DTE CODE: 4151

Tulsiramji Gaikwad-Patil 🦳



College of Engineering and Technology

Wardha Road, Nagpur-441 108 Accredited A+ Grade (3.32) Approved by AICTE, New Delhi, Govt. of Maharashtra (An Autonomous Institution Affiliated to RTM Nagpur University, Nagpur)



College Code: 272



Research and Development **Policy**

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Vision

To emerge as a learning Center of Excellence in the National Ethos in domains of Science, Technology and Management.

Mission

- To strive for rearing standard and stature of the students by practicing high standards of professional ethics, transparency and accountability.
- To provide facilities and services to meet the challenges of Industry and Society.
- To facilitate socially responsive research, innovation and entrepreneurship.
- To ascertain holistic development of the students and staff members by inculcating knowledge and profession as work practices.

1. Objectives of the R & D Cell

The objectives of R & D Cell are,

- To promote research activities among students and faculty as well to provide a robust platform for sharing and implementing innovative & creative ideas to facilitate exchange of information and interaction among the various research institutes and industries to develop skilled manpower in various engineering fields.
- To administrate all the research Programs of the College by monitoring and coordinating the research Programs.
- To conduct the research review meeting to examine the quality of research being conducted by various teams.
- To cooperate with departmental Research & Development Cell which takes immense efforts to expose the students to recent developments in the technology through innovative project works and paper presentations?

2. Research and Development Cell Committee:

In order to promote research activities and innovations among faculty members and students, the following Committee for the Research and Development Cell is constituted. It is constituted to provide a robust platform for sharing and implementing innovative and creative ideas. This committee works according to the standard operating procedures issued by the Management.

Sr. No	Name of member	Designation/Department	Designation
1.	Dr. P.L Naktode	Principal	Chairman
2.	Dr. Suresh Salankar	Director Academics	Member
3.	Dr. Prashant Thakre	Electrical Engineering	Member
4.	Dr. Amey Khedikar	Civil Engineering	Member
5.	Dr. Pravin Tajne	Electronic and Communication Engineering	Member
6.	Dr. Atul Tekade	Master of Business Administration	Member
7.	Dr. Vijay Talodhikar	Mechanical Engineering	Member
8.	Dr. Manoj Chaudhari	Aeronautical Engineering	Member
9.	Dr. Rohit Kalnake	Biotechnology	Member
10.	Dr. Mamta Takarkhede	Science and Humanities	Member
11.	Dr. Pratik Ghutke	Electrical Engineering	Member Secretary

3. Role and Responsibilities of R & D Cell Committee:

- To encourage faculty members to prepare research proposals, interdisciplinary research, product design and development, publications in reputed journals and conferences.
- To create zeal amongst faculty members towards research and innovation.
- To monitor progress of the research and development activity.
- To review the research proposal and finalize the topic of research.
- To encourage faculties to apply for patents or other Intellectual Property Rights.
- To keep everyone informed about announcements by various funding agencies like DST, DAE, DRDO, ISRO, CSIR, AICTE, UGC and University etc. To develop research proposals for up-gradation of laboratories through AICTE/UGC/MHRD funding opportunities.
- To enter into MoU with industries and R&D organizations for consultancy, collaborative research, sponsored projects, industry and Institute interactions etc.
- To establish collaboration with other universities, public and private sectors and identify R & D projects including consultancy services which could be undertaken at the institution.
- To arrange brainstorming sessions through talks by eminent personalities from industry, R& D organizations and institutions of repute for the better understanding of research methodology and practices currently followed.

- To take up appropriate problems of the industry for finding solutions through R&D projects assigned to faculty and students.
- To explore technological development opportunities for Digital India & Smart City
- To support faculty for delivering talks at different events and conducting workshops, training programs, seminars, conferences, symposia and faculty development programs.
- To advice on thrust areas and disciplines for introducing research programmes and related activities for future development in research.
- To guide the research scholar to develop the study design and methodology of research and identify the course(s) that he/she may have to do.
- To review periodically and assist in the progress of the research work of the research scholar.
- · To Check Malpractices and Plagiarism in Research.
- To provide policy guidelines and direction for the growth and development of research activities.
- To suggest measures for improving existing infrastructural facilities both for academic and sponsored research and enhancing research ambiance.
- To suggest peer reviewed national and international journals for subscription in the central library.
- To allocate budget for conducting workshops, training programs, seminars, conferences
 and Faculty Development Program also for the staff who are attending workshops,
 conferences and paper presentation outside the institute. It also includes software
 purchasing for various departments for research purpose.

4. Standard Operating Procedures (SOP) for R & D at TGPCET

4.1 Introduction

R & D cell is committed to develop research ability in all the students and faculty members, to support research undertaken by the faculty members, encourage them to fetch funding from various agencies, to start consultancies in various fields, to apply for patents and copyrights, to

organize research oriented seminars, conferences, workshops and STTPs. The research support for student at TGPCET has been started with the prime objective of inculcating a culture of innovation driven entrepreneurship through student projects. The support is accorded to encourage students to be innovators and entrepreneurs. The student projects that respond positively to the emerging local and global challenges and opportunities relating to need for developing sustainable product/technology are encouraged. The R & D cell aims at adopting 'students as innovators'. It has a particular focus on completion of the research cycle for students through supporting research dissemination. This initiative provides the testing ground for students to test their research, to develop new technology and design products. It would help the students to publish research papers, obtain patents and initiate startups.

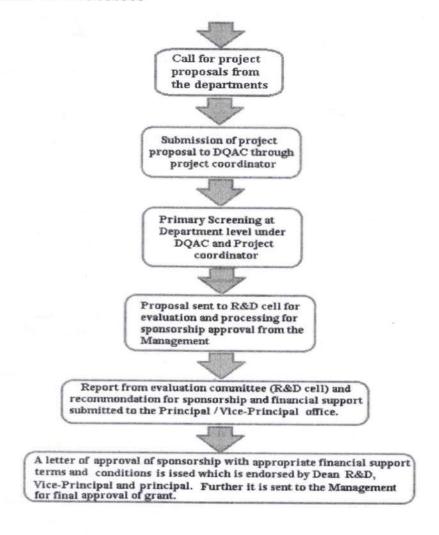
4.2 Eligibility of Applicant (Students) for sponsorship:

At TGPCET the students with innovative research ideas that address the current environmental, energy and technological needs of the society are welcome. The students can form a team of maximum four (04) candidates. In case final year student is applying for the project, then other team member(s) should be from the same batch or junior batches; and when the final year students complete graduation, no additional member will be allowed to be allocated to the project.

4.3 Criteria for selection of Project

 All original ideas that offer innovative solutions to current environmental, energy related problems or lead to an innovative product or technology that would benefit society at large.

4.4 Flow Chart of Processes



4.5 Funding Support

B. Tech. and M. Tech. students will be provided with financial support up to INR 5,000/- and INR 10,000/-, respectively to execute their research ideas under various research initiatives. If required, on the recommendations of screening committee, additional financial support may be provided to the deserving project proposal.

4.6 Format for submission of proposal

Duly filled and signed hardcopy of the project proposal must be submitted to the Project coordinators from respective departments. Only those proposals which are submitted after a plagiarism check duly signed by the mentor will be sent for review to R & D Cell. It is the sole

responsibility of the mentor/ Project Guide and Project coordinator to ensure that all the concepts and ideas are original. (See Annexure 1.0, 1.1 and 1.2 for Project Proposal format and related certificates)

5. Procedure for screening, selection and evaluation

- Only those proposals which are submitted along with a plagiarism check certificate duly signed by the mentor/ Project Guide and Project coordinator will be sent for review. It is the sole responsibility of the mentor to ensure that all the concepts and ideas are original.
- The proposals will be evaluated by members of the DQAC and Project Coordinator at department level.
- The screening committee may call the students for presenting their idea. The committee
 may suggest changes or modification which will be included in the revised proposal.
- The decision of selection or rejection of a proposal will only be based on the recommendation and feedback received from the screening committee.
- The students can take the allotted amount through advance form duly signed by the mentor(s), through proper channel.
- The student will start the work under his/her mentor.
- Research work of the students will be evaluated in three stages:
 - o In the form of Bi-weekly Review.
 - In the form of progress evaluation presentations.
 - Around 10 days before the final evaluation and submission.
 - Final competitive round in the presence of external academic/industrial experts. The
 presence of mentor is mandatory during these presentations.
- Quality projects will be invited for submission with extension of the existing work in the next cycle.
- Accounts will be settled before closing the semester through advance amount clearance form directly from the R&D cell.
- Failing to succeed in completion of project, the students will not be entitled for further financial support.
- Residuary power will lie with Office of R&D at TGPCET.
- Any discrepancies in financial matter will be dealt with serious concern and lead to severe consequences.

- Project can be discontinued any time, with unanimous decision by committee formed by Chairperson for anomalies.
- Project outcome in any form like publications, patent, models and other intellectual properties will be property of TGPCET. However, students and mentors are allowed to publish or present their findings with due affiliation to TGPCET.
- The students will conduct the experiments utilizing the facilities available with TGPCET only. In case, any external support is required, it should be with due permission from the R&D cell only.
- The students will also provide Gio-tag photographs of the experiment.

6. Process of Receiving Grant

 The mentor will submit the requirement letter for grant to R&D cell. Based on the recommendations of Office of R&D, Principal and Vice principal will approve the grant.

7. Criteria for approval of successful project

- · Publications in reputed international journals
- Patents (From India or abroad)
- Proposal submitted for external funding from external agencies
- Project taken up by the Incubation cell at TGPCET for further support

Dean R&D will issue letters of successful completion of proposal to the team members.

8. Grievance Redressal

Applicants may register their grievances at the Office of Dean R&D at any stage of evaluation, grant utilization, review report and all the related issues. R&D office must ensure the full confidentiality and form a committee consisting of –

- · Two Senior Professors
- Two Subject Matter Expert (external or internal)
- One member nominated by the Chairman of R&D cell as per the nature of grievance (Financial, Technical etc.)

The findings will be submitted to R&D office for appropriate action under the umbrella of organization's norms and regulations.

9. R & D guidelines and Incentives for Faculty members at TGPCET Available resources:

- · Sanctioned R & D budget by the management
- · Research facility, learned supervisors and virtual labs
- Online / offline journals like IEEE, Springer, Elsevier and others
- · Well equipped research facility laboratories
- · Library, multimedia, e-journals, conference proceeding etc
- Running External funding projects
- · Centre of excellence

10. General Guidelines:

- P.G. Students / Departments must submit at least one research proposal to the external funding agency every year in the name of the institute as place of research work.
- HoD shall maintain the copy of up-to-date data regarding completed research projects, ongoing research projects, funding agencies and other resources such as AICTE, DST, UGC, CSIR, DRDO etc. The original copy must be submitted to R&D cell.
- The institute shall enter in to MoUs with research institutions such as ICAR, CBRI, CSIR, NEERI, IITs, NITs, IIIT, etc.
- The proposals shall be routed through Dean-R&D, HOD and Head of the institute.
- Each HoD must apply to UGC/DST/AICTE etc. for permission to organize indexed conference every year in which faculty/students wish to publish their research work in SOPUS/WoS journals e.g. Elsevier/Springer/ASME/ASCE/IEEE.etc.
- Whether financial assistance is sought or not, author must submit plagiarism report to Dean R & D, duly authenticated before submitting the research paper.
- Faculty should apply for travel allowance to the respective authority for obtaining subsidy under different clauses of eligibility, for applying to the management.
- The faculty must deliver a presentation to the faculty and final year students of the department.
- Attendance sheet, certificate of participation and summary should be submitted to Dean R&D and Registrar office otherwise leave account will not be settled.

- Advance if granted, should be settled within seven days from the date of return otherwise it will be deducted from the salary of the next month.
- A copy of Conference proceedings or any book presented by organizer should be submitted to the departmental library and submission slip should be attached to the bills for claim.
- · Faculty should not infringe IPR of any individual or any organization.
- Faculty shall avoid simultaneous submission of manuscripts or abstracts at multiple platforms without the approval of the editor.
- Even if financial assistance is not required, the applications for OD should be routed through R&D Cell.
- The facility of reimbursement is extended normally to the first author.
- If claim is submitted by author other than first, NOC from other author(s) is necessary.
- Claim of reimbursement should be submitted within 7 days after the event / activity.
- For permission to participate in conferences / seminars, faculty and students should submit applications complete in all respect forwarded by the R&D coordinator & HoD to R&D cell.
- The proposals for incentive to the students, should be finalized at institute level provided the attendance of student in classes is 75% and above.
- If journey is more than 900km, duty leave will be granted for half day on both sides
 in addition to duration of the event otherwise duty leave shall be only for the day of
 the event.
- R&D cell will hold minimum two meetings in a semester for discussions of all aspects.

11. Application for permission to attend Conference/Seminar before event:

- Typed application duly signed in with justification.
- Recommendation of R&D Cell, Concerned HoD and Principal.
- Leaflet / brochure of conference / seminar

- Invitation / acceptance letter.
- · Approximate break-up of probable expenditure
- Break up should cover Amount of registration fee, traveling expenses by shortest route by AC 3 tier, Lodging, Boarding, and Local travel.
- Research paper in PDF format.
- Plagiarism report generated by R&D Cell having less than 20% similarity index.

12. Application for Reimbursement Claim after event is over:

- Prior approval letter
- · Item wise actual expenses.
- · Copy of certificate of participation.
- Attendance report for the entire program
- Acknowledgement from library for having received a copy of proceeding /any book.
- Advance, if taken, should be deducted. Entry should be counter signed by Account section.
- Bank details: Account holders name, Account no, Bank and branch, IFSC code.
- Note: Reimbursement will be made exclusively online and not by cash.

13. Financial Assistance to Faculty Members & Students:

13.1 Publication in Reputed Journals

S. No.	Category	Incentives	Remark
1.	Category A: International Journals (WoS/SCI/IEEE / Springer / Elsevier / Scopus / Thomson Router and A- Grade UGC approved international Journals)	50% Registration Fees OR Max upto Rs.5000/- per semester	In case of multiple authorship, from same affiliation Institute the amount shall be equally divided.
2.	Category B: Paper Publication in SCOPUS indexed journals	25% Registration Fees OR Max upto Rs.3000/- per semester	In case of multiple authorship, from same affiliation Institute the amount shall be equally divided.

3.	UGC Care Indexed Journals	Rs.750/- per Semester	In case of multiple authorship, from same affiliation Institute the amount shall be equally divided.
4.	Category C: International Conference (Scopus/SCI Indexed/UGC care)	75% Registration Fees OR Max upto Rs.5000/- per Semester	In case of multiple authorship, the amount shall be equally divided
5.	Category D: Scopus Indexed Journal/SCI/ ESCI which is Unpaid	Rs. 3000/- as appreciation per semester	Affiliation of the Author must be in the name of College/Institute If in case multiple Authors of the same Institute the amount shall be divided equally

13.2. Attending conferences / STTPs / Workshop / Seminar by Faculty

S. No.	Category	Incentives	Remark
1.	Attending conferences / STTPs / Workshop / Seminar at National Institute such IITs, IIMs, IISc Bangalore, NITs, NIPE & RSPA, NLS etc. Deemed to be Universities, NBA / NAAC Accredited Private Institutes.	100% Registration fees OR Max upto Rs. 5000/- per semester Duty Leave as per guidelines	Registration charges include lodging and boarding arrangement provided by the organizer Otherwise He / She shall be entitled to claim accommodation charges and daily allowances as per H R policy.
2.	Local (nearby Nagpur region) Private Institutions other than listed above.	50% of Registration FeesDuty leave as per guide lines	No TA/DA applicable
3.	Attending International Conferences held abroad	 50 % of the Registration Fees (for Countries nearby India eg. Singapore, Indonesia, Bangladesh, Nepal, Sri Lanka) OR max upto Rs.15000/- 60% of the Registration Fees (for other Countries) OR max upto Rs.25000/- Duty leaves as per guide lines. 	 Minimum 05 years regular experience in TGPCET. Prior approval of the management is necessary for sanction of probable expenses. Deputation to abroad can be once in a two years.
4.	Travelling and accommodation for	TA/ DA will be provided as per HR policy after the submission of all required documents including	If candidate doesn't receive any grant from the funding agencies, then Prior approval of the

	international conferences abroad	tickets and bills of expenditure, if there is a prior approval from the management	management is necessary for sanction of probable expenses.
5.	Travelling and accommodation for international conferences in India	TA/ DA will be provided as per HR policy after the submission of all required documents including tickets and bills of expenditure, if there is a prior approval from the management	Prior approval of the management is necessary for sanction of probable expenses.
6.	Membership of Professional Society, Professional organization	 No reimbursement of membership fees Proof for prescribed membership fee is necessary 	Society / organization Membership should be related to the domain of discipline
7.	Purchase of books for Ph.D., post Ph.D., or R&D work being carried out or for M.E. / M. Tech. Projects.	 100% maximum up to Rs. 5000/- each Books shall be taken on Accession register of library 	Recommendation by HoD R&D Cell, Principal Necessary. Books will be issued to the scholar. These books issued to the scholar will have to be renewed every 3 months otherwise it will attract penalty.

13.3. Special Rewards for Faculty members

S.No.	Category	Incentives	Remark
1.	For Registration for Copyrights with the Copyright Registrar	100% of the Registration fee will be reimbursed after submission of relevant documents.	Reimbursement if it is filed in the name of College/Institute Once in a semester
2.	Indian Patent filing /Other Countries	Reimbursement of 100% Application and Exam fees. OR Max upto Rs. 4600/-	 Reimbursement if Patent is filed in the name of College/Institute. One Patent Per Semester
3.	Award of Patent	Rs. 10000/- One Per year	Reimbursed after successful Patent Grant/Award
4.	Category A: Convener/Co Convener of International Conference organized in the Institute.	 Rs. 10000/- For Covener per year Rs. 7500/- For Co Convener per year 	 For Sponsored International Conference after the Conference is successfully over. No reimbursement for National conference

5.	Category B: Convener/Co Convener of International Conference organized in the Institute.	Rs. 5000/- For Covener per year Rs. 2500/- For Co Convener per year Note:- Subjected to Profit from the Event as decided by Principal	 For Non Sponsored International Conference after the Conference is successfully over. No reimbursement for National conference
6.	Author of Standard text book on the subject from own discipline Category A: International publishers like CRC press, Pearson education, Mc Graw Hill etc Category B: Indian reputed publishers with nationwide subscription.	 Rs. 7500/- for category A Rs. 5000/- for Category B 	If published by Reputed Publisher Reimbursement will be done after complimentary copy is submitted to library
7.	Faculty Coordinator of minimum 7 days Sponsored STTP/FDP/Workshops organized in the institute	• Rs. 5000/-	Reward will be given once in a semester. Not applicable for training programs
8.	Chairing technical session of International conference at any place or invited as keynote speaker in International Conferences in India	50% of probable Expenses	Prior approval from the management is necessary Attendance certificate from organizers required
9.	In-house Resources person for STTP/FDP/Seminar/ Workshop etc.	For sponsored event, as per rule of sponsoring agency	Not applicable for students training programs

13.4. Incentives for Higher Studies for Faculty

S. No.	Category	Incentives	Remark
	Award of NPTEL/ SWAYAM	100% of the Examination fee per semester Max upto Rs. 1000/- per semester	For Elite + Gold Certification after presenting the certificate
1.		75% of the Examination fee Max upto Rs. 750/- per semester	For Elite + Silver Certification after presenting the certificate
	S.	50% of the Examination fee	For Elite Certification after presenting the certificate

		Max upto Rs. 500/- per semester	
		No reimbursement	Successfully Completed the Course
2.	Post Doctoral Study In India	 50% Salary without any allowance. Study Leave for maximum 1 years 	Deputation after approval of the Management. After return 03 years service Bond is mandatory
3.	Ph.D. from institutes of national importance such as NIT/IIT/IIM/IISC.	 50% Salary without any allowance. Study Leave for maximum 1 years 	Deputation after approval of the Management. After return 03 years service Bond is mandatory.
4.	Ph.D. from institutes other than NIT, IIT, IM, IISC etc	Study Leave (without pay) for maximum 01 years	Deputation after approval of the Management. After return 03 years service Bond is mandatory.
		100% refund of the total amount spent on the salary of the candidate during his Ph.D. program	If breach takes place during 1st year irrespective of months.
5.	Penalty in case of breach of bond executed for 3 years	75 % refund of the total amount spent on the salary of the candidate during his Ph.D. program	If breach takes place during 2 nd year irrespective of months.
		50% refund of the total amount spent on the salary of the candidate during his Ph.D. program	If breach takes place during 3rd year irrespective if months
6.	Progress Seminar of Ph.D.	Duty leave for a day of the seminar any where	No TA. /D.A. is allowed
7.	Concession for TGPCET faculty pursuing Ph.D. in TGPCET Institute	50% Concession in tuition fees	Regular faculty/staff working in TGPCET Institute for minimum 03 years.
8.	Concession for education of children of employees working in TGPCET Institutions	50% of tuition fees waived off	Applicable to Both Teaching and Non- Teaching staff. Minimum service in TGPCET should be at least 03 year
9.	Seed money for UG/PG for innovative projects	As approved by the Management	Recommendation by HoD, R&D Cell, Principal and Central level committee is required.

13.5. Financial Assistance for Students UG/PG:

S. No.	Category	Incentives	Remark
1.	Category A: International Journals (WoS/SCI/IEEE / Springer / Elsevier / Scopus / Thomson Router and A- Grade UGC approved international Journals)	100% Registration Fees OR Max upto Rs.5000/- per year	Affiliation must be in the name of College/Institute
2.	Category B: Paper Publication in SCOPUS indexed journals	100% Registration Fees OR Max upto Rs.3000/- per year	Affiliation must be in the name of College/Institute
3.	UGC Care Indexed Journals	Not Applicable	Affiliation must be in the name of College/Institute
4.	Category C: International Conference (Scopus/SCI Indexed/UGC care)	Not Applicable	Affiliation must be in the name of College/Institute
5.	Category D: Scopus Indexed Journal/SCI/ ESCI which is Unpaid	Rs. 2000/- as appreciation per semester	 Affiliation of the Student must be in the name of College/Institute. If in case multiple students the amount shall be divided equall
6.	A. Attending conferences / STTPs / Workshop / Seminar at National Institute such IITs, IIMs, IISc Bangalore, NITs, B. Deemed to be Universities, NBA / NAAC	50% of registration fee maximum upto Rs.1000/-	Affiliation must be in the name of College/Institute
	Accredited Private Institutes.	Not Applicable	
7.	Project Sponsorship for UG/PG Students	As per Academic Policy Maximum upto Rs.5000/- Per Group	For Intake of 60 max 3 Groups will be Sponsored from every Department and so on.

13.5. Incentive for External funding:

S. No.	Category	Receiver	Amount
		Principal Investigator	05 % on grants
	Financial Grants received from	Co- Principal Investigator	02 % on grants
1.	External Government funding agency such as AICTE, DST, DRDO, GOI SERB, BIRAC etc.	Head of Institute	02 % on grants
1.		HoD	01% on grants
		Administration staff	01% on grants
		R&D Cell staff	01 % on grants

Review Committee for Reimbursement:

The Idea Scrutiny committee comprising of will review all the incentive proposals:

- 1. Principal/Vice Principal
- 2. Director/Dean Academics
- 3. Dean IQAC
- 4. Dean R&D

R&D Coordinator TGPCET

DEAN

Research & Development Cell C TULSIRAMJI GAIRWAS-PATIL COLLEGE OF ENGINEERING AND TECHNOLOGY, NAGPUR

Principal /Vice Principal

Vice-Principal
TulsiRamji Galkwad Patit
College Of Engineering &
Technology, Nagpur

For Kind Information

Chairman / Treasurer Gaikwad-Patil Group of Institutions

Treasurer
Tulsiramji Galkwad-Patil
College Of Engineering &
Technology, Nagpur.

Copy to:

- 1. Hon'ble Chairman, GPG
- 2. Hon'ble Vice-Chairman, GPG
- 3. Hon'ble Treasurer, GPGI
- 4. Director Finance
- 5. All Directors
- 6. Deans
- 7. COE
- 8. All HODs/Section In-charges.
- 9. All concerned Faculty Member.

Annexure 1.0

FORMAT

FOR

SUBMISSION OF PROJECT PROPOSALS

The original Format is taken from: https://dst.gov.in/sites/default/files/Format-SSTP 0.pdf

GOVERNMENT OF INDIA MINISTRY OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF SCIENCE AND TECHNOLOGY TECHNOLOGY BHAVAN, NEW MEHRAULI ROAD NEW DELHI-110016

Annexure 1.0

FORMAT FOR SUBMISSION OF PROPOSAL

(TO BE FILLED BY APPLICANT)

A. IDENTIFICATION

1.	. Project title					
	y Words					
	** 1 100 SUBSECTION					
				• • • • • • • • • • • • • • • • • • • •		 **
2	D					
۷.	. Department:					
•	-					
3.	Broad Area					
	1. Social					
	Energy and Environment					
	3. Agriculture					
	4. Biomedical					
	Spatial/ Vocational					
	Robotics/Automization					
	7. E-commerce					
	8. Home assistance					
	Application software					
	10. Others					
4.	Duration:(number of months)					
5.	Total Cost:					
6.	Principal Investigator:					
	Name:					
	Department:					
	Designation:					
	Name of Institute:					
	Address (Including Telephone (offic	ial & resid	dence) F	-mail F	ay) Pin ·	
	,	55 1 651	Lancoj, L	man, 1	uaj i III.	
	Date of Birth:					

	Mobile	e No.(mandatory):
7.	Co-Inves	tigator (add rows for multiple co-investigators)
	Name	e:
	Desig	gnation:
	Depa	rtment:
	Name	e of Institute:
	Addre	ess: (Including Telephone (official & residence), E-mail, Fax) Pin:
	Date	of Birth:
	Sex (M/F):
8.	Facilities	at the Institution:
	(a) Exper	tise available
	C N-	In
	S.No	Description

(b) List of on-going and completed projects giving the following details.

Project Title	Start date	Completion date	Project cost	Sponsoring Agency / organization

B. TECHNICAL DETAILS

Sex (M/F):

1. Background

- · Description of problem
- · Review of work already done
- · Rationale for taking up the project
- · Relevance to State priorities
- · Financial resources at State Govt. level/Central govt. level

2. Challenge & Constraints

Please identify strengths and weaknesses of the implementer's vis-à-vis current projectin terms of technical expertise, team building, past record etc. Also list the perceived opportunities and threats and describe how PI/institution proposes to capitalize on them or avert them.

3. Description of Proposal

- Objectives of the project. (Brief and to the point)
- Preliminary Investigations done. (if any)
- Science & Technology (S&T) component in the project.
- Linkage with S&T Institutions /NGOs / resource persons / R&D organization / Industry for technical backup.
- · Other organizations working in this area
- · Methodology detailing stepwise activities and sub-activities.

4. Work Plan

Phase-wise plan of action up to post project activities detailing time schedule Milestones may clearly be indicated. PERT/GANTT chart may be attached.

5. Output of the Project

Attempt may be made to quantify output in measurable parameters.

6. Likely Impact (Please attempt to quantify)

7. Parameters for monitoring effectiveness of project

8. Suggested Post Project Activities

C. BUDGET ESTIMATES: SUMMARY

Item		BUDG	ET (In Rupees	()
	1st Year	2 nd Year	3 rd Year	Total
A. Recurring				
1. Consumables				
2. Travel				
3. Other Costs				
4. Over Head				
B. Non-Recurring				
1. Permanent Equipment				
2. Permanent Equipment				
3. Permanent Equipment				
		Grand To	tal (A+B)	**************************************

- Count six months from submission of the proposal to arrive at expected time point forcommencement of the project.
- Please provide brief justification for each head of expenditure (100 words for each).

BUDGET FOR CONSUMABLES (quantity and rate of each item should be specified)

Item	BUDGET (In Rupees)				
	1st Year	2 nd Year	3 rd Year	Total	
1.					
2.					
3.					
4.					
			Grand Total		

BUDGET FOR TRAVEL AND OTHER COST

Item		BUDO	GET (In Rupees	s)
	1st Year	2 nd Year	3 rd Year	Total
1.				
2.				
3.				
4.				

				Gran	d Total	
FORM	FOR BIODAT	A OF INV	VESTIGA	TORS		
A. Naı	ne:					
B. Dat	e of Birth:					
C. Inst	itution:					
D. Wh	ether belongs to SC	C/ST:				
F. Aw	er: lessional er: ard/prize/ certificat lication (Numbers	only):	y the invest arch Paper,			eral articles
	of completed and of	ongoing pro	rs (please sp jects		Total cost	Funding
S.No.						Agency
S.No.			From	To		0 7
S.No.			From	То		

(Name & Signature)

Date.....

	Place							
	Annexure-1.1							
	ENDORSEMENT FROM THE HEAD OF INSTITUTION							
	(TO BE GIVEN ON LETTER HEAD)							
PROJE	CT TITLE:							
1.	Certified that the Institute welcomes participation of Dr./Shri/Smt/Kmas the Principal Investigator and Dr./Shri/Smt/Km							
	unforeseen event of discontinuance by the Principal Investigator, the Co-Investigator will assume the responsibility of the fruitful completion of the project (with due intimation to DST (GOI).							
2.	Certified that the equipment, other basic facilities and such other administrative facilities asper terms and conditions of the grant, will be extended to investigator(s) throughout the duration of the project.							
3.	Institute assumes to undertake the financial and other management responsibilities of the project.							
4.	Institute will provide the infrastructure facility for the installation of the Plasma pyrolysis system for Plastic / Biomedical waste management and over take responsibility of maintaining the system after installation.							
	Name and Signature of							

Head of Institutions Principal /Vice Principal

REMARKS

In regard to research proposals emanating from scientific institutions/ laboratories under various scientific departments the Head of the institution is required to provide a justification indicating clearly whether the research proposal falls in line with the normal research activities of the institution or not and if not, the scientific reasons which merit its consideration by Department of Science & Technology.

Annexure-1.2

CERTIFICATE FROM THE INVESTIGATOR

PROJECT	Γ TITLE:	

- 1. I/We agree to abide by the terms and conditions of the DST grant.
- 2. I/We did not submit this or a similar project proposal elsewhere for financial support.
- 3. I/We have explored and ensured that equipment and basic facilities will actually be available as and when required for the purpose of the project. I/We shall not required financial support under this project, for procurement of these items.
- 4. I/We undertake that spare time on permanent equipment will be made available to other users.
- 5. I/We have enclosed the following materials.

ITEMS	NUMBER OF COPIES
Endorsement from the Head of the: Institution (on letter head)	One
Details of the proposals:	2 hard copies + 1 soft copy
Registration certificate, Memorandum of Association, rules and regulations of theInstitution, audited Balance sheet and Annual report of previous two years. (applicable only for NGOs, field groups registered societies)	

Name & Signature of Investigator

Date:

Place:

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Principal
Tulsiramji Gaikwad Patil College Of
Engineering and Technology, Nagpur





3.32 CGPA

An Autonomous Institute Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

• An ISO 9001:2015 Certified Institution

• NH7, Mohgaon, Wardha Road, Nagpur - 441108

· Web: www.tgpcet.com

• Email: principal@tgpcet.com, registrar@tgpcet.com

Contact: 97637 11372

Workshops / seminars organized during last three years

Guest Lecture	Engineers' Day 2022, Celebration				
		Dr. Srikant Annavarapu, Director, Master Geotech Services Pvt. Ltd., Nagpur.	17-9-2022	ISTE, ICI, IEI	JRD Hall
Expert Lecture	Building Information Modeling (BIM)	Er. Sarang Pimpalkar, Sr. Technical Manager, Admire Tech Vision Pvt Ltd, Nagpur	19-9-2022	ISTE, ICI, IEI	B-108
Site Visit	Site visit to CSIR-NEERI campus, Nagpur.	Dr. Prakash Kumbhare, Senior Scientist, CSIR NEERI	26-9-2022	IWWA, ISTE, ICI, IEI	CSIR-NEERI campus, Nagpur
Workshop	Two-Day Workshop on Introduction to Professional Practices in RCC Construction	Dr. S. K. Mahajan, Structural consultant and Director, Struct-e-Solutions	29-9-2022 to 30- 9-2022	ISTE, ICI, IEI	B-108
Expert Lecture	Structural Analysis, Design and Detailing of G+5 Apartment using Tekla Structural Design Software	Er. Atul K. Agade,Sr. Cadd faculty at Cadd Centre, Nagpur	13-10-2022	ISTE, ICI, IEI	B-108
Expert Lecture	Recent Technologies in Waste Water Treatment with special emphasis on Moving Bed Bio Reactor (MBBR) Technology	Dr. O. N. Mukherjee, Director ONM consultant and Vice Chairman IWWA	22.11.22	IWWA, ISTE, ICI, IEI	B-108
Expert Lecture	Adoption of Innovative Technologies for achieving Sustainable Construction goals	Dr. Nagaraj Sitaram 9739166243 drnagarajsitharam@eastpoint.ac.in	22-12-2022	ISTE, ICI, IEI	B-108
Expert Lecture	Self Healing Concrete	Dr. Shirish V. Deo 9713099399 svdeo.ce@nitrr.ac.in	23-12-2022	ISTE, ICI, IEI	B-108
Site Visit	NUVOCO VISTAS PVT. LTD. RMC Plant	Mr. Ramakrishna Sige Plant Manager, 8828022420 ramakrishna.sige@nuvoco.com	2/2/2023	ISTE, ICI, IEI	Mihan, Nagpur
Expert Lecture	Late Dr. P.R.Bhave Memorial Lecture series at Indian Water Works Association (IWWA) Nagpur Centre, Shankar Nagar, Nagpur between 7pm to 10pm	Dr. M. Dhinadhayalan, Advisor(PHEE), CPHEEO, New Delhi Dr. S.V. Dahasahasra, Member, National Task Force of 24x7 Water Supply and Expert Committee, Water Manual, MoHUA	20/2/2023	IWWA	IWWA Nagpur Centre, Shankar Nagar, Nagpur
Expert Lecture	Career Guidance in Civil Engineering Softwares	Ms. Priyanka Kawale, Ms. Anjali Khote, Mr. Omesh Athar, Software Trainer & Design Engineer, Astral Informatics (P) Ltd. Nagpur 9923021166	2/3/2023	ISTE, ICI, IEI, IWWA	B-108
	Expert Lecture Expert Lecture Expert Lecture Site Visit Expert Lecture	Site Visit Site visit to CSIR-NEERI campus, Nagpur. Two-Day Workshop on Introduction to Professional Practices in RCC Construction Structural Analysis, Design and Detailing of G+5 Apartment using Tekla Structural Design Software Recent Technologies in Waste Water Treatment with special emphasis on Moving Bed Bio Reactor (MBBR) Technology Adoption of Innovative Technologies for achieving Sustainable Construction goals Expert Lecture Self Healing Concrete Site Visit NUVOCO VISTAS PVT. LTD. RMC Plant Late Dr. P.R.Bhave Memorial Lecture series at Indian Water Works Association (IWWA) Nagpur Centre, Shankar Nagar, Nagpur between 7pm to 10pm Expert Lecture Career Guidance in Civil	Site Visit Site Visit to CSIR-NEERI campus, Nagpur. Dr. Prakash Kumbhare, Senior Scientist, CSIR NEERI Two-Day Workshop on Introduction to Professional Practices in RCC Construction Expert Lecture Structural Analysis, Design and Detailing of G+5 Apartment using Tekla Structural Design Software Expert Lecture Recent Technologies in Waste Water Treatment with special emphasis on Moving Bed Bio Reactor (MBBR) Technology Adoption of Innovative Technologies for achieving Sustainable Construction goals Expert Lecture Self Healing Concrete Site Visit NUVOCO VISTAS PVT. LTD. Site Visit NUVOCO VISTAS PVT. LTD. Late Dr. P.R.Bhave Memorial Lecture series at Indian Water Works Association (IWWA) Nagpur Centre, Shankar Nagar, Nagpur between 7pm to 10pm Expert Lecture Expert Lecture Expert Lecture Career Guidance in Civil Engineering Softwares Expert Lecture Career Guidance in Civil Engineering Softwares Dr. Prakash Kumbhare, Senior Scientist, CSIR NEERI Dr. S. K. Mahajain, Structural consultant and Director, Struct-e-Solutions Er. Atul K. Agade, Sr. Cadd faculty at Cadd Centre, Nagpur Dr. O. N. Mukherjee, Director ONM consultant and Vice Chairman IWWA Dr. Nagaraj Sitaram 9739166243 drnagaraj Sitaram 9739166243 drnagaraj Sitaram 9739166243 drnagaraj Sitaram 9739166243 drnagaraj Sitaram 9739169243 drnagaraj Sitaram 973919399 svdeo.ce@nitrr.ac.in Dr. Shirish V. Deo 9713099399 svdeo.ce@nitrr.ac.in Dr. M. Dhinadhayalan, Advisor(PHEE), CPHEEO, New Delhi Dr. S. V. Dahasahasra, Member, National Task Force of 24x7 Water Supply and Expert Committee, Water Manual, MoHUA	Site Visit Site visit to CSIR-NEERI campus, Nagpur. Dr. Prakash Kumbhare, Senior Scientist, CSIR NEERI Dr. S. K. Mahajan, Structural consultant and Director, Struct-e-Solutions Structural Analysis, Design and Detailing of G+5 Apartment using Tekla Structural Design Software Expert Lecture Expert Lecture Expert Lecture Expert Lecture Adoption of Innovative Technologies in Waste Water Treatment with special emphasis on Moving Bed Bio Reactor (MBBR) Technology Expert Lecture Expert Lecture Self Healing Concrete Dr. Nagaraj Sitaram 9730166243 drnagarajsitharam@eastpoint.ac.in Dr. Shirish V. Deo 9731090399 svdeo.ce@nitr.ac.in Dr. Shirish V. Deo 9731090399 svdeo.ce@nitr.ac.in Dr. Mr. Ramakrishna Sige Plant Manager, 8828022420 ramakrishna sige@nuvoco.com 22212223 Dr. M. Dhinadhayalan, Advisor(PHEE), CPHEEO, New Delhi Dr. S. V. Dahasahasra, Member, National Task Force of 24x7 Water Supply and Expert Committee, Water Sansociation (WWA) Nagpur Centre, Shankar Nagar, Nagpur between 7pm to 10pm Expert Lecture Expert Lecture Career Guidance in Civil Engineering Softwares Expert Lecture Career Guidance in Civil Engineering Softwares Expert Lecture Career Guidance in Civil Engineering Softwares Dr. M. Dhinadhayalan, Advisor(PHEE), CPHEEO, New Delhi Dr. S. V. Dahasahasra, Member, National Task Force of 24x7 Water Supply and Expert Committee, Water Manual, MoHUA Ms. Priyanka Kawale, Ms. Anjali Khote, Mr. Omesh Athar, Software Turiner & Design Engineer, Astral Informatics (P) Lld Nagpur	Site Visit Site V

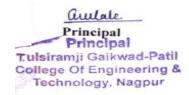
12	Forum Reinstallation	Forum Reinstallation, IWWA Student Chapter Establishment, Felicitation of Toppers, Expert Lecture on "Scope of Civil Engineers in Water Engineering"	Dr. O.N. Mukherjee Vice Chairman, IWWA Nagpur Centre 9422126526 Dr. Isha Khedikar Joint Secretary, IWWA Nagpur Centre 9890920906	3/3/2023	IWWA	B-108
13	Site Visit	Department of Civil Engineering organized Site Visit at Gosekhurd Dam, Pauni Bhandara	Mr. D. R. Patil (Junior Engineer), Ms. Sarita Harne(AE-II) and Shri. N. N. Thakare (CEA), Office- Assistant Engineer Gr-i, Gosikhurd	18.03.23	ISTE, ICI, IEI, IWWA	Gosekhurd
14	World Water Day- 2023 Celebration	Department of Civil Engineering, TGPCET received Vibrant Student chapter Award of IWWA for conducting various activities under Forum by the Hands of Dr Atul Vaidya, Director CSIR-NEERI during the world Water Day Celebration. Lecture Topic was "Accelerating change in Water And Wastewater Management"	Dr Atul Vaidya, Director CSIR-NEERI, 07122249885, 9860201457	23.03.23	ISTE, ICI, IEI, IWWA	IWWA Nagpur Centre, Shankar Nagar, Nagpur
15	Site Visit	Department of Civil Engineering organized site visit of Geological Survey by Drone Technology	Mr. Sachin Wargantiwar, (M.Sc. Technology FGGS) Ground Water Consultant at Om Ground Water Consultants	29.03.23	ARTEX Forum	VMIT Campus, Dhuti Village, Dongargaon, Nagpur
16	Wolrd Environment Day	organized a Webinar to commemorate WORLD ENVIRONMENT DAY 2021 on Topic "Water Quality Management: Impact On Water Quality Due to Covid-19 Lockdown" delivered by Dr. Sandeep Kumar Shukla, Quality Manager and Research Officer, Wainganga Division, Central Water Commission, Govt. of India.	Dr. Sandeep Kumar Shukla, Quality Manager and Research Officer,	06-06-21	ISTE.IEI & IWWA	Google Meet
17	E-Expert Talk (Webinar)	Guest Lecture: Durable-Sustainable concrete by utilization of ultra fine SCMs by Dr. Mohammad Nadeem, Vice President, Ambuja Cement, Mumbai Region under ARETX Forum in Association with ICI and IEI	Dr. Mohammad Nadeem, Vice President, Ambuja Cement, Mumbai Region	07-08-21	ICI. IEI & ISTE	Google Meet
18	E-Expert Talk (Webinar)	Department of Civil Engineering under ARTEX Forum in association with Indian Water Works Association (IWWA), ISTE & IE(I) have organized a Guest Lecture (E-Expert Talk Webinar) on Topic "Drone Technology for Environmental Engineering" delivered by Mr. Piyush Kokate, Senior Scientist, Energy & Resource Management Division, CSIR-NEERI, Nagpur.	Mr. Piyush Kokate, Senior Scientist, Energy & Resource Management Division, CSIR- NEERI, Nagpur.	08-23-21	IWWA, ISTE, IEI	Google Meet

19	Virtual Site Visit At NEERI Nagpur	Management Division	Mr. Prakash Kumbhare, Senior Principal Scientist, PRMMG	3-9-2021	IEI, IWWA	Google Meet
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Tulsiramji Gaikwad Patil College Of Engineering and Technology, Nagpur

20	E-Expert Talk (Webinar)	Guest Lecture: Introduction to HEC- RAS software by Mr. Vignesh Iyer, Associate Enginer at Stantc, Pune Region under ARETX Forum in Association with ICI and IEI, ISTE and IWWA	Mr. Vignesh Iyer, Associate Enginer at Stantc, Pune	11/9/21	ISTE.IEI & IWWA	Google Meet
21	E-Expert Talk (Webinar)	Department of Civil Engineering organised guest lecture on Concrete - yesterday today's and tomorrow" by Dr Arun Pofale, eminent professor VNIT Nagpur under ARTEX forum in Association with ICI and ISTE student chapters	Dr Arun Pofale, eminent professor VNIT	17.09.2021	ICI. IEI & ISTE	Google Meet
22	Virtual Site Visit At AIIMS Nagpur Mihan	Department of Civil engineering organised a virtual visit to AIIMS, Mihan,Nagpur. Mr. Sachin Motghare, Project Manager, guided this complete visit to following 1) Academy south building construction 2) Materials used for Aesthetic view, 3) Materials used for road construction 4) Environmental friendly construction. very well coordinated by Prof. Priyanka Petkar	Mr. Sachin Motghare, Project Manager	25-9-2021	IEI, ICI	Google Meet
23	E-Expert Talk (Alumni Webinar)	Depart of Civil Engineering started *Alumni webinar series* under ARTEX forum in association with IEI and ISTE. Today 1st webinar conducted by an successful entrepreneur and Alumni of our PG (M-Tech structure) Programme Er. Yamini Dadwe, Director, Accurate Megastructure, Nashik. on topic 'Advances in Pre- Engineered Structures. All the students from UG and PG programme attended the webinar	Er. Yamini Dadwe, Director, Accurate Megas	28.09.2021	ICI. IEI & ISTE	Google Meet
24	E-Expert Talk (Alumni Webinar)	Civil Engineering Department organized an E-Expert Talk (Alumni webinar) on "Career in Interior Designing & Opportunities" under ARTEX Forum in association with ISTE and Institution of Engineers (India), Indian Concrete Institute (ICI) September 17th: Civil Engineering Department of Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur organized an E-Expert Talk (Alumni webinar) on "Career in Interior Designing & Opportunities" delivered by Ms. Harsha Rambhade, Interior Designer, Ambience Home, Nagpur.	Ms. Harsha Rambhade, Interior Designer, Ambience Home, Nagpur.	17.09.2021	ICL IEI & ISTE	Google Meet
25	Offline Site Visit	Site Visit to "Construction of double railway track"		03.12.2021	ARTEX Forum in association with ISTE & IE(I).	

26	Workshop	All India Workshop on "Application of Advanced Surveying Instruments"	20.12.2021	ARTEX Forum in association with ISTE & IE(I).	Offline B-108
27	Site Visit	Site Visit to "Sewage Treatment Plant, Bhandewadi	3/12/2022	ARTEX Forum in association with ISTE & IE(I).	Offline B-108
28	Site Visit	Site visit IIM Mihan	3/12/2022	ARTEX Forum in association with ISTE & IE(I).	IIM Mihan
29	Expert Lecture	Department of Civil Engineering organizes Guest lecture on Irrigation Planning, Yield Studies and simulation	22-03-2022	ARTEX Forum in association with ISTE, IE(I) & IWWA.	Offline B-108
30	ARTEX Forum reinstallation	Civil Engineering Department organized a Guest Lecture on topic "Design Considerations for Kolhapur-type Weirs on Rocky & Soft Foundations" under ARTEX Forum in association with Student Chapters of ICI, ISTE & IE(I)	22-04-2022	ARTEX Forum in association with Student Chapters of ICI, ISTE & IE(I)	Offline B-108





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INDIAN SOCIETY FOR TECHNICAL EDUCATION, (ISTE)

Interdepartmental Project Competition		
Project Competition on Centralized Level	Planned/Unplanned:	Planned
18thMay,2023	Timing of Event	11:00 AM
All	Semester:	All
Centralized ISTE		
Prof Darshika A. Khawase and Prof. Kushal Masarkar		
130		
	Project Competition on Centralized Level 18th May, 2023 All Centralized ISTE Prof Darshika A. Khar	Project Competition on Centralized Level 18th May,2023 Timing of Event All Semester: Centralized ISTE Prof Darshika A. Khawase and Prof. Kushal

Brief Report/ Summary of Activity:-

Interdepartmental Project Competition: "TANTRA-VIGYAN"

Date: 18th May 2023

Chief Guest: Mr. Bhupendra Ukinkar (Director "Wings Tech", Nagpur)

Mr. Manish Maokar (Manager "D.S. Electricals", Nagpur)

Mr. Suraj Ghodmare (Salesforce Developer "Price Waterhouse Coopers",

Nagpur)

Organized by: ISTE STUDENT CHAPTER (TGPCET)

Aim: The competition aimed to foster creativity, innovation, and collaboration among participants, showcasing their skills and abilities in various fields. This workshop was organized specially for The students under ISTE Student Chapter.

Objective:

- The project competition had the following primary objectives:
- Encourage Students to develop innovative solutions to real-world problems,
- Promote teamwork and collaboration among participants.
- Provide a platform for participants to showcase their skills and ideas.
- Foster a competitive spirit and drive for excellence.
- Encourage participants to develop and showcase their innovative ideas and solutions.
- Promote collaboration and interdisciplinary approaches to problem-solving.
- Provide a platform for participants to gain recognition for their work and network with industry professionals.
- Inspire and motivate participants to pursue their passions and entrepreneurial endeavors.

About the Event:

To enhance the performance level in 16TE of all the Students members and to stay into rative and



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motivated. ISTE of TGPCET organized Interdepartmental Level project competition focused on programs organized under the umbrella of the International Society for Technology in Education (ISTE). The competition aimed to showcase innovative and impactful programs developed by participants that align with ISTE's mission and goals. This report highlights the objectives, structure, participants, outcomes, and overall impact of the program competition.

Track of Events:-

Project Competition is Categorized into Four Tracks such as

- 1. Electronics and Communication & Electrical Engineering Department
- 2. Computer Science Engineering & Information Technology Department
- 3. Civil Engineering Department
- 4. Mechanical Engineering Department

Participants: The project competition attracted a diverse range of TGPCET students of 3rd Year and Final Year of Various Branches of engineering in Electronics and Communication Engineering, Mechanical Engineering, Computer Science Engineering, Information Technology, Civil Engineering, Electrical Engineering. Students Teams consisted of two to five members, and each team had a designated leader responsible for project coordination.

Evaluation Criteria: The Participants project were evaluated based on several Judging criteria, including:

Creativity and innovation: How unique and original were the proposed solutions?

Feasibility: Were the proposed solutions realistic and achievable?

Impact: What potential impact could the project have on society or a specific target audience?

Presentation: How effectively were the ideas communicated and presented? The finalists presented their projects to a panel of judges, which included experts from relevant fields.

Outcomes of Event: The project competition yielded several positive outcomes and had a significant impact:

Generation of innovative ideas: The competition sparked the development of numerous creative solutions to real-world challenges, addressing a wide range of issues from environmental sustainability to



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healthcare and technology.

Collaboration and networking: Participants had the opportunity to collaborate and network with likeminded individuals, fostering new connections and potential future partnerships.

Skill enhancement: The competition provided participants with a platform to enhance their problemsolving, teamwork, and presentation skills.

Exposure and recognition: Finalists gained visibility and recognition for their work, both within the competition and among industry professionals who attended the event.

Clear communication: Improved communication throughout the competition could enhance participant engagement and understanding of the evaluation criteria.

Feedback mechanism: Implementing a structured feedback system for participants would enable them to learn from the evaluation process and improve their future projects.

PO6	The Engineer and Society
PO7	Environment and Sustainability
PO8	Ethics
PO9	Individual and Team Work
PO10	Communication
PO12	Life Long Learning
NAAC3.3.1 Sensitizing students to social issues, for their holistic development, an impact there of during the year	
NAAC7.1.8	DescribetheInstitutionalefforts/initiativesinprovidinganinclusiveenvironmenti.e.,toleranceandharmonytowardscultural,regional, linguistic, communal socio economic and other diversities

Diverse judging panel: Including judges from diverse backgrounds and expertise ensures a wellrounded evaluation process and encourages a broad range of perspectives.

Conclusion: The project competition successfully achieved its objectives of promoting innovation, collaboration, and problem-solving skills among participants. The event generated creative solutions, fostered collaboration, and provided recognition for the finalists. By implementing the lessons learned, future iterations of the competition can be further improved, contributing to the growth and development of participants in their respective fields.





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Glimpses of Event:-







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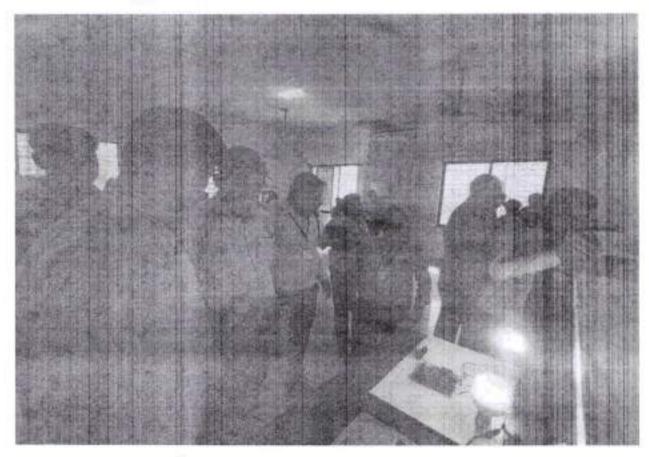




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MJI GAIKWAD-PATIL Engineering & Technology

AN AUTONOMOUS INSTITUTE



TANTRA-VIGYAN-2023

INTER-DEPARTMENTAL LEVEL PROJECT COMPETITION Organized By

ISTE Student Chapter TGPCET In Association with



Indian Society for Technical Education

Chief Guest

18" May 2023 | 11:00am to 04:00pm

Amazing Prizes

Medal's & Certificate

Contact us:

Shubham Khare

Alahwarya Dohare Anuja Parte

9920849505

9920849505

Darshana Charde :

7499338219

Poojs Sonswans

8999381711

Yash Chandel

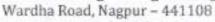
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MCA | Diploms | D. Pharm | B. Pharm | B.Sc Nursing | Physiothera

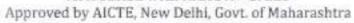
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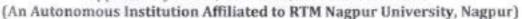
Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur













INDIAN SOCIETY FOR TECHNICAL EDUCATION, (ISTE)

Activity:	Central Level I Project Competition		
Activity Type:	Project Competition on Centralized Level	Planned/Unplanned:	Planned
ActivityDate:	9th June,2023	Timing of Event	12:00 Noon
Branch:	All	Semester:	All
Organizing Department:	Centralized ISTE		
Faculty Convener:	Prof Darshika A. Khawase and Prof. Kushal Masarkar		
No. of Participant:	45		

Brief Report/ Summary of Activity:-

Central Project Competition: "TANTRA-VIGYAN"

Date: 9th June,2023 Guest: Mr. Ashok Wathore

Industry Expert (B.TECH in ME, IIT Mumbai

PGD IN Industrial Engineering, NITIE Mumbai)

Organized by: ISTE STUDENT CHAPTER (TGPCET)

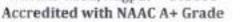
Aim: The competition aimed to foster creativity, innovation, and collaboration among participants, show casing their skills and abilities in various fields. This workshop was organized specially for the students under ISTE Student Chapter. Central Level Project Competition for Selection of the Top 3 Projects from the Total 15 Finalized Projects under Interdepartmental Level Project Competition held on 18th May 2023.

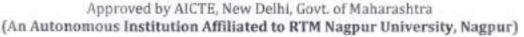
We have received an overwhelming response with a Finalize total of 15 exceptional projects submitted by various departments.

Considering the importance of recognizing and encouraging outstanding talent within our organization, we have decided to select the Top three projects that demonstrate exceptional innovation, feasibility, and potential impact. The selected projects will not only receive recognition but also stand a chance to be implemented on a larger scale for the benefit of our organization.



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INDIAN SOCIETY FOR TECHNICAL EDUCATION, (ISTE)

Objective:

The project competition had the following primary objectives:

- · Encourage Students to develop innovative solutions to real-world problems.
- Promote teamwork and collaboration among participants.
- · Provide a platform for participants to showcase their skills and ideas.

About the Event:

To enhance the performance level in ISTE of all the Students members and to stay innovative and motivated. ISTE of TGPCET organized Central Level project competition focused on programs organized under the umbrella of the International Society for Technology in Education (ISTE). The competition aimed to showcase innovative and impactful programs developed by participants that align with ISTE's mission and goals. This report highlights the objectives, structure, participants, outcomes, and overall impact of the program competition.

Track of Events:-

We have received an overwhelming response with a Finalize total of 15 exceptional projects submitted by various departments.

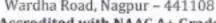
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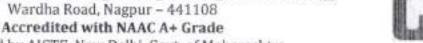
Participants: The project competition attracted a diverse range of TGPCET students of 3rd Year and Final Year of Various Branches of engineering in Electronics and Communication Engineering, Mechanical Engineering, Computer Science Engineering, Information Technology, Civil Engineering, Electrical Engineering. Students Teams consisted of two to five members, and each team had a designated leader responsible for project coordination.

Evaluation Criteria: The Participants project were evaluated based on several Judging criteria, including:



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INDIAN SOCIETY FOR TECHNICAL EDUCATION, (ISTE)

Creativity and innovation: How unique and original were the proposed solutions?

Feasibility: Were the proposed solutions realistic and achievable?

Impact: What potential impact could the project have on society or a specific target audience?

Presentation: How effectively were the ideas communicated and presented? The finalists presented their projects to a panel of judges, which included experts from relevant fields.

Outcomes of Event: The project competition yielded several positive outcomes and had a significant impact:

Generation of innovative ideas: The competition sparked the development of numerous creative solutions to real-world challenges, addressing a wide range of issues from environmental sustainability to healthcare and technology.

Collaboration and networking: Participants had the opportunity to collaborate and network with likeminded individuals, fostering new connections and potential future partnerships,

Skill enhancement: The competition provided participants with a platform to enhance their problemsolving, teamwork, and presentation skills.

Exposure and recognition: Finalists gained visibility and recognition for their work, both within the competition and among industry professionals who attended the event.

Clear communication: Improved communication throughout the competition could enhance participant engagement and understanding of the evaluation criteria.

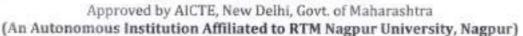
Feedback mechanism: Implementing a structured feedback system for participants would enable them to learn from the evaluation process and improve their future projects.

PO6	The Engineer and Society
PO7	Environment and Sustainability
PO8	Ethics
PO9	Individual and Team Work
PO10	Communication
PO12	Life Long Learning



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Diverse judging panel: Including judges from diverse backgrounds and expertise ensures a wellrounded evaluation process and encourages a broad range of perspectives.

Appreciation of Participants: TGPCET ISTE Student's chapter express appreciation and recognition of students Skills and efforts by congratulating all participants with trophy and Certificates.

Conclusion: The project competition successfully achieved its objectives of promoting innovation, collaboration, and problem-solving skills among participants.

The program was inaugurated by the hands Chief Guest and judge Hon'ble Mr.Ashok Wathore, Industry Expert, Dr. Sandeep Gaikwad, Treasurer GPGI, faculty and students.

Following Three Best projects were selected in college level .

First Rank Ms. Bharti Khande & group (IT)

2nd Rank- Mr. Aditya Patil & group (ECE)

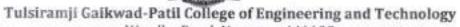
3rd Rank- Mr. Suraj Bhagat & Group (EE)

The program was organised under the guidance of Dr. G. K. Awari, AICTE, Margdarshak, Prof. Pragati Patil, Vice Principal TGPCET Prof.Ritesh Banpurkar, Dean IQAC. The program was coordinated by Juhi Ramteke. Vote of thanks was proposed by Abu-Lobana Zaidi.

The event generated creative solutions, fostered collaboration, and provided recognition for the finalists.

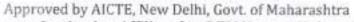
By implementing the lessons learned, future iterations of the competition can be further improved, contributing to the growth and development of participants in their respective fields.





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INDIAN SOCIETY FOR TECHNICAL EDUCATION, (ISTE)

THE GLIMPSES EVENT



"Inauguration & Lighting of Ceremonial lamp"



Wardha Road, Nagpur - 441108



Approved by AICTE, New Delhi, Govt. of Maharashtra (An Autonomous Institution Affiliated to RTM Nagpur University, Nagpur)



INDIAN SOCIETY FOR TECHNICAL EDUCATION, (ISTE)



"Inauguration of Event Central Level Project Competition"



" Address by Chief Guest in College Level Project Competition"





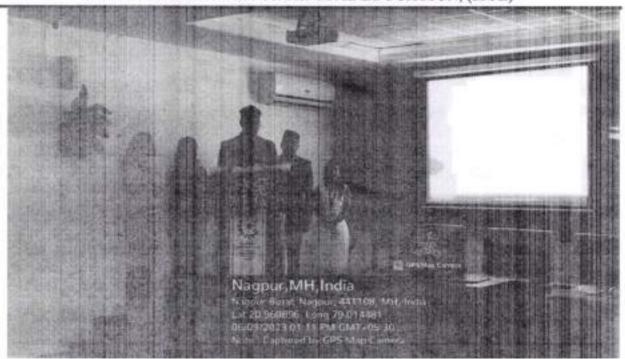
Wardha Road, Nagpur - 441108

Accredited with NAAC A+ Grade

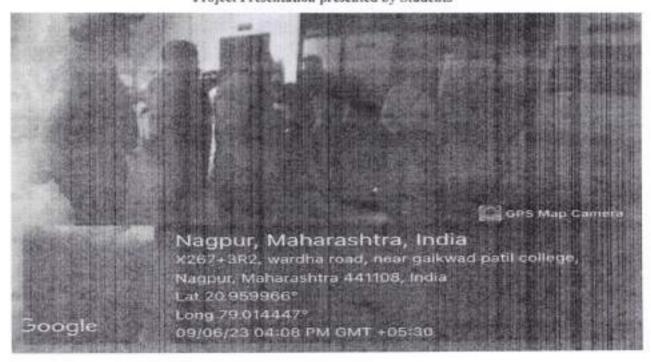
Approved by AICTE, New Delhi, Govt. of Maharashtra (An Autonomous Institution Affiliated to RTM Nagpur University, Nagpur)



INDIAN SOCIETY FOR TECHNICAL EDUCATION, (ISTE)



"Project Presentation presented by Students"



"Judges" Evaluating Projects"



THE Indian Society of Technical Education (ISTE), TGPCET Student Chapter, organised central-level project competition for students of TGPCET at JRD Tata Hall. The programme commenced with an inaugural ceremony graced by the chief guest and Judge. Ashok Wathore, an industry expert, and Dr Sandeep Galkwad, Trensurer GPGI, along with faculty members and students. The Judges carefully evaluated each project based on its technical merit, innovation, and practical applicability. After a rigorous evaluation process, the Judges announced the three best projects from the college level. The winners of the central-level project competition are: - First: Bharti Khande & group (IT), Second: Aditya Patil & group (ECE), Third: Suraj Bhagat & group (EE). The successful organisation of the competition was done under guidance of Dr G K Awart, AICTE Mangdambak, Prof Pragati Patil. Vice-Principal TGPCET, and Prof Ritesh Banpurkar, Dean, IQAC.

"A News of Central Level Project Competition "TANTRA-VIGYAN- 2023" Organized by ISTE TGPCET Student Chapter Published in The Hitavada on dated 12-06-2023."

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LOKMAT SETTIMES

लोकामत



Community News



Winners of project group category in inter-department project competition being presented first prize.

Tantra Vigyan-2023 inter-dept competition held at TGPCET

The Tantra Vigyan-2023 Inter Departmental Level Project Competition was held at Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET), Nagpur reently, Project with title 'Deentralised Boosystem for NFTs Transaction Using Blockchain Technology of the IT Department won first place in the competition. The project was designed and implenented by a group of final year students Ketan Dabre. Sagar Wandile, Bharati Harnkhede and Valshall Ajbuile ander the guidance of . Poonam Keche, Assistant Proessor, Department of IT. The

winners of the competition were presented medals and certificates with the hands of guest and judge of event industry expert Ashok Wathere. Chairman of GPGI Dr Mohan Gaikwad motivated to organize the event. Prof Sandeep Galkwad, vice-principal Prof Pragati Patil, director (academics) Dr Suresh Salankar, dean (academics) Prof Anup Gade, dean (IQAC) Prof Ritesh Banpurkar and coordinator of ISTE chapter Prof Darshilta Khawase, was present during the programme. All faculty coordinators of ISTE chapter took efforts to successfully conduct the event.

धायांकित

माझा जिल्हा

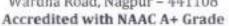
नावीन्यपूर्ण प्रयोग बघून तज्ज्ञांकडून विद्यार्थ्यांवर कौतुकाचा वर्षाव

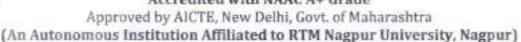


गुमगाव : इंडियन सोसायटी ऑफ टेक्निकल एज्युकेसन (आयएसटीई),
स्टुडेन्ट्स चंटर आणि तुळशीरामऔं गायकवाड पाटीस अभिगतिकी व तंत्र
महाविद्यालयाच्या वतीन मोहगाव येथील डॉ. जेआरडी टाटा सभागृहात केंद्र
स्तरीय प्रकल्प स्पर्धेचे आयोजन करण्यात आले होते. स्पर्धेचे उदघाटन
उद्योजक अशोक वाठोरे, कोपाण्यक्ष डॉ. संबीप गायकवाड यांच्या हस्ते झाले.
यांतेळी परीक्षकांनी विद्याल्यीशी संवाद साधला. परीक्षक व पाहुण्यांनी प्राचीक
प्रकल्पाचे तांत्रिक गुणवांत्रेवर आधारित, नावीन्यपूर्णता आणि व्यावहारिकता
यावर आधारित काळजीपूर्वक मुल्यांकन केले. कठार मूल्यमापन प्रक्रियेनंतर
परीक्षकांनी महाविद्यालयीन स्तरावरील तीन सर्वोत्तम प्रकल्पांची घोषणा
केली. केंद्रीय स्तरावरील प्रकल्प स्पर्धेचे विजेते म्हणून प्रथम क्रमांक भारती
खांडे गट (आयटी), द्वितीय क्रमांक आदित्य पाटील गट (इंसीई), तर दिसरा
क्रमांक सूरज भगत गट (इंई) यांना प्रदान करण्यात आला. स्पर्धेच्या
आयोजनासाठी डॉ. जी. के. आवारी, उपप्राचार्य आ, प्रगती पाटील,
आयवायुएसीचे डीन प्रा. रितेश बनपुरकर यांनी परिश्रम घेतले. जुही रामटेके
यांनी सूत्रसंचालन केले, तर अबू लोबाना झैदी यांनी आभार मानले.



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INDIAN SOCIETY FOR TECHNICAL EDUCATION, (ISTE)



DEAN IQAC

Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur

Principal

Tulsıramji Gaikwad Patil College Of Engineering and Technology, Nagpur