



**Er. PERUMAL MANIMEKALAI
COLLEGE OF ENGINEERING**
ACCREDITED BY NBA & NAAC WITH 'A' GRADE
Koneripalli, HOSUR - 635 117.



REPORT ON

TWO WEEK STUDENTS INDUCTION PROGRAM

FOR FIRST YEAR B.E/B.Tech., STUDENTS

Batch - 2022-23



Organized by

DEPARTMENT OF SCIENCE & HUMANITIES

Submitted by

1. Dr. SP. Prabhakaran, ASP- Physics
2. Mrs. Rathi, AP-English
3. Dr. M. Rajesh, Head-Placement

About Bridge Course

Department of Science and Humanities organized the Two week induction program for the fresh entrants of B.E / B. Tech. programme, in line with the AICTE requirement. The objective of this program was; *To help the engineering entrants adjust and feel comfortable in the new academic environment and to furnish them with an ease of transition to mainstream engineering studies through the introduction of ethos and culture of the institution*

Reputed personalities visited to our campus for providing Motivation and Orientation session stretched for couple of week. Total of 672 students participated in this program which was held from 28th November to 09th December 2022. We planned the course duration as 66 hours for every batch.

Scope of Bridge Course

This Bridge Course Scope included, but not limited to, the following areas;

S.No	Activity	Description
1.	Common Orientation Program	First day student's Enrollment and orientation Program with Parents Meet
2.	Students Excellence and Learning program	1. Department Interaction a. Mentor address – Scope & Job perspectives of respective department b. Department Lab Visit
		2. Universal Human Values
		3. Innovation and Entrepreneurship awareness
3.	Proficiency Modules	1. Communication – Language 2. Computer Basics 3. Mathematics 4. Internet of Things (IOT) 5. Cyber Security 6. Demo on electronic Kits

4	Physical Activities	1. Out Bound Training 3. Games
5.	Creative Arts	1 Crash course on documentary film making 3. Music and Dance
6.	Literary Activities	1. Reading & Writing 2. Debate 3. Enacting & Play
7.	Lectures by Eminent People	1. Self Confidence & Goal Settings 2. Campus Etiquettes & Time Management 3. Industry Expectations

Participants Summary

We formed 9 Batches out of 672 students with 75 students per Batch. We classified students based on their gender and medium of studies in order to deliver the relevant content for their standard of understanding.

Among the nine batches 3 batches were girls and 6 batches were boys. One batch from girls and one batch from boys belong to Tamil medium students. We allocated our faculty members as Batch in-charges for nine batches and insist them to coordinate the batches throughout the bridge course.

S.No	Department	No. of Students
1.	AERO	32
2.	CIVIL	16
3.	CSE	124
4.	ECE	125
5.	EEE	60
6.	IT	121
7.	MECH	34
8.	MCO	42
9.	AIDS	60
10	CSBS	58
	Total	672

Brief Note on various events

1. Outbound Training (OBT)

In Outbound Training students had been given outbound activities to improve leadership, communication skills, planning, delegation, team-work and motivation. Participants are divided into teams and assigned tasks or activities for completion in a specified time. Generally outbound training is offered out of campus. Due to huge strength for safety factor we conducted this inside our campus itself. **Mr. Saravna Perumal** and his team offered this outbound training for our students.



- This Outbound Trainings helped our students to enhance the individuals and groups, discover their latent talent and strengths in a safe, secure and supportive learning atmosphere.
- From this outbound training we identified that students have developed team strength and unity and improve interpersonal skill and rapport building.

2. “Express to Excel” – Basic Communication Skill

We understand that being able to communicate effectively is one of the important life skills. Hence, we offered a 3 hours session to our students on basic communication improvement. **Ms. Madhumitha Giri and Ms. Harsitha** explained their approach to improve their communication skills and make them more confident to speak in English. They mainly focused on the LSRW skills. Students actively participated on more exercises conducted by the trainers to improve their pronunciation.



Session Glimpses “Express to Excel”

3. Universal Human Values



Session by Mr. Ilangovan

As instructed by AICTE, it is mandatory to provide training on Universal Human Values for first year students. **Mr. R. N. Ilangovan, and Mr. Kathiravan, Erode** delivered the sessions. They emphasized the role of education as well as right understanding of self and body in order to find a perfect harmony between an individual, society and the nature.



Session by Mr. Kathiravan

This session helped our students to build a strong ethical value in life and career. Students stated that it was very useful and informative session, learnt about the importance of Relationship and Human value for harmony in personal life.

4. Technical Training

Technical training session was conducted to the students to create aware of and enrich their knowledge on recent technology related to their core.

4.1. Demo on Basic Electronic kits



Demo on Basic Electronic Kits & Sensors session was delivered by **Mr.M.E. Rajamanikam**, to the B.E. ECE students. He explained with an introduction to the fundamentals of Sensors and Transducers.

He briefed about capacitive, resistive and inductive transducers .which are used for simple projects and Appliances.

4.2. Introduction to Basics of Internet of Things (IOT)

Introduction to basics of IOT session was given by **Mr. Rajkumar Kalaimani, ICT Academy** to the students of B.E CSE, ECE and B.Tech IT, AIDS & CSBS.

He briefed that how we can connect everyday objects like kitchen appliances, cars, thermostats, baby monitors to the internet via embedded devices. He mentioned about the 4 important types of IOT which in trends. He highlighted the smart manufacturing technology.



4.3. Introduction to Cybersecurity and simple Coding and Hacking.

As the part of technical training, Session on Cyber security an Overview (Simple Coding and Hacking knowledge to secure information) was given to the students of B.E. CSE & B.Tech IT, CSBS & AI. This session was handled by **Mr. Kumara vel, ICT Academy**. He elaborated about an application of technologies, processes, and controls to protect systems, networks,

programs, devices and data from cyber attacks. Students stated that they understood the concepts of different Hackings.and simple coding.



“Cyber security an overview” Session

4.4. Automation, Robotics and 3D Printing.



Demonstration for students at SVIC, PMC TECH.

For manufacturing core students we planned a half day session on “introduction to Automation, Robotics and 3 D printing”. **Mr. Gajendran, Mr. Senthilkumar and Mr. Muralidharan** from Skill vocation and innovation centre (SVIC), PMC TECH had delivered the session with live demo and hands on experiences for Aero, MCO, MECH and EEE students. On this session, they demonstrated the function of Yaskawa welding Robot installed in the SVIC and 3D printing an innovative technology for prototype and Product making.

5. Soft skills Training by Ms. Priya Senthil

We invited an inspiring Trainer, **Dr. Priya Senthil**, Trainer, S2S Personality Development Pvt., Ltd., to present perspectives on various aspects of life. She focused on topics of self development and Attitude. She also provided clarity on how good habits directly promote us as better humans. She added that a Negative thought attracts more and positive thoughts get distracted very soon. She gave four main principles ABCD for success .Her ABCD Strategy with Mythological Stories and examples have cheered up the students and charged with taking their education and career seriously, for their sake and their parents' sake.



Glimpses of Session by Ms. Priya Senthil

6. Role of Mathematics in Engineering

Mathematics contributes to the core of engineering and serves as a source of knowledge from which engineering students can draw from. Thus, engineering students must have an ability to apply mathematical knowledge and skills to problem solving and engineering design tasks. In this contest we planned a session of role of mathematics in engineering for our students. **Mr. Ruban**, Face academy and **Mr. Prabhu Manikandan**,

Maths Academy, delivered this session. They elaborated the students about mathematical concepts, develop mathematical thinking and improve their attitude towards learning. They motivated the students to learn mathematics with great confidence and apply effectively in Engineering..



7. Mental Well being.

The speaker **Dr.Catherine**, Physiotherapist, explained in detail about the growth and transformations during adolescence, nutritional requirement, concerns, issues of adolescence and the preventive measures to overcome. She elaborated in detail about energy, proteins and various nutrients requirement and their role in adolescent health. In her presentation,

she insisted that mental health includes our emotional, psychological, and social well-being. It affects how we think, feel, and act. It also helps determine how we handle stress, relate to others, and make healthy choices. She highlighted the importance of positive behavior therapy. she also talks about tension releasing exercise.



8. Routines to Improve health.

Dr. Raghul, General Physician and **Dr. Sindu** General Physician were invited to address the students on the importance of physical wellbeing routines to improve their health. Students stated that this session was very useful for them and added that they learnt about Healthy Habits Including Good Grooming. This health and hygiene session gave them the guidance on how to make sensible choices that would improve their healthy living and wellbeing as they start to get older. Dr.Sindu. emphasized on the need of regular exercise to avoid diseases like diabetes, irregular issues for girl child, hypertension and obesity.



9. Dance & Music

Students should be exposed to culture and art forms like painting, pottery, music, dance etc . **Mr. Dinesh**, Cripers Academy was invited for conducting short term dance coaching for students. Students enjoyed very much in dancing and relax themselves with great amount of joy.



Students Joyful moment on Dancing

10. Crash Course on Documentary film Making.



To kindle the interest of students in making short films we planned a session as crash course on documentary film making. **Mr. Dinesh Balaji**, growing film maker presented this session to our students in various field of film making like, story, screenplay, dialogue writing, songs, frame fixing and lighting. Students explored their talents and interest on this session very much.

11. Awareness on Department Club Activities.

Club is an organization of people with a common purpose or interest, who meet and take part in shared activities. **Dr. M .Suresh**, Associate Professor, Physics gave a brief introduction on the clubs functioning in Department of Science and Humanities such as Astronomy club, Debate Club, Math Club etc.,. He explained about the process followed in organizing the club and the activities done in these clubs through the incharge faculty members, how participating in club activities helps them in enhancing their skills career opportunities.



11. Proficiency level Test

In this session proficiency level test was conducted to assess the competency of students over language and Basic Mathematics. Questionnaire was prepared and assessed the students understanding level of the above subjects. This strategy helped the students to know their proficiency level and start planning to improve the same.

12. Mentors Address

Mentoring and connecting with faculty members is the most important part of this 2 week induction program. Hopefully, it would set up a healthy relationship between the students and the faculty. Eminent mentor were invited to provided valuable input as the departmental orientation to our first year students

The following were discussed during the Mentoring sessions.

1. Inspiration on Department
2. Curriculum
3. Skills Required
4. Supplementary / Value added courses
5. Job Prospectus
6. Targeted Companies
7. Professional excellence etc



Dr. B. Madhusudhanan Addressing CSE Students



Principal Address



Dr. Cyril Prasann Raj Addressing ECE & EEE Students

13. Department Visit

In this session students were introduced to the respective programs and its objectives. Faculty gave details regarding courses, laboratories. The students of various programs were addressed by their respective Head of the Department and senior faculty.

The presentations included details: Introduction to the program and program objectives

- Various opportunities in industry.
- Outline of the respective course in detail.
- Elective subjects and projects
- Departmental labs.

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14. NSS & YRC Objectives and Enrollment

YRC & NSS Coordinator shared their vision and objectives of the respective cells and to introduce all the major events organized by their cells in the Institute. They motivated the students to become the member of the cell by explaining the advantages of being in these cells. In general, it gave an insight to the students on the YRC & NSS activities conducted in our Institute throughout the year which will help them to improve their Social Service attitude.

15. Sports and Games

Games were meticulously planned and organized by the Physical education team comprising of **Mr. Anbalagan and Mrs.Selvarani**. The games/activities aimed at developing team building, communication, strategy development, problem solving, decision making, coordination, creative thinking etc. Students were actively involved and played energetically.



16. “Power to Flower” – Soft skill Training

POWER TO FLOWER - soft skill training Program was organized for I year B.E / B.Tech students from 1.12.2022 to 2.12.2022. The training was started with grand Inaugural function with Director sir and Principal Madam. The Chief guest Kalaimamani Marabin Mainthan Muthaiah handled the first session with inaugural note and encouraged students with many examples from his own life and inspired students to be a successful Engineer. He discussed the importance of Body mind coordination.



Further students were divided in 4 batches for two day training. The training curriculum was Transition management, Vision & Goal, Values and Virtues, Learning skills and Focus. The trainers were Mr. Shivakumar Palaniappan, Mr. Vivek, Mr. Ilanchezhian, Ms. Knagalakshmi and Ms. Akila. The training was ended with valedictory address by Kalaimamani Marabin Mainthan Muthaiah in the title of Being a passionate learner. During the valedictory, more students came forward and shared their feedback on this training and thank the trainer for fruitful information. Mr. M. Arul, AP- English delivered the vote of thanks.

17. Closing Session

All the Students of respective batches, were asked to share their feedback about the Induction Program and they were asked to submit their feedback report to their respective class mentors. Finally the Core Committee members of the Induction Program visited all the classrooms and concluded the Induction Program.

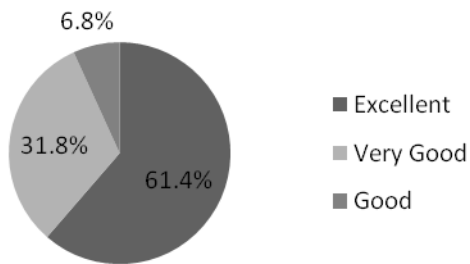
Abstract of Bridge course Curriculum

S.No	Name of the Program	Hours/ Batch	Name of the Resource Person
1.	Outbound Training	6	Mr. Saravanaperumal & Team Confedo Training Solutions and events, Coimbatore (5 days)
2	Special Address (Start your Journey to Success)	3	Marabin Mainthan Muthaiah & Team (2 Days)
	Motivation Training 1 (Power to Flower) 1. Emotional Intelligence 2. Breaking Habits 3. Discipline Techniques 4. create fear free environment	6	
	Motivation Speech 2 (Career Development) 1. Self Confidence 2..Developing Skills 3.Goal Setting 4.Personal Excellence.	3	
	Importance and Basics of Communication 1. LSRW Skills of Language Acquisition 2. Conversation techniques 3.English in real life situations (at the post office, bank, railway	6 3	1. Ms. Priya Senthil S2S Personality development Academy Pvt.Ltd., 2. Madhumita Giri Technical, Life Skill & Communication Trainer, Salem. (5 Days)

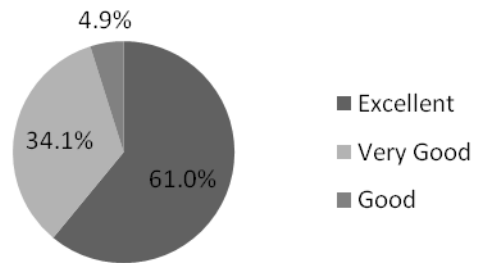
	station, customer care etc.) 4. Correction of incorrect sentences 5. Techniques of reading		3. Ms. Haritha Technical, life skill & Communication Trainer (5 Days) 4. Mrs. Priyanka, Training Department – PMC TECH
	6. Role of Mathematics in Engineering	3	1. Mr. Ruban Face Academy 2. Mr. Prabhu Manikandan Maths Academy (2 days)
3.	Dance & Music	3	Cripers Dance Academy, Tirupur (4 days)
	Crash course on Documentary Film Making with Photography	3	Mr. Dinesh Balaji & team Short film Maker Tirupur. (4 Days)
4	1. IOT Basics & Demo	3	1. Mr. Rajkumar Kalaimani, (ICT Academy) Technical Lead Infinite computer solutions, Chennai.
	2. Demo on Basic Electronic Kits & Sensors	3	Mr. M. E. Rajamanikam Trainer & Industrialist, Embedded Solution, Chennai (5 days)
	3. Cyber security an Overview (Simple Coding and Hacking knowledge to secure information)	3	Mr. Kumaravel (ICT Academy)
	4. Robotics and 3D Printing	3	Skills vocational and Innovation Centre PMC TECH, Hosur
5	Mental Well being (Psychological Approach)	3	1. Catherine Shanlini.R Physiotherapist, Fitness Consultant, Sports Rehabilitation Specialist, Salem (2 Days)

	Routines to improve Health	1.5	1. Dr. Rahul Ravindran, M.D., (General Medicine), IDCM, Consultant Physician. 2. Dr. Sindhu, M.S., OBG IDCM, Consultant Physician
6	1. Aspirations & family expectations, 2. Gratitude, Competition & cooperation 3. Competition and Excellence 4. Self and Body 5. Peer Pressure	3	1. Mr. Ilangoan, Psychologist & Corporate, Trainer, Hosur. (2 Days) 2. Mr. Kathiravan Orator, Erode (2 Days)
7	Department Orientation	-	1. Dr. B. Madhudsudhan, For CSE, IT, AIDS, CSBS 2. Dr. Cyril Prasanna Raj
8	Sport & Games (House Formation Competitions)	3	Mr. A. Anbazhagan, (Physical Director) Mrs. J. Selvarani (Physical Directress)
9	NSS & YRC Objectives & Enrollment	1.5	Mr. Thangamuthu, AP/CIVIL Mr. Arul, AP/English
10	Department Clubs Objectives and Enrollment	3	Dr. M. Suresh ASP - Physics Mr. Leo Michel Durai Raj, AP – Chemistry Dr. C. Gayathri, ASP – Maths Mr. Arul AP- English
11	Proficiency level Test	3	Dr. P. Selvi, ASP – Chemistry Mrs. Rathi, AP-English
Total Hours		66 Hrs	

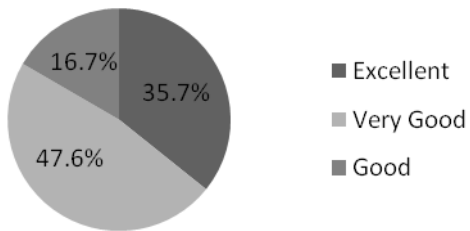
Feedback Abstract



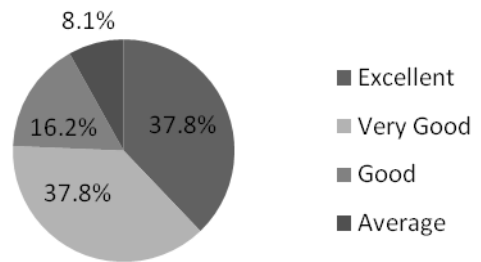
Power to Flower



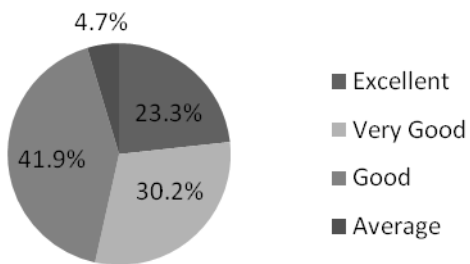
Outbound Training



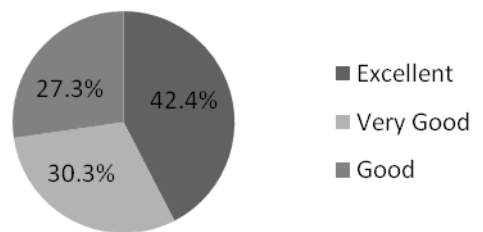
Express to Excel – Language Proficiency



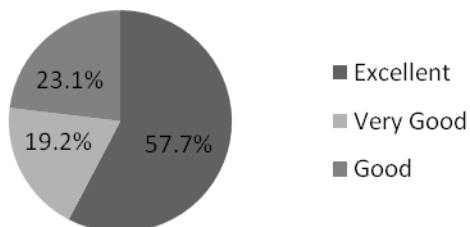
Role of Mathematics in Engineering



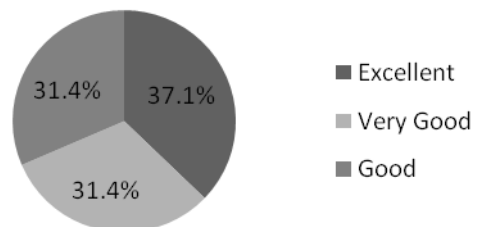
Crash Course on Documentary Film Making



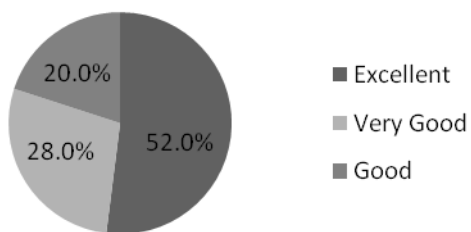
Introduction to IOT Basics



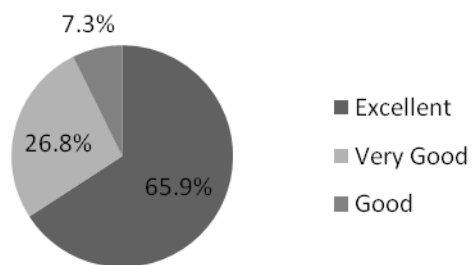
Demo on Electronics Kits



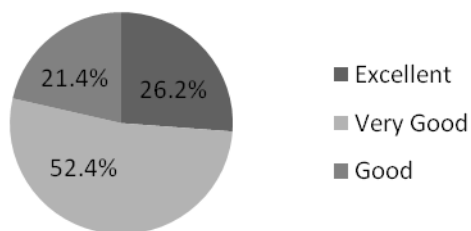
Cyber security an overview



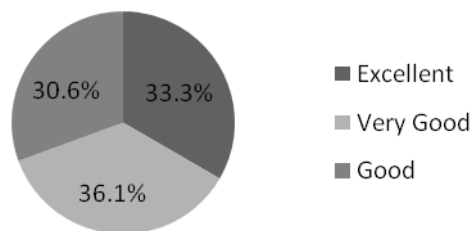
Robotics and 3D Printing



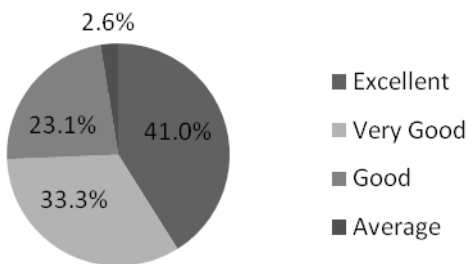
Soft Skills by Ms. Priya Senthil



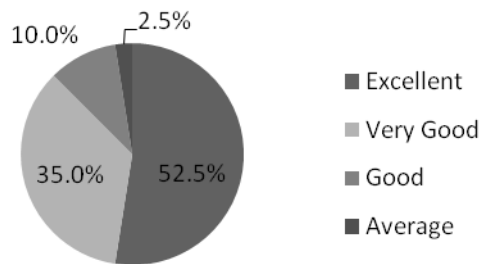
Universal Human Values



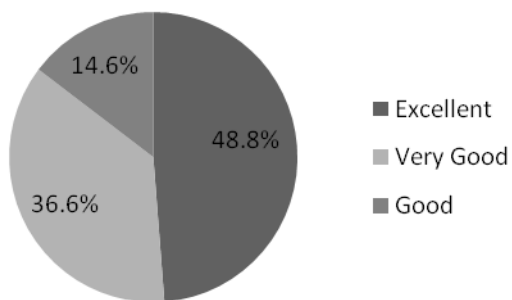
Mentor Address & Department Interaction



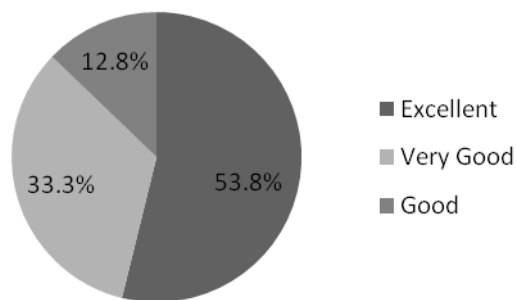
Mental Well Being



Health & Hygiene



Sports and Games



Dance & Music