



DHANEKULA INSTITUTE OF ENGINEERING & TECHNOLOGY

Autonomous

GANGURU :: VIJAYAWADA – 521 139

(Approved by AICTE New Delhi, Permanently Affiliated to JNTU Kakinada)

ISO 9001:2015 Certified Institution, Accredited by NBA for ME, EEE, ECE & CSE.

E-mail: diet.principal@gmail.com, principal@diet.ac.in, website: www.diet.ac.in, Phone: +91-8333924842, 8333924843

7.2.1: 1. Title of the Practice: Integrating Design thinking in Engineering Education

2. Objectives of the Practice :

1. Nurture creative confidence and enhance students' problem-solving skills.
2. Promote interdisciplinary collaboration and the generation of diverse ideas.
3. Provide hands-on experience in applying design thinking principles to real-world challenges.
4. Team-based projects for enhancing students' communication and collaboration skills.

3. The Context:

The main aim is to establish a good foundation on design thinking. A human-centered approach to problem-solving and innovation. Experiential learning is encouraged, promoting hands-on practice and reiterative prototyping. The core principle is Collaboration which encourages teamwork and interdisciplinary cooperation.

4. The Practice:

The practice integrates design thinking and innovation course to the existing curriculum. The criteria cover various aspects, including the team's application of design thinking phases, depth of study through surveys and literature review, communication skills, and individual contributions. Continuous feedback and improvement opportunities are provided throughout the process. The academics are integrated with the regular timetable to obtain certification from organizations like Microsoft, AWS Cloud, Edu Skills, IIT Bombay, and more. Many students got certified in Microsoft Azure IOT Developer, microsoft Data Engineering from Microsoft, and from Edu Skills they are certified in AWS Cloud Virtual, AWS AI&ML, and Android Developer. From IIT Bombay spoken tutorials platform students achieved certification in C++ and Python.

5. Evidence of Success:

The big benefits of holding a certificate is transparency. Simply attending a training course does not guarantee that he/she actually learned anything. But a certificate for passing an exam conveys a specific message to employers, employees, and peers alike that the person has knowledge and professional expertise, has worked on their career development, and is interested in gaining new skills.



An effective training program can help bridge this gap among aspiring young professionals, and with adequate certifications, one can prove to be job-ready and make the expertise recognized. Students exhibited enthusiastic participation in learning the field-oriented skills. This has immensely helped them in improving the hands-on aspects. Students who participated in developing interesting mini-projects and major projects addressing real-time problems certainly provide feasible solutions for real-life problems using technology platforms. The placement statistics of the institute will also be improved.

6. Problems Encountered and Resources Required:

Implementing the practice faced challenges such as faculty resistance, resource allocation, subjective assessment, and time constraints. Overcoming these challenges required extensive faculty training, careful resource allocation, the development of appropriate assessment methods, and meticulous time management within the academic calendar. In summary, the practice successfully integrates design thinking into engineering education, fostering innovation, interdisciplinary collaboration, and experiential learning. Despite challenges, the institution's commitment to faculty training and ongoing support has led to positive outcomes, with students actively engaging in design thinking projects and showcasing their innovative solutions.

Challenges include faculty readiness and training, resource allocation within a packed curriculum, subjective assessment methods for design thinking projects, and time constraints. Overcoming faculty resistance and ensuring sufficient training were crucial for successful implementation.



IQAC Coordinator



Principal



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PROJECT EXPO 2024


A project expo is an event where participants showcase their projects, innovations, and research findings to a wider audience. It serves as a platform for individuals or teams to present their work, exchange ideas, and engage with peers, professionals, and stakeholders from relevant fields.

To accomplish the above tasks, Project EXPO 2024, a National level hardware symposium was conducted on 6th March, 2024 in which around 360 students were participated and 88 projects were exhibited.

The inauguration was held at 11:30AM by the Chief Guest NIR GENDLER, GM- Optronics Global TechEd Division in India & Israel, together with Director Sri D.V.R.K.Ravi Prasad, Dr. Ravi Kadiyala, Principal, Dr.M.Vamshi Krishna, HOD and Dr.A.H.Sharief, Coordinator. Students displayed around 88 projects and an internal panel of faculty members were nominated to judge the projects.

Students from various colleges visited the expo and walk through the projects displayed in the expo. Overall, participants have shown good involvement in project expo which helps in creating a dynamic and engaging environment where ideas are shared, collaborations are fostered, and innovation thrives. By actively participating in the event, individuals have gathered good technical knowledge in the projects.

In the valedictory program held in college auditorium, cash prizes of 2500/-, 1500/- and 1000/- were given to the first, second and third prize winners. Coordinator proposed the Vote of Thanks.


HOD, ECE
HEAD OF
Electronics & Communication Engineering
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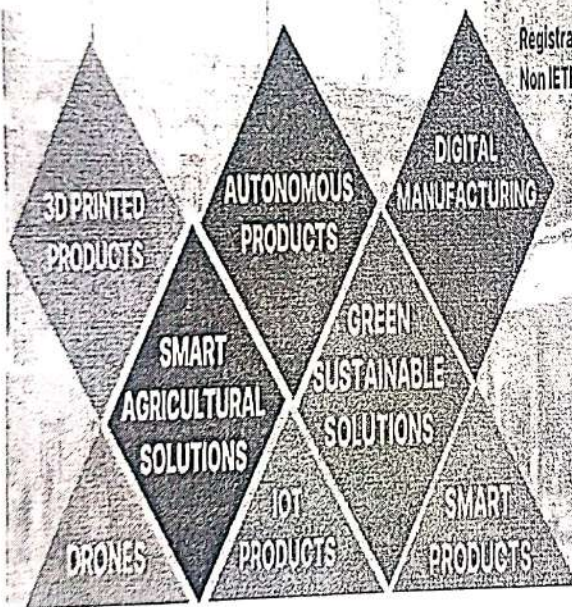


DHANEKULA
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NATIONAL LEVEL PROJECT EXPO-2024

DEPARTMENT OF ECE



Registration: IETE Members: Free
 Non IETE Members: 100 per Group (Maximum 4 persons)

06/03/24

1st: INR 2500

2nd: INR 1500

3rd: INR 1000

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Electrical & Communication Engin.
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DHANEKULA

INSTITUTE OF ENGINEERING & TECHNOLOGY
Ganguru, Vijayawada

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

WELCOME

to
"PROJECT EXPO"
Inauguration
by

NIR GENDLER

GM - Optronics Global TechEd Division in India & Israel
Dronacharya Tech-HUB

Date & Time
06.03.2024
11:30 AM

Venue
Room No F 43
First Floor

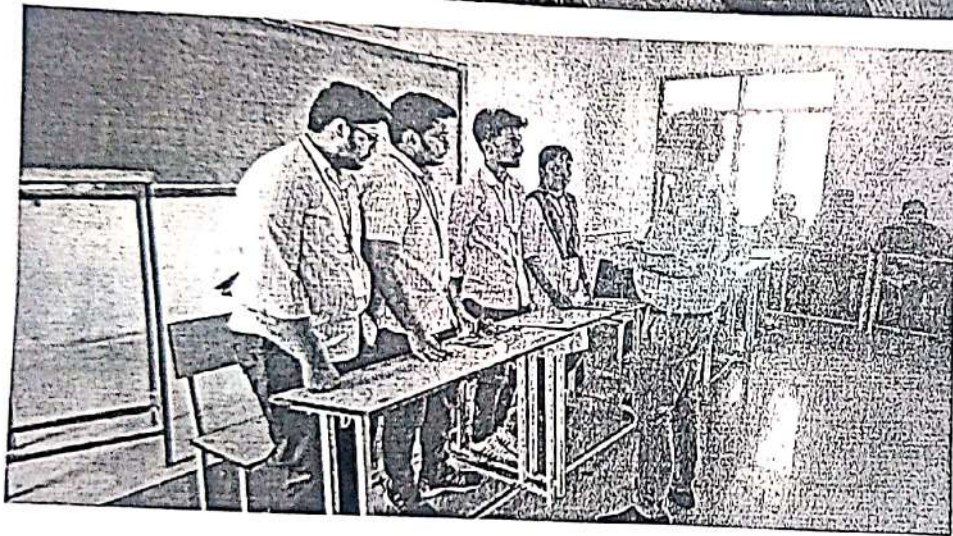
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THE DEPARTMENT OF
& Communication Engineering
TEKULA INSTITUTE
OF ENGINEERING AND TECHNOLOGY
Gangur, VILAYAWADA-621 139



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Department of *EC*
Electronics & Communication Engineering
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GANGURU: VIJAYAWADA - 521 139

Department of Information Technology

Academic Year 2023-24

Project Batches and Titles

Year & Sem : IV-I

BA TC H	Roll No	Name	Project Title
1	208T1A1250	POTHUKUCHI VASU PRANUSHA	Early Detection Of COPD Using Boosting Algorithms
	208T1A1234	MOHAMMED AZRA TARANNUM	
	208T1A1260	TALLURI NAGASREE	
	208T1A1243	PALUTLA HARSHITH	
	208T1A1257	SANDIPAMU HARSHITH	
2	208T1A1202	ALLAMALLA VIJAYA PRAJWALA	Botnet Attack Detection In IOT Networks
	208T1A1247	PEDDI KAVYA NAGA SRI	
	208T1A1207	BATTU SRI CHETAN	
	208T1A1232	MERUGU TRIVANI	
	208T1A1214	GINJUPALLI KRISHNA CHAITANYA	
3	208T1A1241	NUNNA SUJITHA	Automated Weed Identification In Vegetables Farming Using Image Processing and Deep Learning
	208T1A1210	EDUMUDI SRI HARSHITHA	
	208T1A1237	NAGANABOYIN A LAKSHMI PRASANNA	
	208T1A1256	SAMUEL PRASANNA KUMAR GODEY	
4	208T1A1252	PUSHADAPU DEEPIKA	A Systematic Review of Predicting Elections Based On Social Media Data
	208T1A1212	GARLAPATI SUPRIYA	
	208T1A1221	KATRAGADDA NAGA	



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		MOUNIKA	
	208T1A1227	MALAPROLU JASWANTH	
5	208T1A1261	UMMADISETTI DHANA LAKSHMI	Child Autism Diagnosis Using Deep Learning –Based Facial Expression Analysis
	208T1A1204	ANDE ANUSHA	
	218T5A1203	PENTAPATI HARSHITHA	
	208T1A1206	BANDARUPALLI HARSHA VARDHAN	
6	208T1A1240	NEMALAPURI MOUNIKA	Detection of URL Frauds Using Cyber Security with ML
	208T1A1213	GHANTA ROHITH	
	208T1A1239	NEELAPALA SURESH KUMAR	
	208T1A1244	PANCHAKARLA NAGA INDU SRI	
7	208T1A1222	KETHEPALLI CHAMUNDESWARI	Depression Detection Based on Speech Format with Deep Learning and Advanced Voice Processing Techniques
	208T1A1201	ALLADA TULASI	
	208T1A1226	MAGANTI MEGHANA	
	208T1A1205	AVIRINENI NAGA KAVYA	
8	208T1A1219	KAMBAPU ANUHYA CHOWDARY	Fake Profile Identification Using Machine Learning
	218T5A1202	GANDHAM VINAY KUMAR	
	208T1A1223	KINTHALA MOUNIKA	
	208T1A1255	SAIKAM LAKSHMI	
9	208T1A1211	GARIMELLA DEVISRI	Dynamic Financial Fraud Detection Framework using Machine Learning
	208T1A1216	GUNTRU MADHUBABU	
	208T1A1259	TALASILA VENKATA RAMAVARDHAN	
	208T1A1248	PODUGU DEEPIKA	

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10	208T1A1217	GUNUPURU MURALI	Classification and Conversion of English Accents using Machine Learning
	208T1A1254	S N S SASIDHAR NALLAMOLU	
	208T1A1245	PAPOLU KAVYA SRI	
	208T1A1246	PAWON KUMAR GHOSH	
11	208T1A1230	MATHI SAI CHAITYA	Deciphering Brain Tumor using Deep Learning for Accurate Classification and Detection
	208T1A1225	KUTTUBOINA MANOHAR	
	208T1A1258	SINKA MAHESH	
	208T1A1235	MURALA NAGA SAI SRILAKSHMI	
12	20NN1A1245	NUKALA NIHARIKA	Masked Facial Recognition in Security Systems Based on Deep Learning
	208T1A1263	YARLAGADDA DHANA LAKSHMI DEVI	
	208T1A1215	GOGINENI TARUN	
	208T1A1236	MYNENI SIDDHARTHSAI	
13	208T1A1249	POLAGANI RAMYA SREE	Image Steganography using GAN
	208T1A1251	PUPPALA.SARV ANI	
	208T1A1228	MAREEDU DURGA VINAY KUMAR	
	218T5A1204	POKURI NARASIMHA NAIDU	
14	208T1A1229	MARRIPUDI HARINI	Direct Speech to Image Translation using CNN
	208T1A1209	DANTALA MEGHANA	
	208T1A1262	YADALA NAGA SAI GOPI CHAND	
	218T5A1205	TALAM GUNA VENKATA PRAKASH	
15	208T1A1231	MEENIGE RAJITHA	Online Fraud Detection on Loan Apps
	208T1A1218	JONNALAGADD A SRILEKHA	

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	218T5A1207	LANKE TEJA SAI VARMA	
	208T1A1233	MOHAMMAD AMEER SUHAIL	
16	208T1A1224	KONDAVEETI MADHURI	Advancing Brain Stroke Classification Leveraging Deep Learning on CT Scans for Enhanced Prediction Accuracy
	218T5A1201	BELLAMKONDA GEETHIKA SAI	
	208T1A1242	OTTIPOLU HARIKA	
	208T1A1238	NANNAPANENI LAKSHMI REVANTH KUMAR	
17	208T1A1253	RAJANA V V MANOJ VARDHAN	Predicting Student's Final Performance using Artificial Neural Networks
	208T1A1203	ALURU SHANMUKHA SAI KRISHNA	
	218T5A1206	VEMULAPALLI GANESH DURGA SAI	


Project Coordinator


HOD, IT



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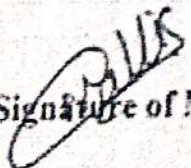
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

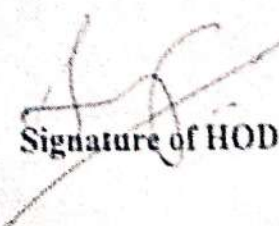
Professional Societies activities committee

List of Students Association Activities

AY: 2023-2024

S. No	Date Of Event	Event Description	Event Venue	No. Of Students / Teams Participated	remarks
1	18-03-2024	Project Expo (IV CSE)	F13, F14, F16	41 batches / 200 students	
2	06-03-2024	Project Expo	F8 to F15	59 batches / 250 students	
3	18-10-2023	Project Expo (III CSE)in collaboration with ISTE	Mechanical Seminar Hall(F15)	189	
4	15-09-2023	Essay Writing	CSE Seminar Hall	18	
5	15-09-2023	Technical Quiz	F10	18 batches / 50 students	
6	15-09-2023	Poster presentation	F15	13	
7	15-09-2023	Paper presentation	CSE Seminar Hall	12	
8	16-08-2023	Hackathon	ECC(G10) Lab, OST(G06) Lab, BCL(F06) Lab, DE Lab(S10A)	271	
9	14-08-2023	Digital poster Design	DE lab	78	


Signature of Member


Signature of HOD



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PROFESSIONAL SOCIETIES COMMITTEE

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Summary of Professional Societies Activities

Academic Year	No. of Events	No. of Participants
2023-24	8	307
2022-23	8	286
2021-22	7	343
2020-21	0	0
2019-20	10	447
2018-19	04	317
2017-18	02	100
2016-17	04	272
2015-16	10	652
2014-15	03	330

An. Anil Kumar
Professional Society Member

Ravi Reddy
Head of the Department

Head of the Department
Electrical & Electronics Engineering
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Ganguru, Vijayawada-521 130





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PROFESSIONAL SOCIETIES COMMITTEE

Annual Report on Activities Conducted

Academic Year: 2023 – 2024

S.No	Name of the Event	Date of the Event	No. of Participants
1	"APPLICATION OF FACTS DEVICES IN POWER SYSTEMS"	12-12-2023	47
2	"MACHINE LEARNING APPLICATIONS IN THE FIELD OF ELECTRICAL ENGINEERING"	13-12-2023	51
3	NATIONAL ENERGY CONSERVATION DAY" on "ENERGY CONSERVATION BUILDING CODES FOR INDIA – Options and Issues"	14-12-2023	26
4	DESIGN OF ELECTRIC VEHICLE USING MATLAB	28-12-2023	32
5	"EXPLORING AN ACADEMIC ASSOCIATION BETWEEN THE IET AND DIET"	22-01-2024	26
6	INTERNET OF THINGS IN SMART SPACES (IOTSS-2024)	26-02-2024 to 02-03-2024	75
7	LABVIEW AND ITS APPLICATIONS	21-23 March 2024	28
8	AWARENESS ON ABROAD EEE EDUCATION	27-03-2024	22

Ch. Anil Kumar
Professional Society Member



Ravi Reddy
Head of the Department
Head of the Department
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Ch. Anil Kumar
 Professional Society Member



Ravi Reddy
 Head of the Department
 Head of the Department
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PROFESSIONAL SOCIETIES COMMITTEE

Activities Conducted For The Academic Year 2023 – 2024

S.No	Event Name	Event Type	Date	Resource Person with designation
1	"APPLICATION OF FACTS DEVICES IN POWER SYSTEMS"	Seminar	12-12-2023	Mr. Y SURESH BABU (Ph.D) Associate Professor, LIMAT, Madalavarigudem
2	"MACHINE LEARNING APPLICATIONS IN THE FIELD OF ELECTRICAL ENGINEERING"	Seminar	13-12-2023	Dr. L SHANMUKHA RAO Professor & HOD, KHIT, GUNTUR
3	NATIONAL ENERGY CONSERVATION DAY" on "ENERGY CONSERVATION BUILDING CODES FOR INDIA – Options and Issues"	Seminar	14-12-2023	Dr. B CHANDRA SEKHA TECHNICAL PROJECT MANAGER, L&T TECHNOLOGY SERVICES Ltd., BANGALORE
4	DESIGN OF ELECTRIC VEHICLE USING MATLAB	Workshop	28-12-2023	Dr. D MOHAN REDDY, PROFESSOR, DEPARTMENT OF EEE, HELAPURI INSTITUTE OF SCIENCE AND TECHNOLOGY, ELURU
5	"EXPLORING AN ACADEMIC ASSOCIATION BETWEEN THE IET AND DIET"	Seminar	22-01-2024	Mr. Amitabh Sinha. Head of Memberships, Institution of Engineering and Technology, India.
6	INTERNET OF THINGS IN SMART SPACES (IOTSS-2024)	Workshop	26-02-2024 to 02-03- 2024	CVR COLLEGE OF ENGINEERING, Academicians from IITs, NITs and Industry Experts
7	LABVIEW AND ITS APPLICATIONS	Workshop	21-23 March 2024	Mr. P Pavan Kumar (218T5A0205), Mr. B Sukumar (218T5A0207), IV EEE
8	AWARENESS ON ABROAD EEE EDUCATION	Seminar	27-03-2024	L Indira & IDP Education Team, Destination Manager, IDP Education Pvt Ltd, Vijayawada.

Ch. Anil Kumar
Professional Society Member



P. Pavan Kumar
Head of the Department
Head of the Department
Electrical & Electronics Engineering
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PROJECT WORK TITLES

Batch No.	Roll No.	Guide Name	Name of the Student	Project Title
B1	218T5A0311	Mr. K Pavan Kumar	GADI NARAYANA RAO	Optimizing Fused Deposition Modelling Parameters for Sustainable and Cost-effective Prototyping in Aerospace Manufacturing
	218T5A0323		PATNALA VEERA SURYA TEJA	
	218T5A0328		SHAIK EJAJ AHMED	
	208T1A0309		GUNTAKA DINESH REDDY	
	208T1A0310		JAKKIREDDY CHENNAKESAVA REDDY	
B2	218T5A0307	Ms. AHR Madhuri	CHENNU JOHNY	Design and Structural Analysis of Centrifugal Pump Impeller using Various Materials
	218T5A0302		BACHALAKURI MANI SHARMA	
	208T1A0314		KOLLATI GOPI	
	208T1A0302		AREPALLI KIRAN SAI	
	208T1A0318		MATURU GNANA AKHILESH	
B3	218T5A0315	Mr. D Bala Nagesh	JILLEPALLI SANDEEP	Thermal Analysis of Electric Vehicles Disc Pad using ANSYS
	208T1A0315		KOLLIBOINA GURU BABU	
	218T5A0309		DIRISINA YASWANTH	
	208T1A0326		VENNA VENKATA LAKSHMOJI RAO	
B4	218T5A0326	Dr. P V Siva Teja	SASUBILLI APPALA NAIDU	Comparative Analysis of Swing Arm Materials for Suspension System using CATIA and ANSYS
	218T5A0329		TATIPAMULA SRI HARSHA	
	218T5A0322		PATAN YOUSAF KHAN	
	208T1A0319		MUNNALURI RATNA KUMAR	
B5	218T5A0305	Dr. V L Krishnan	BORA HEMARAJU	Robotic Grapes Harvesting based on Visual-Servoing
	218T5A0327		SHAIK ABDUL VAAHID	
	208T1A0303		BATCHU JOSEPH RATNA KUMAR	
	208T1A0317		KUNAPAREDDY VENKATA SURESH BABU	
B6	218T5A0303	Mr. M Ramgopal	BANAVATHU ANIL NAYAK	Design and Analysis of Shock Absorber by using Different Materials
	218T5A0319		MOPIDEVI SIDHARDHA	
	208T1A0312		KALLA YASHWANT	
	208T1A0306		CHALASANI MOHITH SAI RAM	
B7	218T5A0321	Mrs. K Komali	PANTHAM PRADEEP KUMAR	Modelling, Static and Modal Analysis of Bombardier CRJ-200 Aircraft Fuselage using Various Materials
	208T1A0325		VAZRALA SAI ASWIN REDDY	
	208T1A0323		SASUBILLI BHANUTEJA	
	218T5A0314		JADA.SUBHASH	





Best Practice-2:

1. Title of the Practice: HOLISTIC DEVELOPMENT OF A STUDENT BEYOND THE CLASSROOM COMMUNITY SERVICE

2. Objectives of the Practice:

1. Creating social responsibility among student community .
2. Encourage students to design and execute activities addressing the social concerns.
3. Aims to keep Students closely connected to the society.
4. Give Opportunity for the students to volunteer viz various social service groups, two NSS Unit.

3. The Context:

DIET looks forward to create opportunities for the students to understand the community issues and serve them better. This involved conducting surveys, engaging with locals, and understanding their priorities. Efficient utilization of resources through structured organization of volunteering activities tailored to address specific problems and creating a viable environment for these activities posed additional challenges.

4. The Practice:

The institution employs social service groups to cater to specific societal demographics, offering diverse services from personality development to aiding the underprivileged and rural communities, fostering experiential learning and holistic student growth. A structured monitoring system is in place for social service groups in the institution. It includes an faculty coordinators, and an annual executive committee with faculty and student representatives. The Dean of Student Affairs oversees these groups for effective coordination. A Center for Fostering Social Responsibility mentors and monitors student activities for societal betterment.


5.Evidence of Success:

The National Service Scheme (NSS) at Dhanekula Institute of Engineering and Technology remains committed to fostering youth leadership, civic engagement, and social responsibility. Through impactful initiatives, the NSS unit contributes meaningfully to society and the holistic development of its volunteers. NSS at DIET provides students with a platform to enhance leadership skills, develop empathy, and address social challenges. By engaging in various welfare activities, volunteers gain valuable insights and are inspired to become community change-makers. Each year, DIET honors the Best NSS Coordinator, Best NSS Units, and Best NSS Volunteers. The NSS unit continues to shape socially responsible citizens, through community development initiatives, it sets a model for promoting youth leadership and civic engagement.

6.Problems Encountered and Resources Required:

The problems encountered are selecting community in near by radius requiring proper time management and planning. The practice utilizes social media to better reach the community. The practice aligns with institutional values by promoting volunteerism and encouraging students with shared interests to form groups. This inclusive approach enhances the potential for societal impact beyond predefined NSS units, fostering a spirit of social responsibility among students. The Community Service effectively integrates diverse social service groups, providing students with experiential learning opportunities and contributing to


IQAC Coordinator


Principal



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National Service Scheme (NSS)

Summary of NSS Cell Activities

2023 - 2024

No. of Events Organized	26
Total Participants	6624

S. No	Name Of The Activity	Venue	Date(S)	No. of Participants
1	Medical Camp01	G-27, DIET	05-08-2023	34
2	Meri Mitti Mera Desh	Edupugallu and Vanukuru	09-08-2023	30
3	New Voter Registration	CSE Seminar Hall, DIET	14-08-2023	108
4	Independence Day @ JNTUK	JNTUK, Kakinada	15-08-2023	12
5	Dry Eye Syndrome Awareness Session	DIET Auditorium	25-08-2023	317
6	Unity Day	Class rooms of I, II, III & IV year	31-10-2023	1942
7	State Educational Achievement Survey (SEAS- 2023)	Schools in Penamaluru Mandal	03-11-2023	63
8	Fund Raising For IAB	NSS Unit, DIET	04-11-2023	736
9	Swachh Diwali Campaign	NSS Unit, DIET	10-11-2023	118
10	Constitution Day	NSS Unit, DIET	25-11-2023 & 26-11-2023	412
11	Seminar on National Language Promotion	DIET Auditorium	06-01-2024	273
12	District Road Safety Week	DIET & Penamaluru	08-01-2024	25
13	New Voters registration Drive	DIET	10-01-2024	125
14	Celebration of National Youth Day and Youth Week	Nehru Yuva Kendra Sangathan (NYKS), Krishna District	12-01-2024	249
15	National Voters Day Pledge	NSS Unit, DIET	25-01-2024	682
16	Voter Registrations at Vanukuru	NSS Unit, DIET	25-01-2024	10
17	Republic Day Celebrations	NSS Unit, JNTUK	26-01-2024	10





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National Service Scheme (NSS)

18	Road Safety	PENAMALURU POLICE	27-01-2024	54
19	Special Camp	VANUKURU VILLAGE	01-02-2024 to 07-02-2024	50
20	Campus Cleaning Drive	NSS Unit, DIET	24-02-2024	41
			02-03-2024	63
			18-03-2024	46
			23-03-2024	50
			30-03-2024	57
			06-04-2024	36
			20-04-2024	40
			27-04-2024	71
			04-05-2024	63
01-06-2024	66			
21	Blood Grouping	Indian Red Cross Society, Machilipatnam	26-02-2024	361
22	Eye Camp	Vasan Eye Care Hospital, Vijayawada	29-02-2024	127
23	Blood Donation Camp	American Cancer Care Blood Centre, Vijayawada	05-03-2024	36
24	Mahasivaratri Festival	Sri Ramalingeswara Swamy Devasthanam, Yanamalakuduru	08-03-2024	30
25	Election Duties 2024	Under Penamaluru Assembly Constituency polling booths	13-05-2024	66
26	International Yoga Day	NSS Unit, DIET	21-06-2024	223

Program NSS PO 21/06/24
National Service Scheme
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