NEHRU INSTITUTE OF TECHNOLOGY
(ISO 14001- 2004 Certified, Approved by AICTE & Affiliated to Anna University)
JAWAHAR GARDENS, KALIAPURAM, COIMBATORE–641105
www.nehruinstitute.com Ph.:+914222666655

Stakeholders Feedback Analysis Report

NEHRU INSTITUTE OF TECHNOLOGY
(ISO 14001- 2004 Certified, Approved by AICTE & Affiliated to Anna University)
JAWAHAR GARDENS, KALIAPURAM, COIMBATORE–641105
www.nehruinstitute.com Ph.:+914222666655
NEHRU GROUP OF INSTITUTIONS

Student Feedback on Curriculum – Feedback Analysis Report

S. No.	Questions	Strongly agree	Agree	Disagree	Strongly disagree	Total Weightage	Percentage	3-Scale Weightage
1	Whether Course objective is clear ?	95	128	8	4	784	83%	2.50
2	Whether Syllabus is carrier oriented?	101	124	8	2	794	84%	2.53
3	Whether the course was well Structured to achieve course outcomes?	90	130	12	3	777	83%	2.48
4	Do you feel that the content will help in your higher education or employment?	97	126	8	4	786	84%	2.51
5	Are the books prescribed as a text book/ Reference book in related to syllabus	98	121	13	3	784	83%	2.50
6	Whether syllabus is relevant to real word problems?	80	132	17	6	756	80%	2.41
7	Whether the syllabus is covered with industry standards?	95	118	15	7	771	82%	2.46
8	Is the text and Reference books prescribed in the syllabus is standard or not?	84	132	16	3	767	82%	2.45

NEHRU INSTITUTE OF TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

Faculty Feedback on Curriculum – Feedback Analysis Report

S. No.	Question	Strongly agree	Agree	Disagree	Strongly disagree	Total Weightage	Percentage	3-Scale Weightage
1	Are the objectives of the syllabus clearly indicated?	44	19	5	1	244	88%	2.65
2	Is the course content followed from corresponding reference books/materials?	31	33	4	1	232	84%	2.52
3	Is the syllabus designed to bridge the gap between Theory and Practical?	30	33	6	0	231	84%	2.51
4	Is timely completion of syllabus possible for the students of your class?	33	31	4	1	234	85%	2.54
5	Does the syllabus cover modern & advanced topics?	24	41	4	0	227	82%	2.47
6	Is the Curriculum and syllabus designed in a way to improve Employability opportunity?	27	37	5	0	229	83%	2.49
7	Is the depth of the course content adequate to have significant learning outcomes?	28	35	6	0	229	83%	2.49
8	Sufficient reference material and books are available for the topics mentioned in the syllabus?	31	33	4	1	232	84%	2.52

NEHRU INSTITUTE OF TECHNOLOGY CBE-641 105

22/2/24

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

Alumni Feedback on Curriculum – Feedback Analysis Report

S. No.	Questions	Strongly agree	Agree	Disagree	Strongly disagree	Total Weightage	Percentage	3-Scale Weightage
1	How do you rate relevance and sequences of the courses in relation to the program?	28	37	1	2	227	83%	2.50
2	How do you rate the competencies in relation to the course content?	30	32	4	2	226	83%	2.49
3	How do you rate the offering of the electives in relation to the advanced technology?	22	37	4	5	212	78%	2.34
4	How do you rate the experiments in terms of their relevance's to the real time application?	24	26	13	5	205	75%	2.26
5	How do you rate the courses that you have learnt in relation to your present job?	21	33	10	4	207	76%	2.28

NEHRU INSTITUTE OF TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

Employer Feedback on Curriculum – Feedback Analysis Report

S. No.	Questions	Strongly agree	Agree	Disagree	Strongly disagree	Total Weightage	Percentage	3-Scale Weightage
1	Whether the Curriculum is effective for the students in developing innovative thinking	0	5	4	0	23	64%	1.92
2	Is the curriculum helps the students to become an entrepreneurs?	0	7	1	1	24	67%	2.00
3	Is the Curriculum is relevant for employability?	2	4	3	0	26	72%	2.17
4	Is the syllabus compatible with the real world problems?	0	4	3	2	20	56%	1.67
5	Whether the syllabus build the students readily employable without training.	0	2	5	2	18	50%	1.50

NEHRU INSTITUTE OF TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

Action taken report on feedback

Action taken report for the analysis of feedback collection from students in curriculum during academic year 2020 – 21

No. of Responses	Threshold< 2.50		Questionnaires	Actions taken	Evidence
	Percentage	3-Scale Weightage			
235	83%	2.48	Whether the course was well Structured to achieve course outcomes?	All Faculty to teach content beyond the syllabus with current trends	Lesson plan samples
	80%	2.41	Whether syllabus is relevant to real word problems?	Entrepreneurship skills program in various domain	NewGen IDC sample
	82%	2.46	Whether the syllabus is covered with industry standards?	A letter of representation to Anna university Chennai shall be initiated to enhance the syllabus to meet current industrial trends	Letter sent to Anna University regarding gaps in Curriculum
	82%	2.45	Is the text and Reference books prescribed in the syllabus standard or not?	Students are advised to attend Swayam/NPTEL/IIT Spoken tutorial online courses to upgradation of skills.	IIT Spoken Tutorial online course certificates

NEHRU INSTITUTE OF TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

Action taken report for the analysis of feedback collection from faculty in curriculum during academic year 2020 - 21

No. of Responses	Threshold<2.50		Questionnaires	Actions taken	Evidence
	Percentage	3-Scale Weightage			
69	82%	2.47	Does the syllabus cover modern & advanced topics?	Content beyond syllabus can be included	Lesson plan samples
	83%	2.49	Is the Curriculum and syllabus designed in a way to improve Employability opportunity?	Students should be encouraged to do internship	sample certificates of internship & VAC
	83%	2.49	Is the depth of the course content adequate to have significant learning outcomes?	To fulfil the gap in the syllabus and attaining all course outcomes , all faculty members should teach content beyond the syllabus with current innovative trends and Value Added Courses	Lesson plan samples, VAC certificates samples

NEHRU INSTITUTE OF TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

Action taken report for the analysis of feedback collection from alumnus in curriculum during academic year 2020 – 21

No. of Responses	Threshold<2.50		Questionnaires	Actions taken	Evidence
	Percentage	3-Scale Weightage			
68	83%	2.49	How do you rate the competencies in relation to the course content?	Students are advised to undergo inplant training, Internship, field visits to correlate the syllabus and solve real world problems and to make them aware about the industry standards in various domains.	sample certificates of internship
	78%	2.34	How do you rate the offering of the electives in relation to the advanced technology?	Special trainings are arranged to make students familiar with latest technology.	Webinars, Soft Skills training
	75%	2.26	How do you rate the experiments in terms of their relevance's to the real time application?	Students are motivated in research based project.	TNSCST , NewGen IEDC sample projects
	76%	2.28	How do you rate the courses that you have learnt in relation to your present job?	Letter of representation to Anna University-Chennai be initiated to express inadequacy in syllabus to meet current industrial requirements and include real world problems in the syllabus in the next regulation.	Letter sent to Anna University regarding gaps in Curriculum

NEHRU INSTITUTE OF TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

Action taken report for the analysis of feedback collection from employer in curriculum during academic year 2020 – 21

No. of Responses	Threshold<2.50		Questionnaires	Actions taken	Evidence
	Percentage	3-Scale Weightage			
9	64%	1.92	Whether the Curriculum is effective for the students in developing innovative thinking	Students are encouraged to think for innovative project ideas.	TNSCST , NewGen IEDC sample projects
	67%	2.00	Is the curriculum helps the students to become an entrepreneurs?	Students can be encouraged to do NewGen Projects	TNSCST , sample projects, Smart Hackathon Participation details
	72%	2.17	Is the Curriculum is relevant for employability?	Startup skills training shall be provided	Webinars, Soft Skills training
	56%	1.67	Is the syllabus compatible with the real world problems?	Students should be encouraged to attend value-added courses	VAC certificates samples
	50%	1.50	Whether the syllabus build the students readily employable without training.	Students are advised to go inplant training, internships	sample certificates of internship

NEHRU INSTITUTE OF TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

Evidences for Action taken report on feedback

Content Beyond Syllabus

Nehru Institute of Technology
Coimbatore-641 105

Lesson Plan

Unit No	Topic	Reference	Period
UNIT I INTRODUCTION	Assumptions to be made in designing a vehicle,	T1	1
	Range of values for Gross Vehicle Weight,	T1	1
	Frontal Area	T1	1
	maximum speed	T1	1
	maximum acceleration	T1	1
	gradability in different gears	T1	1
	gradability in different gears	T1	1
	Basics of Automobile Design.	T1	1
	Basics of Automobile Design.	T1	1
UNIT II RESISTANCE TO VEHICLE MOTION	Calculation for Air and Rolling Resistances at various vehicle speeds	T1	1
	Tabulation for Air and Rolling Resistances at various vehicle speeds	T1	1
	Plotting of Curves for Air and Rolling Resistances at various vehicle speeds	T1	1
	Calculation and Plotting of Driving force	T1	1
	Calculation and Plotting of Driving force	T1	1
	Power requirement for different loads and acceleration	T1	1
	Power requirement for different loads and acceleration	T1	1
	Maximum Power calculation	T1	1
	Maximum Power calculation	T1	1
UNIT III PERFORMANCE CURVES – I	Calculation, Tabulation and Plotting of Torque and Mechanical Efficiency for different vehicle speeds	T1	1
	Calculation, Tabulation and Plotting of Torque and Mechanical Efficiency for different vehicle speeds	T1	1
	Calculation, Tabulation and Plotting of Torque and Mechanical Efficiency for different vehicle speeds	T1	1
	Interpolation of Pressure – Volume diagram	T1	1
	Calculation of frictional Mean Effective Pressure	T1	1
	Calculation of frictional Mean Effective Pressure	T1	1
	Calculation of Engine Cubic Capacity	T1	1
	Calculation of Engine Cubic Capacity	T1	1
	Calculation of Bore and Stroke Length	T1	1

NEHRU INSTITUTE OF TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

UNIT IV PERFORMANCE CURVES – II	Connecting rod length to Crank Radius Ratio	T1	1
	Plotting of Piston Velocity and Acceleration against Crank Angle	T1	1
	Plotting of Piston Velocity and Acceleration against Crank Angle	T1	1
	Plotting Gas force, inertia force and Resultant force against Crank Angle	T1	1
	Plotting Gas force, inertia force and Resultant force against Crank Angle	T1	1
	Plotting Gas force, inertia force and Resultant force against Crank Angle	T1	1
	Turning Moment and Side Thrust against Crank Angle.	T1	1
	Turning Moment and Side Thrust against Crank Angle.	T1	1
	Turning Moment and Side Thrust against Crank Angle.	T1	1
UNIT V GEAR RATIOS	Determination of Gear Ratios	T1	1
	Determination of Gear Ratios	T1	1
	Determination of Gear Ratios	T1	1
	Acceleration and Gradability,	T1	1
	Acceleration and Gradability,	T1	1
	Acceleration and Gradability,	T1	1
	Typical Problems on Vehicle performance	T1	1
	Typical Problems on Vehicle performance	T1	1
	Typical Problems on Vehicle performance	T1	1

Topics beyond the Curriculum / Guest lecture(s) / Industry / Laboratory Visit Proposed		**Period**
Topics beyond curriculum	Crash Test	2
Industry Visit	Visits to Automobile Designing Industries	-
Total Periods required for the course		47

NEHRU INSTITUTE OF TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

AT 6503 VEHICLE DESIG AND DATA CHARACTERISTICS

Content beyond Syllabus Notes

Crash Test

The National Highway Traffic Safety Administration (NHTSA) conducts two types of crash tests as part of the New Car Assessment Program.

35-mph frontal impact - At 35 mph (56 kph), the car runs straight into a solid concrete barrier. This is equivalent to a car moving at 35 mph hitting another car of comparable weight moving at 35 mph.

35-mph side impact - A 3,015-pound (1,368-kg) sled with a deformable "bumper" runs into the side of the test vehicle. The sled's tires are angled. The test simulates a car that is crossing an intersection being sideswiped by a car running a red light. The sled actually moves at 38.5 mph, but when you do the math, it is equivalent to a 35-mph side impact because of the way the wheels on the sled are angled.

Crash Test Paint

Before the crash-test dummies are placed in the vehicle, researchers apply paint to them. Different colors of paint are applied to the parts of the dummies' bodies most likely to hit during a crash. The dummy's knees, face and areas of the skull are each painted with a different color. In the following photo, you can see that the blue paint from the dummy's face is smeared on the airbag and that his left knee (painted red) hit the steering column.

Now, let's take a look at a 35-mph frontal-impact test.

Vehicle Setup

The dummies have been placed in the car and are in position. All of the instrumentation on the car and dummies has been hooked up and checked. Ballast is added to the car so that the crash-test vehicle's weight -- and the distribution of that weight -- is equal to that of a fully loaded vehicle. A speed sensor has been mounted to the car and positioned so that it will pass through a pickup just as the car hits the barrier.

There are 15 high-speed cameras, including several under the car pointed upward. They shoot around 1,000 frames per second. Next, the car is backed away from the barrier and prepared to crash. A pulley, mounted in a track, pulls the car down the runway. The car hits the barrier at 35 mph. It only takes about 0.1 seconds from the time the car hits the barrier until it stops.

After the Crash

The front of the van is crushed up to the front wheels, which are pushed back. In this crash, the van actually got 23 inches (58 cm) shorter!

NEHRU INSTITUTE O. TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

Intrepid Series Hybrid

The Dodge Intrepid ESX is an advanced series hybrid that uses what might be considered conventional technology - although there is nothing at all conventional about the vehicle. What I mean by the term "conventional" is that the turbodiesel conversion system (genset), the battery storage system, and the Zytek wheel motors are based on relatively proven and familiar technologies. Nothing has to be invented in order to build the car. If we had to put a hybrid into production tomorrow, these are the types of subsystems it would have.

When we talk about making EVs smaller and lighter, it's interesting to note that the Zytek wheel motors in the Intrepid are only 200 mm in diameter, 175 mm long and can deliver 75 kW at 15,000 rpm - in a package that weighs just 13 kg (29 lbs) (without the reduction gearbox). In contrast, the turbodiesel genset is not very small and light - but it is about as efficient as possible with proven hardware (~40%).

The Intrepid was Chrysler's first attempt to exceed 80 mpg without losing space or acceleration. The total project cost $3 million to make, and Chrysler estimated that, if produced, the ESX would cost $80,000. Most of the cost was from the exotic materials and electronic components.

The engine was derived from a series hybrid-drive propulsion system meant to use 40% of gasoline's potential energy (the typical car only uses 15% of gasoline's potential energy). The car was powered by three engines. The first was a VM Motori S.p.A. 1.8-liter three-cylinder, turbocharged diesel, whose energy was diverted to an 180-pound, 300-volt battery and two oil-cooled electric wheel motors. The electric motors were also part of the regenerative braking system, where energy normally lost through the disc brakes recharged the motors.

The rear suspension, where the two 100-hp electric motors were located, was the semi-trailing arm type with coil-strut shocks. Panels were made of ultrathin-gauge aluminum, cutting the weight by 600 lb.. The controls for parking, reverse, and forward were located on the windshield wiper knob. The styling was incorporated in the 1998 Intrepid production car.

Evan Boberg wrote that the Intrepid ESX was actually a rush job, set up as a show car late in the game; they decided to use a series hybrid because it would be faster to set up, though a real production car would not have that architecture. "[We were] building what we knew was obsolete hardware ... We made up impressive fuel economy numbers (lies) that were

slightly based on our simulation." Press rides were made with the car on full-battery, he wrote; "the controls to charge the batteries had not yet been developed," and cited real fuel mileage, based on simulations, at around 30 mpg. Through the ESX development, though, Mr. Boberg said that the company was indeed working on a real high-efficiency vehicle program, and "were getting close to the government's goal of 80 mpg." This would be the ESX-3.

Specs: Dodge Intrepid ESX hybrid-electric car, 1997

- *Vehicle: rear-engine, rear wheel drive, hybrid propulsion, 5 passenger, 4-door sedan*
- *Engine types: I-3 SOHC diesel, 2 valves/cylinder, with 2 electric wheel motors*
- *Regenerative braking (brakes acted as generators to recapture energy and converted it to electricity)*
- *Power: 75 bhp diesel + 2 x 100 hp electric motors = 275 bhp*
- *Torque: 135 lb-ft @ 2400 rpm*
- *Fully electric power steering*
- *Acceleration: 0-60 in 15 seconds (this was decreased in 1998 to around 9 seconds)*
- *Transmission: none*
- *Wheelbase: 113.0 in*
- *600 Bolder Technologies spiral-wound lead-acid batteries producing 300 volts DC (180 lb), stored under the hood*
- *Length: 195.0 in*
- *Curb weight: 2880 lb*
- *Estimated 55 mpg*
- *Low emissions - below Tier 1*

Letter to Anna University

Dr.K.P.Arul Shri, M.E., Ph.D.,
Principal

12-08-2020

To

The Director
Centre for Academic Courses
Anna University,
Chennai

Respected Sir/Madam,

Sub: Suggestion for Curriculum updation, Regulations 2017 – Reg.

As per the feedback received from our stakeholders like Students,Faculty, Alumni and Employers, the following are the gaps identified in the curriculum,

Sl. No.	Department	Remarks
1	Aeronautical	Practical aspects of Robotics can be incorporated in curriculum
2	Agriculture	Soil Less Farming is an emerging technology which is not covered in curriculum
3	Civil	Practical aspects of Revit can be incorporated in curriculum
4	CSE	Practical aspects of Data Science and Artificial Intelligence can be incorporated in curriculum
5	Food Technology	Practical aspects of 3D food printer can be included in curriculum

Hence, we request you kindly to consider the same during the next new Regulations.

NEHRU INSTITUTE O. TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

NEHRU INSTITUTE O. TECHNOLOGY CBE-641 105

PRINCIPAL
PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

NewGen IEDC Projects

NEHRU GROUP OF INSTITUTIONS
TAMILNADU • KERALA
www.nehrucolleges.com

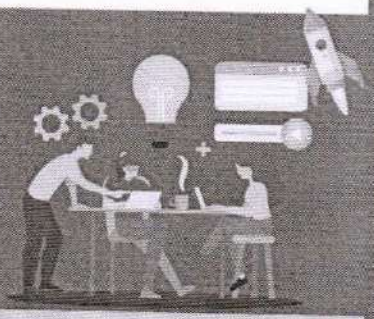
NGI NewGen IEDC
Transform Idea into Innovation

NEHRU GROUP OF INSTITUTIONS
NEW GENERATION INNOVATION AND ENTREPRENEURSHIP DEVELOPMENT CENTRE (NGI NewGen IEDC)

(Funded and Supported by NSTEDB, Department of Science and Technology, Govt. of India)
Dr. A.P.J. Abdul Kalam Block, Thirumalayampalayam, Coimbatore 641 105, Tamil Nadu

Do you have an **Innovative Idea?** if yes,

Nehru Group of Institutions New Generation Innovation and Entrepreneurship Development Centre (NGI – New Gen IEDC) invites Innovative Ideas from young aspiring students for the Academic year 2021 – 2022. Start-up Grant-in-aid will be sanctioned to the students for developing their Innovative Idea into Prototype / Product.



Start your own Business during College Days with Government Funding

Apply at
www.nginewgeniedc.com

Apply on or before
30th July, 2021

Eligibility:

- Students from First to Final Year pursuing Engineering, Biotechnology, Microbiology & Other Science & Technology Courses at Nehru Group of Institutions are Eligible.
- Out of Box Thinking, Technology driven Innovation & Creativity will be supported.
- Preference will be given to the Science and Technology driven ideas having multiplier impact on the native economy.

Thrust Areas:

1. Internet of Things & Smart Communication
2. Agriculture & Rural Development
3. Food Technology
4. Waste Management
5. Renewable Energy
6. Healthcare & Bio Medical
7. Robotics & Drones
8. Clean Water
9. Security & Surveillance
10. Manufacturing

SUPPORT SERVICES

Innovation Factory
- Coworking Space & Cubicles
- Workstation Desktop
- 24 Mbps Internet Facilities
- Printing & Copying Facilities
- 24×7 Access

Idea Café
- Flash Forge Creator 3 - 3D Printer
- Rich Pool of Industry Practitioner
- Advisors, Consultants & Mentors
- Brain Games
- Coffee Vending Machine

Business Support
- Business Plan Preparation
- Company Registration
- Technology Transfer & Commercialisation
- IPR & Legal Services

Project Coordinator :
Dr. T. JAYAPRAKASH
Asso. Professor of Physics,
Dr. A. P. J. Abdul Kalam Block, NGI- New Gen IEDC
Ph: +91 9843121361 / +91 9003357233

Apply online through
E-mail :
coordinatornewgeniedc@nehrucolleges.com

NEHRU INSTITUTE OF TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

Nehru Group of Institutions

New Generation Innovation and Entrepreneurship Development Centre

NGI NewGen IEDC

Supported by NSTEDB, Department of Science and Technology, Govt. of India

Pre Application Questionnaire

I. GENERAL INFORMATION

1. Name of the Applicant:

Sl.no	Name of the student	Year & Branch
1.	Ashik K V	3rd year Computer Science and Engineering
2.	Athuyla N	3rd year Computer Science and Engineering
3.	Harindranath G	3rd year Computer Science and Engineering
4.	Praveen G V	3rd year Computer Science and Engineering

2. Company Name (Existing/Proposed):

IOTECH

3. Title of the Project:

IOT BASED SMART WATER MONITORING SYSTEM

NEHRU INSTITUTE OF TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

4. Status of Company Registration (if registered, please give registration number):

IDEA DEVELOPED (not yet registered)

5. Student details: Individual / Team (Including Applicant's Name):

S.no	Name, Residential Address Email & Mobile Number	Degree	College	Year	Adhar Number
1.	Ashik K V SankaranKolli, Padanthorai (PO), Gudalur, 643211. MOB:6383660685	B.E.	Nehru Institute of Technology	2018-2022	350659204152
2.	Athuyla N Nadavathina(H), Cheruvetta, Parambil (PO),Kozhikode,673012 MOB:6282890213	B.E.	Nehru Institute of Technology	2018-2022	244711788376
3.	Harindranath G Jallimedu,Thirumalayampalayam, Coimbatore,641105 MOB:9600311378	B.E.	Nehru Institute of Technology	2018-2022	500303962921
4.	Praveen G V Senthur Garden,Pogalur, Coimbatore 641697 MOB:6382214911	B.E.	Nehru Institute of Technology	2018-2022	671283594905

6. Details of the Mentor:

Name	Nithya L
Designation	Assistant Professor
College	Nehru Institute of Technology
Mobile	8825878491
Email ID	nithi.be@gmail.com

NEHRU INSTITUTE OF TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

II. PROJECT INFORMATION

1) Thrust Area of Proposed Idea - Tick:

[✔] Internet of Things & Smart Communication	[ ] Agriculture & Rural Development
[ ] Food Technology	[ ] Waste Management
[ ] Renewable Energy	[ ] Healthcare & Biomedical
[ ] Robotics & Drones	[ ] Clean Water
[ ] Security & Surveillance	[ ] Manufacturing

2) **Idea / Project Description**

• Smart Water Monitoring System(SWMS) is a cost effective and efficient system designed to monitor and manage quality and quantity of drinking water which makes use of Internet of Things (IoT) technology.

• The proposed system consists of several sensors to monitor various parameters of water such as Water level, pH, Oxygen level, Turbidity ,Temperature , Humidity and... etc.

• This Smart Water Monitoring System (SWMS) is connected to internet using WiFi ,so that it can be controlled by its user from anywhere in the world using mobile application or web application, each and every updates are notified to the user using the app.

NEHRU INSTITUTE OF TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

3) **Technology adopted:**

• Our product will bring a dramatic change in this field by making it easy to know the quality of the water they use and also it helps and motivates people to manage their water system efficiently.

• Smart Water Monitoring System(SWMS) not only helps them to make huge savings in their water bills by providing usage and economic statistics in real time and by providing better suggestions but also reminds every customer about their social responsibility to save water.

4) **Innovation:**

Smart Water Monitoring System(SWMS) is a cost effective and efficient system designed to monitor and manage quality and quantity of drinking water which makes use of Internet of Things (IoT) technology.

5) **Scalability:**

Water Quality Monitoring Market was valued at USD 4.50 Billion in 2019 and is projected to reach USD 7.54 Billion by 2027, growing at a CAGR of 7.2% from 2020 to 2027.

6) **Market / Commercialization potential:**

NEHRU INSTITUTE O. TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

The product can be introduced to the market using Televised ads or Newspaper ads. The product can be listed in online e-commerce websites like Amazon,Flipkart etc..

7) Current status of the Product/Prototype

a) Idea Stage	✔	**b) Feasibility Study**	
c) Prototype Under Development		**d) prototype Developed**	
e) Testing and validation		**f) Technology commercialization**	
g) Market Research		**h) Others**	

8) Provide Action Plan / Methodology & Estimated Development Time of the Product / Project:

Stages	Action Plan / Methodology	Time Schedule (Days / Month)
1.	Collections of journals and articles	First 3 days of month 1
	Review and consolidation of articles and preparation of the quotation	From day-4 to day-10 of month 1
	Making a 3D sketch of the product in order to manufacture the Dual-axis Floating Solar Panel Tracking system	From day-11 to day-30 of month 1
	Submission of quotation to various companies and receiving a quotation from them and checking the feasibility	From month 2
	Ordering the components from the company	From month 3
2.	Implementation of the project	From month 4

NEHRU INSTITUTE OF TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

3.	Testing and working of final alternation of the project	From month 4
4.	Prototyping	From month 5
5.	Report submission	From month 6
6.	Applying for patent	

9) Give a sketch either 3D Image or Animated Video of your prototype (Attach Separately):

Document attached

10) Does your product/ service has an IP already generated? If not, is there a potential of the idea for IP creation?

No

III. RESOURCES

1) What resources are required for producing your Product?

Arduino,Temperature and Humidity Sensor, Infrared Sensor, Photoresistor, Ultrasonic Distance Sensor, Knock Sensor, Alcohol Gas Sensor, Water Sensor, Infrared Motion Sensor, Pressure Sensor, Water Flow Sensor ,Methane CH4 Gas Sensor, 2.4GHz Wireless Transceiver in Antistatic Foam, Color Sensor, Adafruit Digital Light / Luminosity / Lux Sensor, Liquid Water Level Sensor Float Switch, Adafruit Laser Break Beam Sensor.

NEHRU INSTITUTE OF TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

2) **Available Infrastructures at your College for the product development:**

Computer Lab
Android studio software
Electrical lab
Mechanical lab

3) **Name of the other Equipments / Instruments required for the development of the product, other than at your College?**

NIL

4) **Have you conducted any survey relative to your product/ service? If yes, please attach a copy. (Documentary evidences would be appreciated)**

No

5) **Do you have a Business Plan? If yes, please attach a copy. (Download Template from Website)**

No

IV. COMMERCIAL VIABILITY

1) **Demand of the product:**

NEHRU INSTITUTE OF TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

Owing to the high proliferation of internet and smart devices, the demand for IOT enabled products are expected to gain traction. As our product is connected through internet and user are empowered to control it from anywhere in the world using mobile and web application.It is expected to have high potential scope

2) Social Benefits:

• Our product will bring a dramatic change in this field by making it easy to know
the quality of the water they use and also it helps and motivates people to manage their water system efficiently.

• Smart Water Monitoring System(SWMS) not only helps them to make huge savings in
their water bills by providing usage and economic statistics in real time and by providing better suggestions but also reminds every customer about their social responsibility to save water.

3) What are the regulatory standards surrounding the product and its use?

BIS has set specifications in its IS–10500 standards for drinking water. The revised edition of IS 10500: 2012 standard shall be followed in Uniform Drinking Water Quality Monitoring protocol.

4) Can you think of any Major risk attached to your business? How do you plan to overcome that?

There are no major risk

NEHRU INSTITUTE OF TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

V. FINANCIAL ASSESSMENT

1) Cost of the Product:

1.Basic model- 14999/-INR
2.Pro model- 19999/-INR
3.Premium-29999/-INR

A. Cost of Raw Material:

S.NO	NAME	DESCRIPTION	COST	QUANTITY
1	Sensors and peripherals		30,000	
2	Arduino UNO		1000	
3	Wireless Transceiver		1000	
4	Float switch		2000	
5	Water Tank		5,400	
6	360 camera		10000	
7	Frame and body		5000	
8	Network devices		25000	
9	Alarm devices		1000	
10	Wiring and soldering		5000	
11	Other devices		35000	

NEHRU INSTITUTE OF TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

B. Other Requirements:

Estimated budget:

1,35,000 /-INR

VI.MARKETING

1) What is your targeted market and why?

- SWMS can be installed in various types of water storage system ranging from small to very large water tanks.
- Homes,Office buildings,Schools,Colleges,etc… having water tanks need SWMS to detect the quality of water.
- As SWMS is cost effective and efficient and easy to use system, people using any kind of water tanks can be attracted towards our products.

2) How will the product be introduced in the market?

The product can be introduced to the market using Televised ads or Newspaper ads. The product can be listed in online e-commerce websites like Amazon,Flipkart etc..

3) Who do you consider as your major competitors and why?

NEHRU INSTITUTE OF TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105

Various Foreign based companies such as

1 PHILIPS NETHERLAND

2 THERMO FISHER USA

3 HYGIENA USA are the major players in this field,As all these companies have a well established brand our product will have to undergo heavy competition

NEHRU INSTITUTE O. TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

VII. ATTACHMENTS WITH THIS APPLICATION

Name of the document (Tick below, if attached)	Total number of pages = ...
CVs of the Team	✔
Profile of Mentor	✔
Business Plan	
Surveys	
Sketch of Prototype (3D Image/ Animated Video)	✔
Self-Attested ID Proof (Aadhar Card -photocopy)	✔

VIII. DECLARATION

I / We hereby declare that the above given information in the application are true and best to my / our knowledge. I / We further declare that the project will be completed within One Year with my / our presence throughout the product development and the Final Product will be submitted to NGI NewGen IEDC, Supported by Government of India.

Name of Team Member	Signature
Ashik K V	*Ashik K V*
Athuyla N	*Athuyla N*
Harindranath G	*Harindranath G*
Praveen G V	*Praveen G V*

NEHRU INSTITUTE OF TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

IIT Spoken Tutorial
Online Course Certificates

Spoken Tutorial
Project at
IIT Bombay

Certificate of Participation

This is to certify that **ASHIK K V** participated in the **Blender** training organized at **Nehru Institute of Technology** in **July 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Blender** were covered in the training.

October 11th 2020

NEHRU INSTITUTE OF TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105

Prof. Kannan M Moudgalya
IIT Bombay

Spoken Tutorial is a project at IIT Bombay, started with funding from the National Mission on Education through ICT, Ministry of Education (previously MHRD), Govt. of India

Spoken Tutorial
Project at
IIT Bombay

Certificate of Participation

This is to certify that **ATHULYA N** participated in the **Blender** training organized at **Nehru Institute of Technology** in **July 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Blender** were covered in the training.

October 11th 2020

NEHRU INSTITUTE O. TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
Coimbatore 641 105.

Prof. Kannan M Moudgalya
IIT Bombay

Spoken Tutorial is a project at IIT Bombay, started with funding from the National Mission on Education through ICT, Ministry of Education (previously MHRD), Govt. of India

Spoken Tutorial
Project at
IIT Bombay

Certificate of Participation

This is to certify that **GUNASEKAR M** participated in the **Blender** training organized at **Nehru Institute of Technology** in **July 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Blender** were covered in the training.

October 11th 2020

NEHRU INSTITUTE O. TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

Prof. Kannan M Moudgalya
IIT Bombay

Spoken Tutorial is a project at IIT Bombay, started with funding from the National Mission on Education through ICT, Ministry of Education (previously MHRD), Govt. of India

Internship Certificates

IA Reg No: 147/15, GSTIN: 32BTTPB2731C1Z8

Jet Aerospace
Aviation Research Center

MSME R&D Incubation Center

ISRO iirs IIRS Outreach Programme Center

Accredited by Aeronautical Sector Skill Council | IAI & ISO 9001:2015, UASL Certified Organization | Training Provider-Ministry of Skill Development & Entrepreneurship | Ministry of MSME Aerospace R&D Center | NSIC | In-house R&D Unit – Aeronautical Sector Skill Council Government of Kerala Aerospace Trade Organization

Date: 22/09/2021

TO WHOM SO EVER,IT MAY CONCERN

This is to certify that **Ms. ASHNAMARIA BIJU of B.E. Aeronautical Engineering of Nehru Institute of Technology, Coimbatore** has successfully completed her Unmanned Aerial Vehicles & Testing Internship Training for duration of ten days from 13/09/2021 to 22/09/2021 at Jet Aerospace Aviation Research Centre, Palakkad, Kerala. During this period her conduct was **GOOD.**

We appreciate the participation and wish her all success in future for her active participation. During this Internship she had been working under the guidance of

Dr.Balakannan.J
Managing Director – Jet Aerospace
Project Advisor & Scientist – UTM's

International Ref No: IAO-JAARC-2021/22-538
This is Internationally Accredited Certificate *

NEHRU INSTITUTE OF TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

Authorized Signature

Chairman | Secretary | Managing Director

Skill India

+91-8883276477
+91-9809812378
Nera KTC, Kanjikode Industrial Area
Palakkad 678 623, Kerala, India
www.jetaero.in
info.jetaerospace@gmail.com

Jet Aerospace
Aviation Research Center

MSME R&D Incubation Center

iirs R&D Outreach Programme Center

Accredited by Aeronautical Sector Skill Council | IAI & ISO 9001:2015, UASL Certified Organization | Training Provider-Ministry of Skill Development & Entrepreneurship | Ministry of MSME Aerospace R&D Center | NSIC | In-house R&D Unit – Aeronautical Sector Skill Council | Government of Kerala Aerospace Trade Organization

Date: 22/09/2021

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **Ms. V S DURGALEKSHMI** of **B.E. Aeronautical Engineering** of **Nehru Institute of Technology, Coimbatore** has successfully completed her Unmanned Aerial Vehicles & Testing Internship for duration of ten days from 13/09/2021 to 22/09/2021 at Jet Aerospace Aviation Research Centre, Palakkad, Kerala. During this period her conduct was **GOOD.**

We appreciate the participation and wish her all success in future for her active participation. During this Internship she had been working under the guidance of

Dr.Balakannan.J
Managing Director – Jet Aerospace
Project Advisor & Scientist – UTM's

International Ref No: IAO-JAARC-2021/22-537
This is Internationally Accredited Certificate •

NEHRU INSTITUTE OF TECHNOLOGY CBE-641 105

Jet Aerospace www.jetaero.in

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

Authorized Signature

Chairman | Secretary | Managing Director

Skill India

NSK

11th November 2020
Kancheepuram

TO WHOMSOEVER IT MAY CONCERN

We wish to inform you that, Mr. Sanjay C, Register Number 721019108016, has successfully completed his internship with our organisation from 21-Sep-2020 to 09-Nov-2020.

During this period of internship he has shown great enthusiasm in understanding the functioning of the Manufacturing Department and its functions.

We wish him all success in his future endeavours!

For NSK Bearings India Pvt. Ltd.,

Sivakumar V

DGM – HR & General Affairs

NSK Bearings India Private Limited (Formerly NSK India Sales Company Private Limited)
Registered Office: TVH Beliciaa Towers, 2nd Floor, Block 1, No .71/1, MRC Nagar Main Road, MRC Nagar, Chennai – 600028, India.
Works: Plot No.A2, SIPCOT Oragadam Growth Centre, Mathur Village, Sriperumbudur Taluk, Kancheepuram District, Tamilnadu – 602105 India
(CIN No. U29130TN2007PTC064307 / PAN AACCN5663R / GST No.: 33AACCN5663R1ZW) Web: www.nsk.com

NEHRU INSTITUTE OF TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

NSK

11th November 2020
Kancheepuram

TO WHOMSOEVER IT MAY CONCERN

We wish to inform you that, Mr. Kapil Kirthik T, Register Number 721019108007, has successfully completed his internship with our organisation from 21-Sep-2020 to 09-Nov-2020.

During this period of internship he has shown great enthusiasm in understanding the functioning of the Manufacturing Department and its functions.

We wish him all success in his future endeavours!

For NSK Bearings India Pvt. Ltd.,

Sivakumar V

DGM – HR & General Affairs

NSK Bearings India Private Limited (Formerly NSK India Sales Company Private Limited)
Registered Office: TVH Beliciaa Towers, 2nd Floor, Block 1, No .71/1, MRC Nagar Main Road, MRC Nagar, Chennai – 600028, India.
Works: Plot No.A2, SIPCOT Oragadam Growth Centre, Mathur Village, Sriperumbudur Taluk, Kancheepuram District, Tamilnadu – 602105 India
(CIN No. U29130TN2007PTC064307 / PAN AACCN5663R / GST No.: 33AACCN5663R1ZW) Web: www.nsk.com

NEHRU INSTITUTE O. TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

Bhaggyam

Bhaggyam Developers
Ground Floor, No. 2 Sarangapani st,
T.Nagar, Chennai-600 017
PH : 044 28344770 / 2834 4730
E :general.developers@bhaggyam.com
E :bhaggyam.developers@gmail.com

28-10-2020

TO WHOMSOVER IT MAY CONCERN

This is to certify that **Ms.SANKARI. MN, D/O-Mr.Nagaiyasamy,** a student of Civil Engineering department from **NEHRU INSTITUTE OF TECHNOLOGY, COIMBATORE** has successfully completed 15 days (14.10.2020 to 28.10.2020) internship program at this **BHAGGYAM DEVELOPERS**, Partner : V Ramaswami, No. 2 , Sarangapani st, T Nagar, Chennai – 600 017.

During the period of her internship program with us she was found her sincere, hardworking, technically sound and result oriented.

We wish her ever success in life.

For Bhaggyam Developers

V.Ramaswami
(Partner)

BHAGGYAM DEVELOPERS T. NAGAR CHENNAI 600 017.

NEHRU INSTITUTE O. TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

Tin No : 33496391670

ACCENT TECHNO SOFT
Quality Matters...

An ISO 9001:2015 Certified

5.01.2021
Coimbatore

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms.SIVARANI.T (Reg No:721017104022) IV BE (CSE)** Student of **Nehru Institute of Technology, Coimbatore** had Successfully completed his Internship on **"Python With Artificial Intelligence"** in our esteemed organization from **1st December 2020 to 31th December 2020.**

Her performance and conduct were found to be very good.

During this period she was sincere and regular in attending all the phase of Intern Program.

For Accent Techno Soft

Authorized Signatory

#203, Nehru Street, Ram Nagar, Coimbatore - 641 009
0422 - 4212232
www.accenttechnosoft.com
info@accenttechnosoft.com

NEHRU INSTITUTE OF TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

5.01.2021
Coimbatore

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms.AKSHAYA.C (Reg No:721017104002) IV BE (CSE)** Student of **Nehru Institute of Technology, Coimbatore** had Successfully completed his Internship on **"Python With Artificial Intelligence"** in our esteemed organization from **1st December 2020 to 31th December 2020.**

Her performance and conduct were found to be very good.

During this period she was sincere and regular in attending all the phase of Intern Program.

For Accent Techno Soft

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

Authorized Signatory

AB/INTERN/2020/004

AB Plastomech
Solution to Automation

CERTIFICATE

OF INTERNSHIP

Ashika. A

In appreciation for your successful work as intern at AB Plastomech Pvt. Ltd.
The internship conducted between 16th Nov 2020 *to* 16th Dec 2020

PLASTOMECH PVT LTD BANGALORE

NEHRU INSTITUTE OF TECHNOLOGY CBE-641 105

26-12-2020
Date

Signature

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

CERTIFICATE OF COMPLETION

5 March 2021 - 30 May 2021

SHAPEAI

SUHAIL AHAMED KHAN

Has successfully completed the

DATA ANALYST

Internship and Training Program

Shaurya Sinha

CO-FOUNDER

NEHRU INSTITUTE OF TECHNOLOGY CBE-641 105

Scan the QR code to verify

or visit: https://cert.shapeai.tech/verify/Z1yfPAO

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

Value Added Courses Certificates

NEHRU INSTITUTE OF TECHNOLOGY

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

Certificate for Participation

Proudly Presented to

Mr. SANJAY C

Student, II year, Agriculture Engineering
has attended the value added programme on the topic,

"FARMING SYSTEMS AND SUSTAINABLE AGRICULTURE"

organized by
Department of Agriculture Engineering, Nehru Institute of Technology, Coimbatore
from 16-08-2020 to 18-09-2020.

NEHRU INSTITUTE OF TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

Dr. K. P. ARULSHRI
Principal

NEHRU INSTITUTE OF TECHNOLOGY

Accredited with AICTE, Affiliated to Anna University, Chennai

KALIYAPURAM, COIMBATORE - 641 105

Moulding True Citizens

NEHRU GROUP OF INSTITUTIONS

TAMILNADU • KERALA

ISO 14001:2004 CERTIFIED INSTITUTIONS

DEPARTMENT OF AERONAUTICAL ENGINEERING

CERTIFICATE OF APPRECIATION

This is to certify that Ajith P, IV Year from Department of Aeronautical Engineering has participated successfully in the Value Added Programme on **"Unmanned Aerial Vehicle"** conducted at Nehru Institute of Technology between 15.02.2021 and 19.02.2021.

Mr. A. Balthilak
Coordinator

Mr. S. Selva Kumar
HOD

Dr. M. Sivaraja
Principal

*E-certificate, signatures not required

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

NEHRU INSTITUTE OF TECHNOLOGY

Accredited with AICTE, Affiliated to Anna University, Chennai

KALIYAPURAM, COIMBATORE - 641 105

Moulding True Citizens

NEHRU GROUP OF INSTITUTIONS

TAMILNADU • KERALA

ISO 14001:2004 CERTIFIED INSTITUTIONS

DEPARTMENT OF AERONAUTICAL ENGINEERING

CERTIFICATE OF APPRECIATION

This is to certify that Sarulatha S, III Year from Department of Aeronautical Engineering has participated successfully in the Value Added Programme on **"Unmanned Aerial Vehicle"** conducted at Nehru Institute of Technology between 15.02.2021 and 19.02.2021.

Mr. A. Balthilak
Coordinator

Mr. S. Selva Kumar
HOD

Dr. M. Sivaraja
Principal

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS", KALIYAPURAM
THIRUMALAYAM PALAYAM (PO)

As certified, signatures not required

NEHRU INSTITUTE OF TECHNOLOGY

Accredited with AICTE, Affiliated to Anna University, Chennai

KALIYAPURAM, COIMBATORE - 641 105

Molding True Citizens
NEHRU GROUP OF INSTITUTIONS
TAMILNADU • KERALA
ISO 14001:2004 CERTIFIED INSTITUTIONS

DEPARTMENT OF AERONAUTICAL ENGINEERING

CERTIFICATE OF APPRECIATION

This is to certify that Kannan M, II Year from Department of Aeronautical Engineering has participated successfully in the Value Added Programme on **"Unmanned Aerial Vehicle"** conducted at Nehru Institute of Technology between 15.02.2021 and 19.02.2021.

Mr. A. Balthilak	Mr. S. Selva Kumar	Dr. M. Sivaraja
Coordinator	HOD	Principal

*E-certificate Signature not required

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
KALIYAPURAM
COIMBATORE

NEHRU INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
'Jawahar Gardens', Kaliapuram, Thirumalayampalayam, Coimbatore

DEPARTMENT OF AUTOMOBILE ENGINEERING

Certificate

This is to certify that

Mr. / Ms. MOHAMMED AMEER A , IVth AUTO
has successfully completed the value added course on

HIGH PERFORMANCE POLYMERS

From 06/03/21 *to* 03/04/2021

K. Ayyakumar
Course Coordinator

HOD

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM
THIRUMALAYAMPALAYAM (PO)
COIMBATORE - 641 105.
Principal

Webinar Certificates

NEHRU INSTITUTE OF TECHNOLOGY

KALIYAPURAM, COIMBATORE -641 105

(Approved by AICTE, New Delhi – Affiliated to Anna University, Chennai)

Arithmetic reasoning and Percentage – Soft skills training and Communication skills-I

Date : 09.09.2020

Venue : Online Mode

Resource person :

Mrs. Revathi Gopalan,
Soft Skills Trainer,
Nehru Corporate Placements and Industrial Relations
Coimbatore

Objective :

To enhance the student's employability skills and make ready to employability

Content :

1. Aptitude
2. Personal grooming
3. Verbal ability
4. Interpersonal skills

Expected outcome:

1. Improved problem solving
2. Effective communication
3. Stronger leadership
4. Enhanced creative thinking

NEHRU INSTITUTE OF TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

Arithmetic reasoning and Percentage – Soft skills training and Communication skills-I (09.09.2020)

There are 53 students enrolled and attended this training program on 09.09.2020

NEHRU INSTITUTE OF TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

NEHRU INSTITUTE OF TECHNOLOGY

KALIYAPURAM, COIMBATORE -641 105

(Approved by AICTE, New Delhi – Affiliated to Anna University, Chennai)

Ref: NIT/Cir-5/SST/2021

24.02.2021

Circular

It is to inform you that Capacity building program on analytical and problem-solving skills is to be held on 26.02.2021, 10.30 am for all B.E Automobile engineering students. The venue of the program is P.K.DAS Seminar Hall. All the students are asked to attend the program without fail.

Principal

To

HOD/ Automobile Engineering
(Circulate to all the Automobile Engineering students through class advisors)

Copy to

1. IQAC
2. Office file

NEHRU INSTITUTE OF TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM PO,
COIMBATORE 641 105.

NEHRU INSTITUTE OF TECHNOLOGY

KALIYAPURAM, COIMBATORE -641 105

(Approved by AICTE, New Delhi – Affiliated to Anna University, Chennai)

DEPARTMENT OF AUTOMOBILE ENGINEERING

CAPACITY BUILDING PROGRAM ON ANALYTICAL AND PROBLEM-SOLVING SKILLS

Academic Year: 2020-2021 **Semester: EVEN**

Name of Activity/Event/Program	CAPACITY BUILDING PROGRAM ON ANALYTICAL AND PROBLEM-SOLVING SKILLS
Date	**26.02.2021 AT 10.30 AM**
Venue	P. K. Das Hall, Nehru Institute of Technology
Organized by	DEPARTMENT OF AUTOMOBILE ENGINEERING
Name of Faculty/Coordinator	Mrs.T.Banu Internal resource person, Nehru Institute of Technology, Coimbatore
Participated by	All the Final year Automobile engineering students of Nehru Institute of Technology
Objective	The objective of learning strong analytical and Problem-solving skills. Knowledge of machine design, manufacturing processes
Content	1. Understanding of electrical and electromechanical systems 2. Knowledge of digital circuits and interfacing with mechanical system 3. Knowledge of digital circuits and interfacing with electromechanical system
Outcome of Activity/Event/Program	All the IV Automobile students of Nehru Institute of Technology, Kaliyapuram, Coimbatore attended and understood the points mentioned by the resource person 1. To know the basic knowledge about the machine design 2. To expertise in Problem-solving skills 3. To equip analytical skills There are **14** students enrolled and attended the program on 26.02.2021

NEHRU INSTITUTE OF TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

NEHRU INSTITUTE OF TECHNOLOGY

KALIYAPURAM, COIMBATORE -641 105

(Approved by AICTE, New Delhi – Affiliated to Anna University, Chennai)

08.09.2020

Circular

It is to inform you that Arithmetic reasoning and Percentage – Soft skills training and Communication skills-I is to be held on 09.09.2020 for the all II year B.E students. All the students are asked to attend the program through the Google meet https://meet.google.com/ghy-fgd-ruym without fail.

Principal

To
All HODS (Circulate to all the II year students through class advisors)

Copy to

1. IQAC
2. Office file

NEHRU INSTITUTE O. TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

Arithmetic reasoning and Percentage – Soft skills training and Communication skills-I

Date : 09.09.2020

Venue : Online Mode

Resource person :

Mrs. Revathi Gopalan,
Soft Skills Trainer,
Nehru Corporate Placements and Industrial Relations
Coimbatore

Objective :

To enhance the student's employability skills and make ready to employability

Content :

1. Aptitude
2. Personal grooming
3. Verbal ability
4. Interpersonal skills

Expected outcome:

1. Improved problem solving
2. Effective communication
3. Stronger leadership
4. Enhanced creative thinking

INSTITUTE O. TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

PROFILE OF THE RESOURCE PERSON

Mrs.T.Banu is currently working as an Associate professor in the department of Aeronautical Engineering in Nehru institute of Technology. Well experienced in Experimental analysis of bamboo & glass hybrid reinforced composites. She has completed M.E in Aeronautical Engineering from Anna University, Chennai in July 2015 and B.Tech in Aeronautical Engineering from JRN Rajasthan Vidyapeeth University, Udaipur, Rajasthan in July 2009. She is also well-versed in Aircraft Research and Design Centre(ARDC) gained experience from Hindustan Aeronautics Limited, Bangalore. She has published articles in referred journals and presented more than 15 papers in conferences and seminars. She has more than 5 years of teaching experience She is an extra ordinary trainer in analytical and problem solving skills

NEHRU INSTITUTE OF TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

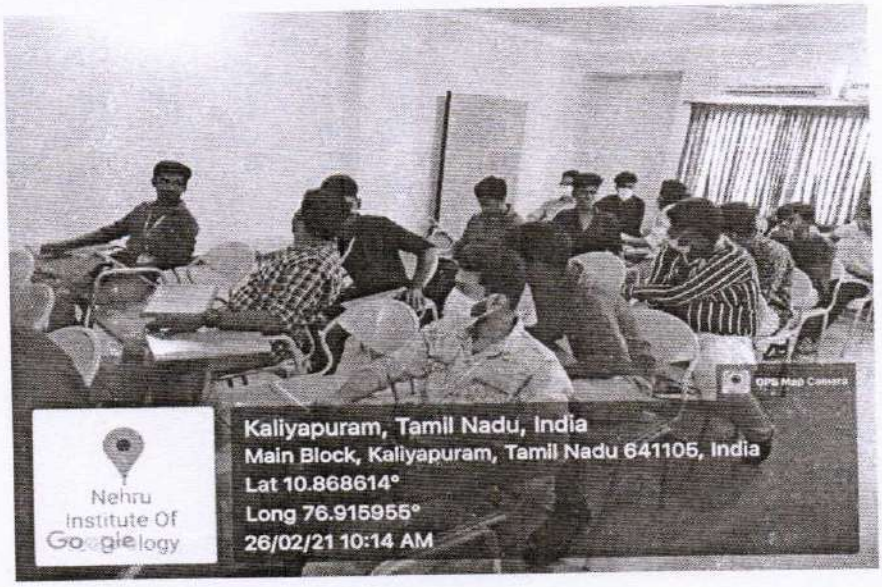
NEHRU INSTITUTE OF TECHNOLOGY

KALIYAPURAM, COIMBATORE -641 105

(Approved by AICTE, New Delhi – Affiliated to Anna University, Chennai)

CAPACITY BUILDING PROGRAM ON ANALYTICAL AND PROBLEM-SOLVING SKILLS

On 26.02.2021



There are **14** students enrolled and attended this awareness program

on 26.02.2021

NEHRU INSTITUTE O. TECHNOLOGY CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)
COIMBATORE - 641 105.

NEHRU INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
'Jawahar Gardens', Kaliapuram, Thirumalayampalayam, Coimbatore

Department of AGRICULTURE ENGINEERING

proudly organizes

National Level Webinar Series on

SOIL LESS FARMING
PROSPECTS & CHALLENGES

on 18.05.2021 @ 12 NOON

Resource Person

DR. UMESH BARIKARA

Scientist (Soil and Water Engg)
University of Agricultural Sciences, Raichur
(Karnataka)

Register here

Objective:
To understand prospects & challenges in Soil Less Farming

Target Audience:
Farmers, Home makers, Research Scholars, Faculty Members and College Students

e-certificate will be provided to all participants

Meeting ID: https://meet.google.com/mwd-psbf-vaq

Co-ordinator	Convener	Co-Patron	Patron	Chief Patron
Dr. MADHUSUDHAN NAYAK C	Prof. GULIA S NAIR	Dr. N. SAKTHIVEL	Dr.M.SIVARAJA	Dr.P.KRISHNAKUMAR
Asst. Prof. - Agriculture Engg.	HOD - Agriculture Engg.		Principal	CEO & Secretary, NGI

CBE-641 105

PRINCIPAL
NEHRU INSTITUTE OF TECHNOLOGY
"JAWAHAR GARDENS," KALIYAPURAM,
THIRUMALAYAM PALAYAM (PO)