADA VILLAGE
PALOOR POST, MADIKERI TALUK
MADIKERI
KARNATAKA - 571214
PH. NO :7259512003



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

AHMED SHAQEEQ K M

for successfully completing the course

Advanced Foundation Engineering

with a consolidated score of **54** %

Online Assignments	11.63/25	Proctored Exam	42/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **34**

Prof. Jayanta Mukhopadhyay
Dean Outreach
IIT Kharagpur

Jan-Apr 2022
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22CE21S33880159

To
AHMED SHAQEEQ K M
THAYATHBANE, KOTTAMUDI, HODAVADA VILLAGE
PALOOR POST, MADIKERI TALUK
MADIKERI
KARNATAKA - 571214
PH. NO :7259512003



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

AHMED SHAQEEQ K M

for successfully completing the course

Expansive Soil

with a consolidated score of **62** %

Online Assignments	14.71/25	Proctored Exam	47.25/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **93**

Jan-Mar 2022
(8 week course)

Prof. Hemant B Kaushik
Head, Center for Educational Technology
NPTEL Coordinator, IIT Guwahati



Indian Institute of Technology Guwahati



This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22CE45S23830200

To
AHMED SHAQEEQ K M
THAYATHBANE, KOTTAMUDI, HODAVADA VILLAGE
PALOOR POST, MADIKERI TALUK
MADIKERI
KARNATAKA - 571214
PH. NO :7259512003



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

AHMED SHAQEEQ K M

for successfully completing the course



Rural Water Resources Management

with a consolidated score of **76** %

Online Assignments	15.63/25	Proctored Exam	60/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **213**

Jan-Apr 2022
(12 week course)

Prof. Sridhar Iyer
Head CDEEP & NPTEL Coordinator
IIT Bombay



Indian Institute of Technology Bombay



This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22CE09S43880443

To
AHMED SHAQEEQ K M
THAYATHBANE, KOTTAMUDI, HODAVADA VILLAGE
PALOOR POST, MADIKERI TALUK
MADIKERI
KARNATAKA - 571214
PH. NO :7259512003



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

AHMED SHAQEEQ K M

for successfully completing the course

Development and Applications of Special Concretes

with a consolidated score of **47** %

Online Assignments	15.83/25	Proctored Exam	31.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **139**

Pathish

Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Jan-Mar 2022
(8 week course)

Satyaki Roy

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL22CE09S43880443

To validate and check scores: <https://nptel.ac.in/noc>



NPTEL Online Certification



This certificate is awarded to

AHMED SHAQEEQ K M

for successfully completing the course

Patent Law For Engineers And Scientists

on 18/06/22

Devendra Jalihal

Prof. Devendra Jalihal

Chairman
Centre for Continuing Education, IIT Madras

T. M. J.

Prof. Andrew Thangaraj

Coordinator
NPTEL, IIT Madras



Indian Institute of Technology Madras



Students win in ROBOSOCCKER

3 students from the Bearys Institute of Technology Mr. Syed Hyder Mahadi, Mr. Mohiuddin Nuiman, and Mr. Abbas Nihal, pursuing their first-year B.E in Electronics and Communication Engineering, have secured the 3rd position in the National Level Robosoccer competition held at Manipal University, Jaipur on 3rd March 2023. Students had received training from Comedkares, the Mangalore Innovation hub in Sensors, Robots etc.

The competition witnessed a total of 17 state teams, out of which only one team from each state was selected to participate in the tournament.

The team from Bearys Institute of Technology was the only team from Karnataka that made it to the event.

The team led by Mr. Syed Hyder Mahadi put up an outstanding performance and won the third prize.



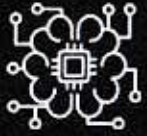
Fig. 1 Students taking part in the Competition



Fig 2. Judges at the Robosoccer Competition



Fig. 3 Mr. Syed Hyder Mahadi, Mr. Mohiuddin Nuiman, and Mr. Abbas Nihal with their Robo's



SIGFEST'23

CERTIFICATE OF APPRECIATION

THIS CERTIFICATE IS PRESENTED TO :

Syed Hyder Mahadi

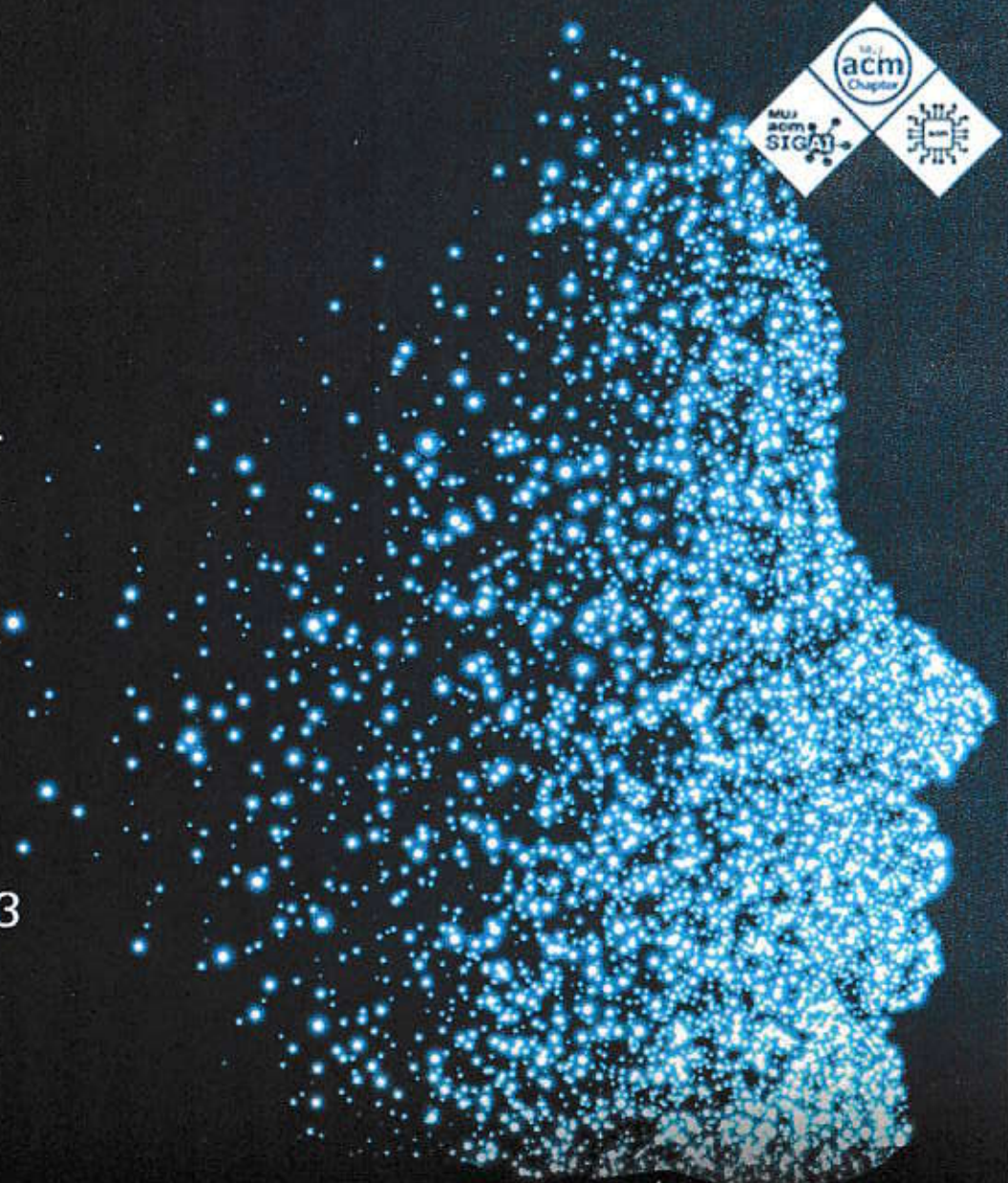
For placing 3rd in RoboSoccer SIGFEST'23
held between 2nd-4th March 2023 at
Manipal University Jaipur.

Manushi Shashank
Convener, SIGFEST

Mr. Deevesh Chaudhary,
Faculty Co-ordinator,
MUJ ACM SIGAI Chapter

Dr. Shiva Prasad H.C.
Faculty Co-ordinator,
MUJ ACM SIGBED Chapter

Umang,
Convener, SIGFEST





SIGFEST'23

CERTIFICATE OF APPRECIATION

THIS CERTIFICATE IS PRESENTED TO :

Mohidin Nuiman

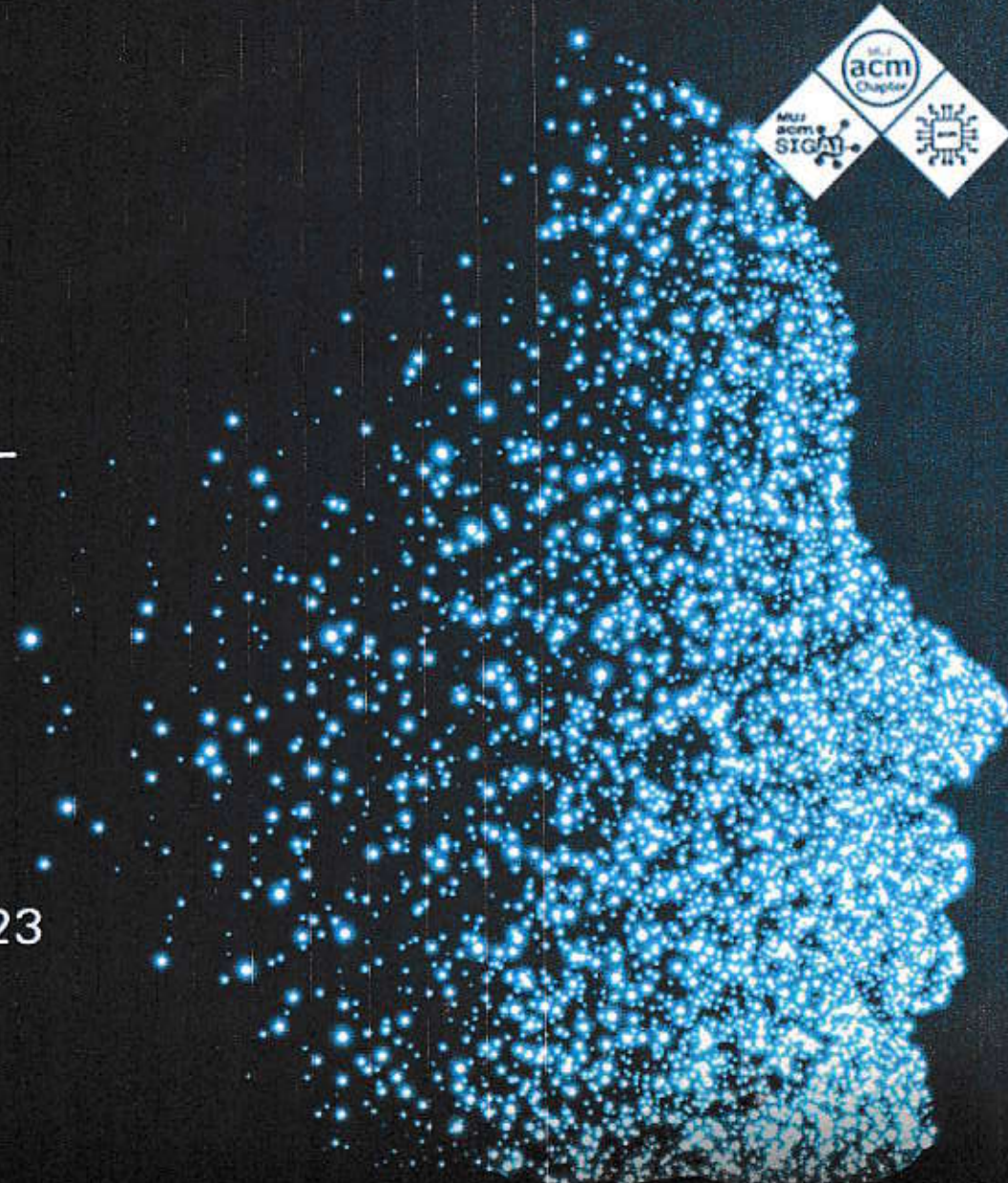
For placing 3rd in RoboSoccer SIGFEST'23
held between 2nd-4th March 2023 at
Manipal University Jaipur.

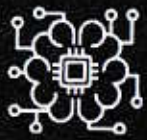
Manushi Shashank
Convener, SIGFEST

Mr. Deevesh Chaudhary,
Faculty Co-ordinator,
MUJ ACM SIGAI Chapter

Dr. Shiva Prasad H.C.
Faculty Co-ordinator,
MUJ ACM SIGBED Chapter

Umang,
Convener, SIGFEST





SIGFEST'23

CERTIFICATE OF APPRECIATION

THIS CERTIFICATE IS PRESENTED TO :

Abbas Nihal

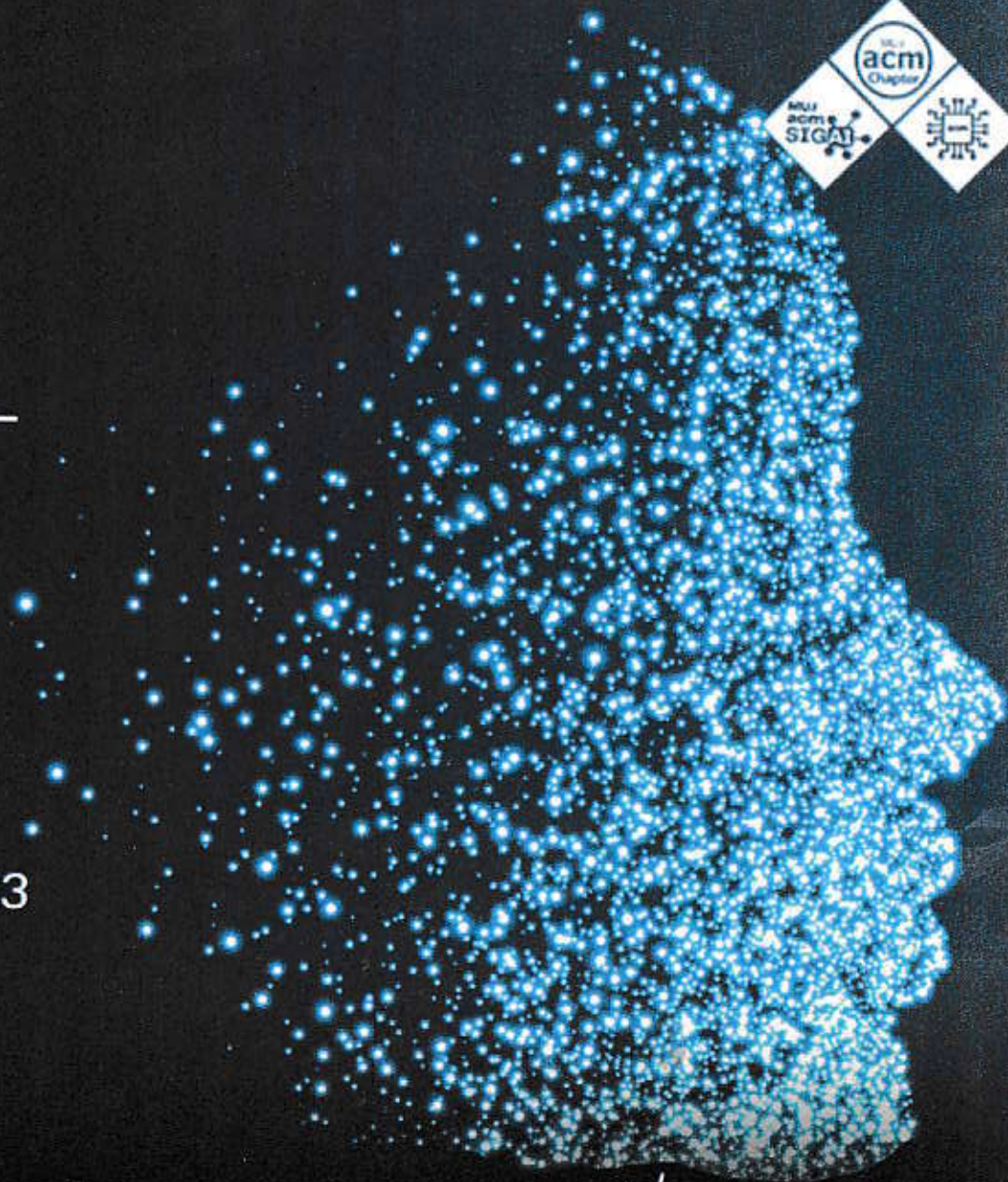
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Mr. Deevesh Chaudhary,
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MUJ ACM SIGAI Chapter

Dr. Shiva Prasad H.C.
Faculty Co-ordinator,
MUJ ACM SIGBED Chapter

Umang,
Convener, SIGFEST



SUPERSONIC AERODYNAMICS RESEARCH LABORATORY

BIT has taken firm but sure steps in ensuring that its campus becomes the preferred destination for quality research. In a short span BIT has established 4 research centres that have been approved by VTU.

In recent years, the ability to predict the behavior of supersonic flow has become increasingly important. The pressures acting on the blunt base of a body in a supersonic flow has become the topic of interest for many researchers in the field of ballistics. Recognising the rapid growth of interest in supersonic drag problem associated with the development of supersonic aircraft, projectiles, missiles and spacecraft, we at Bearys Institute of Technology, Mangalore have designed an experimental facility to study the base drag arising from flow separation behind blunt bases with the help of internal flow through sudden expansion region.

The laboratory is equipped with state of the art equipments like – Electric powered screw type air compressor (volume discharge 55 cfm of air, pressure 138 psi), IE2 TEFC Squirrel cage Induction Motor 11 kW, 400 V, 50Hz, Two mild steel air storage pressure vessels volume 2 m³, pressure 200 psi, A settling chamber with provision for model mounting at the centre with a three dimensional traverse mechanism having six degrees of freedom (3 translational and 3 rotational).





SUPERSONIC AERODYNAMICS RESEARCH LABORATORY



A 2 Day International Conference on Sustainable Urban Development, Resource Conservation and Food Security : SURF – 19



A two days International Conference on “Sustainable Urban Development, Resource Conservation and Food Security” ‘Surf- 19’ was organized by BIT and BEADS at Bearys Knowledge campus, Innoli, Mangalore on 26th -27th April, 2019. The inauguration ceremony was held at the International seminar hall with the invocation of Almighty. Dr. P Mahabaleswarappa Welcomed the gathering and also introduced the chief guest of day one Dr. Alok Kumar Srivatsav, Chief Scientist and Director, CFTRI Mysore, and the guest of honors DR. S A Khan, Professor, Department of Mechanical Engineering, International Islamic University Malaysia Kuala Lumpur, Malaysia, Mr. Bharat Mansata is a writer and environmental activist, involved in ecological regeneration. Mr. Amarnadh Adusumali is a farmer/entrepreneur who runs an organic farm near Madurai. And Mrs. Deepa Vedavyas, Principal, Ecopod Architects, Mr. Syed Mohammed Beary, Hon. Chairman, Bearys Group & Bearys Academy of Learning. Mr. Mazahr S Beary, Trustee, Bearys Academy of Learning and Principals & HODs of various departments. In his speech, he said The SURF-19 is intended to provide the participating delegates an opportunity to listen to and interact with eminent subject experts from reputed institutes and industry across the globe. The conference will witness two sessions of Keynote addresses. The sessions will be conducted in relevant areas of interest. All the guests and dignitaries on the dais were florally welcomed.

Mr. Syed Mohammed Beary, gave the presidential address, in his address added that the greed and pride of humans have led to the destruction of natural resources. “If this continues, the scenario will soon change and in next few years, people of metro cities like Bengaluru and others will have to migrate during summer to other places” he said while adding that India was a leader in sustainable developing till a century ago. “Some of the examples for this are Taj Mahal and the architecture of temples in Tamil Nadu. We are accountable for the protection of environmental resources” he added. Then there was Release of Abstract Proceedings Book by Dr. Alok Kumar Srivastava & Dr. S.A. Khan with the members on the dais.

Dr. Alok Kumar Srivastava, in his speech, said that with sustainable crops the soil fertility and nutrition in crops will increase. He also narrated that, India once use to import wheat and other products, whereas now it is the exporter of many commodities. He emphasized that still, we need to work hard to achieve chemical free commodities.

Dr. SA Khan, in his speech, said: "man has to learn and implement many things from the nature" he said the birds fly in the air keeping the body shape as V and the design of fighter planes follows exactly in V shape so as reduce the aerodynamical friction and drag is reduced by 30%. He also took an example of the plumber who connects the horizontal pipe the water tank which reduces the direct pressure of water in one direction.

Mr. Akram Sayeed, An Entrepreneur and community leader, Dallas, USA. In his speech said the globe is under three threats in the coming years 1. Loneliness, the urbanization which is the cause. 2. Extreme weather conditions causing Tsunamis, Glacier, fires in the woods. 3. Global economic vulneraries. He urged the researchers to work towards overcoming these world threats. Dr. Mustafa Basthikodi presented the Concluding remarks and gave thanks to Chief Guest and Guest of honour.

In the same venue, there was Panel Discussion on Food Security, Keynote Address and Presentation was by Dr. Alok Kumar Srivastava, and Presentation By Mr. Bharat Mansata, then followed by Presentation by Mr. Amarnadh Adusumali the event was moderated by Dr. Basavaraj M., Professor & Head, Mechanical Engineering, BIT, Mangalore. There were around 60 papers were presented in the different venues under four tracks along with poster presentation.

In the post-lunch session, there was Panel Discussion on "Advances and Recent Trends in Engineering and Technology" in the International Seminar Hall. The moderator for the Panel was Dr. Aziz Musthafa. The Keynote Address and Presentation was by Dr. S. A. Khan. Followed by Presentation by Dr. K Chandrasekaran, Professor & Former Dean, NITK, Suratkal. There was Presentation by Dr. B H Venkataram Pai, Joint Director, MIT, Manipal, then the presentation was by Dr. Somashekhar Bhat Professor & Head of ECE, MIT, Manipal and at the end there was an interesting question and answer session. The day one ended with music and feast by name SURF Banquet at BIT Lawn.

The day two began with an invocation of Almighty. The guest on the dais were Dr. Ken Yeang, Renowned Architect, Ecologist, Planner, Malaysia, Mr. Mansoor Khan, Renowned Film Maker, Mumbai. Dr. S.A. Khan, Dr. Bhakti Devi, Liveability Strategist, Bangalore, Ar. Deepa Vedavyas, Ecological Architect, Harvard University, Mr. Syed Mohammed Beary, Dr. Mahabaleswarappa P, Ar. Ashok LP Mendonca, Dr. Aziz Musthafa, Mr. Mazhar S Beary, Dr. Mustafa Basthikodi.

Ar. Ashok LP Mendonca, Principal BEADS welcomed the gathering in an innovative way by showing concern on saving mother earth. Followed by Inaugural address by Mr. Syed Mohammed Beary, in his speech is said one of the reasons for all problems is the greed and the solution would be sustainable development and said it is the experience which makes the man perfect and not the education. And social happiness is paramount important not individual happiness.

The keynote address was by Mr. Mansoor Khan, Renowned Author, ecologist and Film Maker, Mumbai. In his address, he said the exponential growth is the problem for resources and he has defended it. He said “deal with reality or the reality will deal with you”.

The Panel Discussion on “Sustainable Urban Development” was held at International Seminar Hall. The Keynote Address and Presentation was by Dr. Ken Yeang, he spoke about the green architecture for Sustainable Urban Development followed by Presentation by Dr. Bhakti Devi and Ar. Deepa Vedavyas. The moderator for the session was Ar. Ashok LP Mendonca followed by question and answer session. The best paper and best poster awards were distributed by Chairman and dignitaries on the dais. The two days program ended with vote of thanks by Dr. Mustafa Bastikodi followed by National Anthem.









The conference was held on the 15th of May, 2015, at the...
 The main objective of the conference was to discuss the...
 The conference was organized by the...
 The following speakers participated in the conference:
 Mr. Bharat Vaidya, Director, National Institute of...
 Mr. Anand...
 Mr. ...
 The conference was held in a grand...
 The conference was a great success and...
 The conference was held in a grand...
 The conference was a great success and...

The conference was held in a grand...
 The conference was a great success and...
 The conference was held in a grand...
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 The conference was a great success and...



Bearys
Institute
of Technology
MANGALORE

BEARYS INSTITUTE OF TECHNOLOGY
(Approved by AICTE, New Delhi, Affiliated to Visvesvaraya Technological University, Belagavi)
Near Mangalore University, Lands End, Innoli
Mangaluru, Karnataka-574153

**“Sustainable Urban Development, Resource Conservation
and Food Security”, 2018-19**

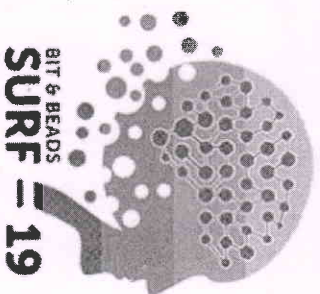
Attendance Sheet

Sl. No	Name	Designation and Department	Signature
01	AFIYA-A	Asst. Prof. CIVIL	[Signature]
02	Abijith Jain	Asst. Prof - civil	[Signature]
03	Dr. Anjum Khan	Prof. (mathematics)	[Signature]
04	Shankar Hegde	Asst. Prof (math)	[Signature]
05	Mustafa Khalid	Asst. Prof. (Chem)	[Signature]
06	Zaher Ahmed	Asst. Prof. (EIE)	[Signature]
07	Abdel Jattar	Asst. Prof. (EIE)	[Signature]
08	Mubeena	Assoc. Professor (ECE)	[Signature]
09	Dr. Abdullatif	HOD	[Signature]
10	Rameshthara CT	Prof. civil	[Signature]
11	Adwiti	Placement Officer & Placed	[Signature]
12	Dr. Vinutha P.R	Associate Prof	[Signature]
13	Majumath Ichcha	Assistant Professor, ME	[Signature]
14	Arun Kumar	Assistant Professor (ME)	[Signature]
15	Mohamed Kader Didi	Assistant Professor (ME)	[Signature]
16	Imran Mokal	Assistant Professor (ME)	[Signature]
17	Dr. B. Aziz Mally	Professor	[Signature]
18	Jalaluddeen	Assistant Professor	[Signature]
19	MOHAMMED SINAR	ASST PROFESSOR	[Signature]
20	Vinod Kumar. N.	Asst. Professor	[Signature]
21	Dr. Varanatha Kumar	Assoc. Professor	[Signature]
22	Imran. U.A	Asst. Prof.	[Signature]
23	Abubakar shameer	Asst. Prof (EIE)	[Signature]
24	Amritha bekal	Asst. Prof (CSE)	[Signature]



Bearsys
Institute
of Technology
MANGALORE

BEADS
Bearsys Enviro-Architecture
Design School
MANGALORE



Certificate of Participation

This is to certify that Mr/MS/Dr. Abhishek Jain

has participated in the International Conference on "Sustainable Urban
Development, Resource Conservation and Food Security"

held at Bearsys Knowledge Campus on 26th - 27th April 2019

CONVENER

Mustafa Basthikodi

GENERAL CHAIR

P Mahabaleswarappa

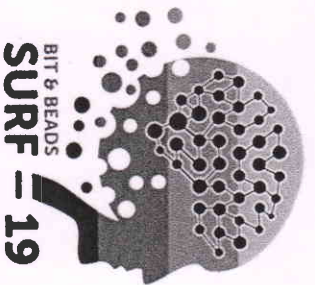
CHAIRMAN

Syed Mohamed Beary



Bear's
Institute
of Technology
MANGALORE

BEADS
Bear's Enviro-Architecture
Design School
MANGALORE



Certificate of Appreciation

This certificate is awarded to Mr/Ms/Dr Anyum Khan

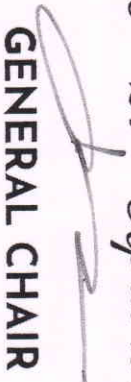
Chaired a Session on Basic Sciences in the

International Conference on "Sustainable Urban Development, Resource Conservation & Food Security" held at Bearys Knowledge Campus on

26th-27th April 2019


CONVENER

Mustafa Basthikodi


GENERAL CHAIR

P Mahabaleswarappa


CHAIRMAN

Syed Mohamed Beary



Bears
Institute
of Technology
MANGALORE

BEADS
Bears, Enviro-Architecture
Design School
MANGALORE

Certificate of Presentation

This is to certify that Mr/Ms/Dr Abdullah Gulaboi
has authored/presented the paper titled Fuzzy Shannon
Entropy for Face Recognition.

in the International Conference on "Sustainable Urban Development,
Resource Conservation and Food Security"
held at Bears Knowledge Campus on 26th - 27th April 2019

CONVENER
Mustafa Basthikodi

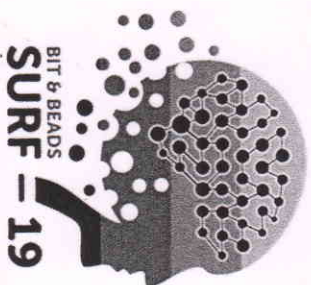
GENERAL CHAIR
P Mahabaleswarappa

CHAIRMAN
Syed Mohamed Beary



Bearys
Institute
of Technology
MANGALORE

BEADS
Bearys Enviro-Architecture
Design School
MANGALORE



Certificate of Appreciation

This certificate is awarded to Mr/Ms/Dr Abdullah Gubbi

Chairman a Session on Electronics and Communication Engineering in the

International Conference on "Sustainable Urban Development, Resource

Conservation & Food Security" held at Bearys Knowledge Campus on

26th-27th April 2019

CONVENER

Mustafa Basthikodi

GENERAL CHAIR

P Mahabaleswarappa

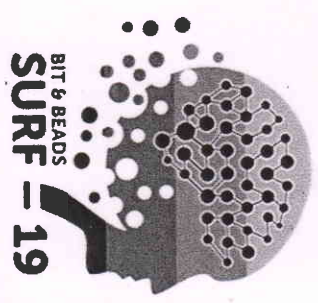
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Chaired a Session on Basic Sciences in the

International Conference on "Sustainable Urban Development, Resource Conservation & Food Security" held at Bearys Knowledge Campus on

26th-27th April 2019

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An online Second International Conference on

“Sustainable Urban development, Resource conservation & Food security”

SURF - 2020

THE CARBON NEUTRAL CONFERENCE

August 6, 7 & 8

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About the Conference

Amongst the several verticals of the accomplished Bearys Group, education holds a special place in the heart of the promoters who profess that education as a path to their salvation. With that deep conviction, Bearys Education, first conceived in the year 1906 has now flowered in to an establishment of 22 institutions covering the entire spectrum of primary, secondary, teachers training, arabic, vocational training, engineering and architecture, all coming under the aegis of Bearys Academy of Learning. Among these, the three institutions namely BIT, BEADS and BIT Polytechnic, located at the Bearys Knowledge Campus, Innoli, Mangalore occupy a place of pride, tasked with the responsibility of grooming professionals to address the sustainability challenges confronting the planet. Located in a verdant setting of a plateau, lying at the feet of the majestic western ghats, young minds are nurtured by nature to become stewards of planet earth using technology with due sensitivity to serve the needs of the people and the nation.

Planet Earth and life as we know it, is clearly at the cross roads. The unrelenting exploitation by the human race, from the time of industrial revolution, has gouged and ripped off sensitive natural systems of the living planet resulting in irreparable damage to the natural order. Every Environmental Impact Assessment report of human activity, only points to damning results. The latest IPCC report has sounded a bugle call which fixes a ceiling of limiting global temperature to 1.5deg C from pre-industrial times failing which, we would be triggering cataclysmic results having a non reversible consequences for life on this planet. Strangely humanity in its pursuit of its so called development agenda, has no clear understanding the damage that it has already subjected to various natural systems, which contribute to the critical balance of the planet.

With this being a reality, entire humanity and academia in particular, should be at the forefront of generating data, debating and offering alternative models of living and technology so that the pace of destruction be identified, slowed and then help reverse and create the much required space for healing so that the future of humanity and life are not brought to brink of total annihilation.

So from the platform of SURF 2020, the online Second Carbon Neutral International Conference, we call upon researchers, academicians, technocrats, NGOs and research establishments, to contribute their original research papers to add to the body of knowledge and lend their might, in taking on the potent challenge facing humanity.

Call for Papers

The softcopy of full length manuscripts (in pdf format) shall be submitted through the Easy Chair Conference Management System:

<https://easychair.org/conferences/?conf=surf20200>

Major topics of conference include but not limited to:

Call for Poster

Submissions for posters are invited from UG / PG students,

CASH AWARD - FOR TOP 2 POSTER PRESENTATIONS

For Registration Fees & Details: <https://icsurf.com/submission/>

Track 1: Sustainable Urban Development

- Urban Sustainability and shift to Low Carbon development
- Sustainable housing and urban neighborhoods
- Sustainable Construction Materials Systems & Technologies
- Minimalistic Approach, Adaptability and Sustainability
- Sustainable Vernacular Architecture
- Sustainable Design and Human Behavior: Changing Lifestyles
- Measuring Sustainability: Assessment and Buildings Performance
- Sustainability in Developing Countries
- Planning for Sustainability: Local versus national initiatives
- Sustainability Opportunities and Challenges
- Environmental Behavior for sustainable consumption
- City, Community and Building for Resilience – preparing for the carbon and climate crunch
- Smart Cities, Smart Healthcare, Smart Homes and Intelligent buildings.

Track 2: Resource Conservations

- Energy Conservation
- Embodied energy in building materials
- Smart Grids
- Integrating of Renewable Energy Sources for Urban development
- Eco Design and Eco Friendly Development
- Green Development and Construction Systems
- Low Energy Architecture
- Low Cost Building
- Zero Carbon & Low Energy Housing and Mixed-us Development
- Climate Change Impact on the built environment
- Energy Use and Management
- Efficiency and environmental impacts of resource utilization
- Reduce, Reuse, Recycle and Reproduce
- Energy optimization
- Energy saving techniques

Track 3: Food Security

- Food Security and Resilience
- Food Preservation and Safety
- Agricultural and Food Economics
- Food security, poverty and sustainability
- Starvation and Food waste management
- Cold storage and logistics management
- Minimum support price help in food security
- Contribution of cooperative society in food security
- Balanced diet and nutrition education policy
- Environmental and Climate Impacts on Food Security
- Emerging technologies in food production
- Improved irrigation and fertigation system
- Post harvest technology to achieve food security
- Food production challenges
- Food supply chain management
- Integrated pest management systems

Track 4: Advances and Recent Trends in Engineering and Technology

- Civil Engineering
- Computer Engineering and Technology
- Electrical and Electronic Engineering
- Environmental Engineering
- Electronics and Communications Engineering
- Information Science and Engineering
- Materials Sciences and Engineering
- Mechanical Engineering and Technology
- Power & Engineering

IMPORTANT DATES

- Submission of Abstract - Jul 10, 2020
- Submission of Full Paper - Jul 14, 2020
- Notification of Acceptance - Jul 26, 2020
- Registration Deadline - Jul 31, 2020
- Camera Ready Submission Deadline - Aug 2, 2020
- Conference - Aug 6, 7 & 8 2020



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For further details contact:

Convener: Prof (Ar) Ashok LP Mendonca / +919448372919

Paper queries: Dr Abdulla Gubbi / +918310916940/8147336952

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Vice Chancellor, VTU

DAY 2
AUG 11

10.00 AM - 12.30 PM



KEYNOTE ADDRESS
MR. V SURESH
Chairman, IGBC

DAY 3
AUG 12

10.00 AM - 12.30 PM



KEYNOTE ADDRESS
AR. HABEEB KHAN
President, COA



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AR. JIT KUMAR GUPTA
Chairman, IGBC, Chandigarh



KNOWLEDGE SESSION- III
DR. RAMANI S & DR. GEETA V
CTX Green, Canada-India



KNOWLEDGE SESSION -IV
MS. KSHAMA RANGAN &
AR. ASHOK MENDONCA

3.00 PM - 4.30 PM



KNOWLEDGE SESSION- II
MR. GOPALKRISHNA BHAT
Sustainability Expert

3.00 PM - 4.30 PM



KNOWLEDGE SESSION - IV
MR. PEDRO ORTIZ, MR. MAHEEP
THAPAR
Urban Planners

3.00 PM - 4.30 PM



FACULTY SESSION
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WEBINAR #1

DATE: 16.07.2020,
THURSDAY, 6 PM-7.30 PM

Webinar #2: 23.07.2020
Webinar #3: 30.07.2020

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AUG 6 | 7 | 8

SURF-2020

DAY-1 (6/8/2020)

TRACK	ROOM NO	EXTERNAL SESSION CHAIR	INTERNAL SESSION CHAIR	Moderator	No of participants
CS	01	Dr. Syed Naimatullah Hussain +91-9108759575 syedniyamatulla.cse@secab.org	Dr. Aziz Musthafa 9886607669 azizmusthafa@gmail.com	Prof. Ankitha & Prof. AsifMulla	12
CIVIL	04	Dr. Hiremath M N 9886217050 mnhiremath007@rediffmail.com	Prof. Zaheer Ahmed 8095778861 Zaheer_civil@bitmangalore.edu.in	Prof. Vinay & Prof. Chethana	14
ARCH	03	Prof. Neville D'Souza, Nitte school of arch. 9845082323, 4thdimension@live.in	Ar.RukshanaAlgur 8088581007 rukshana@beads.edu.in	Ar.Arbindo	12
	02	Ar.Irshad M Punekar, 9880415795 Architectimpunekar1@gmail.com	Ar. Thahir Siddiqui 9911476404 tahir@beads.edu.in	Mr. thanveer	10

DAY-2 (7/8/2020)

TRACK	ROOM NO	EXTERNAL SESSION CHAIR	INTERNAL SESSION CHAIR	Moderator	No of participants
EC	01	Prof.Niranjana UC 9242425312 ucniranjana@yahoo.com	Prof.MubeenaParveen Taj 9448179774 Magiemubeena71@gmail.com	Prof. Shameez/Prof.Jabbar	08
BS/Food	02	Dr. S. Samshuddin samsuddins@sdmit.in 9880307746	Dr. Vinutha/Dr. Ajum Khan 9916888142 vinuthapr@gmail.com/ hod_basicscience@bitmangalore.edu.in	Prof .sharanHegde&Prof.Shruthi	09
general	03	Prof.AgneetaAiman, 9448327908, Agneetaarun7280@gmail.com	Mrs.MamathaBhandary 9739459207	Prof.Musthafa Khaleel/Prof .Imran UA	05

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Civil	04	Dr.Palakshappa 9448158900 hdc_civil@pace.edu.in	Prof.Purshotham 9986322105 hodcivil@bitmangalore.edu.in	Prof .Hasan Prof .Naveen Kumar	09

DAY-3 (8/8/2020)

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CS	01	Dr. Syed Naimatullah Hussain +91-9108759575 syedniyamatulla.cse@secab.org	Prof.Sinan 9886737890 sinan@bitmangalore.edu.in	Prof .poornima & Prof .Arpana	14
Architecture	03	Prof.IndrajeetShamkantJadhav 9822107531 isikop@rediffmail.com	Ar.Sunny Denial 9880205825 sunny@beads.edu.in	Ar.Arbindo&Mr.Thanveer	11
Mech	02	Dr.Anil 9844463770 anilsowmyak@gmail.com	Dr.MahendraDongadi 9972788448 hodmech@bitmangalore.edu.in	Prof .Imran Mokashi & Prof Manjunath	08
POSTER	04	ALL HOD'S are SESSION CHAIRS			06



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IRRIGATION SYSTEM FOR RURAL DEVELOPMENT

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