



DTE Code: 4151

www.tgpcet.com

TULSIRAMJI GAIKWAD-PATIL
College of Engineering & Technology

— AN AUTONOMOUS INSTITUTE —



Session 2024-25

**DEPARTMENT OF
CSE - DATA SCIENCE**

VEDA

Visualizing and Enriching Data Analytics

NEWSLETTERS



Newsletter Designed The Department
CSE - Data Science Under FORUM



CSE - DATA SCIENCE

VOLUME 10 | ISSUE 24

JULY-DECEMBER 2024-25 | @DATA ZOIDS



TGPCET

Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET) was established in the year 2007 by Vidarbha Bahu-uddeshiya Shikshan Sanstha (VBSS), a registered society. It is a self-financed Private Engineering College and is approved by All India Council for Technical Education, New Delhi. Also, the college is approved by Directorate of Technical Education (DTE), Mumbai, Maharashtra State. The Institute is Accredited with A+(3.32 CGPA) by NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC). An Autonomous Institute affiliated to RTM Nagpur University, Nagpur.

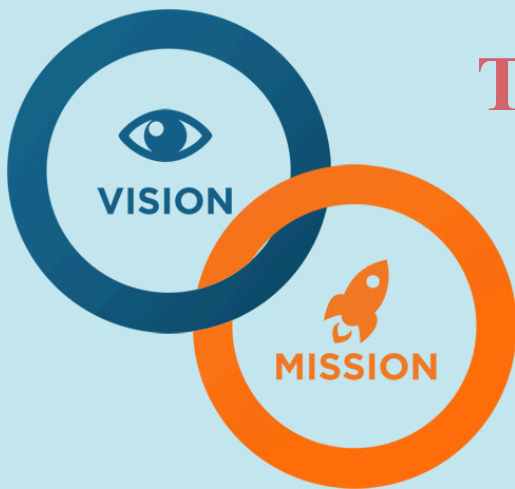


Department of CSE- Data Science

The Data Science Engineers play a crucial role in the organization, working together with Data Scientists and Data Analysts to assist businesses solve complicated challenges and make decisions with a strong business sense. The program's goal is to focus on fundamental topics in data science, such as analytics, visualization, modelling, knowledge representation and machine learning.



VISION & MISSION OF THE INSTITUTE



VISION

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

MISSION

[M1] To strive for rearing standard and stature of the students by practicing high standards of professional ethics, transparency and accountability.

[M2] To provide facilities and services to meet the challenges of Industry and Society.

[M3] To facilitate socially responsive research, innovation and entrepreneurship.

[M4] To ascertain holistic development of the students and staff members by inculcating knowledge and profession as work practices.

VISION & MISSION OF THE DEPARTMENT



VISION

To emerge as Learning Center of Excellence in the National Ethos in To emerge as a Center of proficiency in Data Analytics and Create professionals in the field of Data Analytics and Machine Learning.

MISSION

[M1] Develop innovativeness and create skillful expertise in the field of Data Science.

[M2] Inculcate the seed of knowledge among students in order to excel in Data driven world.

[M3] Provide excellent computing facility to nurture the young professional for lifelong learning.

[M4] Create a socio-disciplinary attitude and acquire professional ethics among young upcoming professionals.

PROGRAM OUTCOMES

Engineering Graduates will be able to:

- 1.Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 2.Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- 3.Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- 4.Conduct investigations of complex problems: Use research based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- 5.Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
- 6.The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- 7.Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- 8.Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 9.Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 10.Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- 11.Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- 12.Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

PSO OF THE DEPARTMENT

Program Specific Outcomes

PSO 1- Provide graduates with the abilities they need to develop and apply knowledge of Data Science in a range of settings, from complex autonomous systems to vision.

PSO 2 - Analyze enormous amounts of data to uncover previously unknown patterns, relationships, and insights; help businesses use their data to uncover novel opportunities.

PSO 3 – Develop the skills necessary to produce innovative products that use cutting-edge technology and practical knowledge to solve real-world problems.

PEO OF THE DEPARTMENT

Program Educational Objectives

PEO1: Apply data science to create and resolve challenging statistical and multidisciplinary issues to meet the changing needs of the global industrial sector.

PEO2: Engage in advanced research, development, and other innovative initiatives in the field of emerging trends.

PEO3: Increase stakeholder satisfaction by employing their expertise in a morally and professionally responsible manner.

DEPARTMENT OF CSE- DATA SCIENCE



Prof. Abhimanyu Dutonde
(HOD, CSE-DS)

Welcome to the Department of Computer Science and Engineering-Data Science of Tulsiramji Gaikwad-Patil College of Engineering and Technology Nagpur. We started our journey in the year of 2021. Over the last 3 years, we have grown our Expertise & competence in the core data analytics and science curriculum. The primary focus of our curriculum is to impart technical know-how to students, promote their problem solving skills & innovation of new technologies. The students are encouraged to undertake various research projects. We have state of the art research facilities in the constitution with industry to support our academic programs.

DEPARTMENT OF CSE- DATA SCIENCE

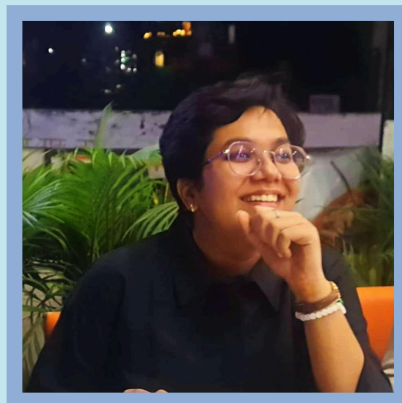
EDITORIAL COMMITTEE



Prof. Abhimanyu Dutonde
(Chief Editor, CSE-DS)



Prof. Priyanka Kanoje



Ms. Devanshi Shingade



Ms. Nidhi Meshram



Mr. Shubham Ambore



Ms. Mrunali Hedao

CONTENTS

1. TECHNICAL ACTIVITIES

1.1 Forum Re-installation

1.2 Guest Lecture

1.3 Technical Quiz Competition

1.4 Poster Representation

1.5 News Articles

1.1 FORUM RE-INSTALLATION, VEDA- 2K24

Name of the event: Forum Re-installation 2K24

Date of the event: 02 August, 2024

Event Coordinator: Prof. Sayara Bano Sheikh

Venue: JRD Tata Hall, TGPCET

Participants: 115 students .

Activities: Guest Lecture, Dance & Singing Competition

Aim of the Event:

The overall development of students of CSE- Data Science and through the guest lecture, the students get idea about “How to succeed in IT companies in the trend of AI”.

Program Details:

The Computer Science and Engineering – Data Science

Department of Tulsiramji Gaikwad - Patil College of Engineering

and Technology recently organized Guest Lecture and program of

Forum Re-installation named VEDA on Friday, 2nd August, 2024

for the students. The guest lecture is delivered by Mr. Sumit

Pathak (Senior Manager, Global Logic, Nagpur) in JRD Tata

Hall, TGPCET and the program was anchored by Ms.

Nikita Ukinkar, Ms. Pooja Pardhi students of CSE- Data Science

department.

The program was started at 11:00 am and divided into three sessions: 1) Felicitation of toppers and providing batches to forum members, 2) Guest lecture on "How to Succeed in IT Industry", 3) Cultural program organized by Department of CSE-Data Science.

Outcomes :

- This program will help the students for overall development in academic way with freshness of mind and enthusiastically increasing their confidence as required.
- Also the outcome of this program on "How to Succeed in IT Companies" can be multifaceted, providing students with valuable insights, practical tips, and motivation for thriving in the IT industry.

Conclusion:

- The successful reinstatement of the program for engineering students in the Data Science department with completion of activities.
- This platform will serve as a hub for sharing ideas, discussing cutting-edge topics, and addressing academic and professional challenges and engagement will ensure its relevance and effectiveness in enhancing the learning experience of all its members.

GLIMPSES OF THE EVENT



Forum Members
VEDA-2K24



Falicitation to student
topper by guest,
Mr. Pranav Kotalwar
(3rd sem,Second Year)

Falicitation to the Guest,
(Senior Manager, Global Logic, Nagpur)
by HOD(CSE- DS)



GLIMPSES OF THE EVENT



Hosted by Mr. Sumit Pathak (Senior Manager, Global Logic, Nagpur)



Students, 2nd year



Falicitation of Toppers at JRD TATA Hall , TGPCET

1.2 GUEST LECTURE

Name of the event: ‘Standard Practices followed in IT Companies ‘

Date of the event: 27 , July 2024

Event Coordinators: Prof. Apeksha Raut, Prof. Priyanka Kanoje

Venue: Aryabhatya Hall, TGPCET

Participants: 99 students

Aim of the Event:

The lecture aims to aware students about software skills required for IT Companies and essential for mastering tools, programming languages, and techniques that enable effective data analysis, modeling, and problem-solving in real-world scenarios."

Program Details:

The Computer Science and Engineering–Data Science Department of Tulsiramji Gaikwad-Patil College of Engineering and Technology recently organized a expert lecture on “Standard Practices followed in IT Companies for End to End Software development” for the students. The expert lecture is delivered by Mr. Smit Choudhary.

In this lecture, expert share’s the information about the dynamic field of software development in IT companies adhere to a set of standard practices to ensure the delivery of high-quality software products. The purpose of this expert lecture was to understand the functioning of end to end software development and grab the placement and internship opportunities in IT Industries.

GLIMPSES OF THE EVENT



Participants in Aryabhatya Hall



**Lecture delivered by
Mr. Smit Chaudhary**

(Project Manager at Tech Mahindra, Nagpur)

Succeed In IT

आयटी उद्योगासाठी आवश्यक सॉफ्टवेअर कौशल्यांबद्दल विद्यार्थ्यांना जागरूक करणे हा तज्ञव्याख्यानाचा उद्देश आहे. प्राध्यापकांच्या व्याख्यानात एकूण ९९ विद्यार्थी सहभागी झाले होते, या कार्यक्रमाचे सूत्र संचालन प्रा. अपेक्षा राऊत आणि प्रा. प्रियंका कनोजे यांनी केले. कार्यक्रमाचे सूत्र संचालन कु.निधी मेश्राम यांनी केले. IT कंपन्यांमधील सॉफ्टवेअर डेव्हलपमेंटच्या डायनॅमिक क्षेत्राविषयीची माहिती तज्ञ शेअर करते जे उच्च-गुणवत्तेच्या सॉफ्टवेअर उत्पादनांची डिलिव्हरी सुनिश्चित करण्यासाठी मानकपद्धतींच्या संचाचे पालन करतात. या तज्ञव्याख्यानाचा उद्देश सॉफ्टवेअर डेव्हलपमेंटचे शेवटचे कार्य समजून घेणे आणि आयटी इंडस्ट्रीज मधील प्लेसमेंट आणि इंटरनशिपच्या संधी मिळवणे हा होता.

1.3 TECHNICAL QUIZ COMPETITION ON ENGINEER'S DAY

Name of the event: Tech Xplore Quiz Competition

Date of the event: 19 September, 2024

Event Coordinator: Prof. Apeksha Raut

Venue: Aryabhatya Hall, TGPCET

Participants: 79 students .

Activities: Technical Quiz Competition on C++

Student's Coordinator:- Ms. Nidhi Meshram

Program Details:

Department of CSE-Data Science has organized technical programs on the occasion of “Engineering’s day” in the college campus Tulsiramji Gaikwad-Patil College of Engineering and Technology as “ Tech Xplore Quiz Competition” on date 19th September 2024.

The Tech Xplore Quiz Competition was conducted to engage participants in the field of technology, enhance their knowledge, and promote interest in emerging technological trends.

The Tech Xplore Quiz Competition Was conducted to engage participants in the field of technology, enhance their knowledge, and promote interest in emerging technological trends.

Conclusion:

All are responding very well and providing a platform for participants to enhance their knowledge and skills in technology. The event fostered a sense of community and encouraged further exploration of the field.

GLIMPSES OF THE EVENT



**Winners 🏆
of
Tech Xplore
Quiz Competition**

**Engineers Day
Celebration
by IEI & ISTE Student
Chapter**



SPORTS ACTIVITIES

Sr. No.	Name of Student	Name of Sport	Level Sport (International /National/state/University)
1	Darshan Manohar Rathod	Volley Ball	University
2	Darshan Manohar Rathod	Badminton	Intercollege University
3	Parnika Tulsidas Bhalavi	Volley Ball	University
4	Dipanshu Narendra Warhade	Kabaddi	University

1.4 POSTERS REPRESENTATION



Submitted by: Ms. Pooja Pardhi

Submitted by: Mr. Dino R. Kawade





Submitted by:
 Ms. Vanashri Kumbhalkar
 (Final Year Student)



Submitted by: Ms. Vaishnavi Kohale (Final Year Student)

STUDENT'S CORNER

कॉलेज कॅम्पस

आलो कसा इथे कळालच नाही,
छान लोक मनात कसे बसले कळालच नाही,
परीक्षे आणि कॅंप मुळे आलो एवढा दूर,
पण दुरावा आता मानवत चालला आहे.

बघून आधी कॉलेज सोडून, पळून जावे वाटले होते,
वातावरण आणि भाषा बघून करमानासे झाले होते,
विचार आणि तरंग मिसळणासे झाले होते,
अडकलो एका जाळ्यात असे भासू लागले होते.

पण आता स्वतःला थांबा वून शिकावेसे वाटते,
ह्या वातावरणात मिसळावे सुद्धा वाटते,
तुमच्या सारख्या छान-छान लोकांमध्ये राहू सुद्धा वाटते,
छान प्रेमाने आणि आनंदाने जगावे सुद्धा वाटते.

आता काहीतरी विचारांना प्रेरणा द्यावी वाटते,
शिकवून नवीन नवीन प्रगती करू करू वाटते,
थांबवून negativity ला मन शांत करू वाटते,
आणी कॉलेज जीवनाला भर-भरून जगू सुद्धा वाटते.

मन

का कुणास ठाऊक आज क्षणभर थांबावस वाटत
हरवल मन पुन्हा शोधावस वाटत
अशांत मन हे शांत करावस वाटत
होऊन अपेक्षाशून्य चिंतामुक्त व्हावस वाटत.

थांबऊन धडपड सारी आज स्तब्ध व्हावस वाटत
भरल्यापोटी शांत निजावसं वाटत
आज जन्म आणि मृत्यू अंतर विसरावसं वाटत
का कुणास ठाऊक आज थोडंसं प्रेम स्वतःवर करावसं वाटत.

इच्छा

कधी वाटतं सोडून द्यावं सगळ,
परत वळून कशालाही न बघाव.

पेरलेल्या असतात वाटेत अनेक अडचणी,
तरीही सामोरे जावे लागते मनाला वेदना देत ही.

कधी तरी आणि कुठे तरी थांबावस वाटत,
वेदना वाढू नये म्हणून परत चालावं सुद्धा लागत.

भरून येते मन जेव्हा मनुष्य स्तुती मागे पाळतो असतो,
निंदा असणाऱ्या जीवनाकडून पळ काढण्याचा प्रयत्न करत असतो.

स्पर्धेच्या जीवनाकडून थोडासा बाहेर निघावेसे वाटत,
निघवून ही बाहेर स्पर्धेच्या स्वतःला स्वतःकडे बघावस वाटत.

चालता चालता मिळाली असेल अनेक स्वप्न जिवणालही,
थांबवून पावले सारी ती परत मागे फिरावस वाटत.

निराशा सोडून सारी परत आशा शोधाविसी वाटते
परत एकदा जीवनाच्या तालमीत स्वतःला सिद्ध करावस वाटत.

सुटलेल्या आणी हरवलेल्या लोकांना परत जीवनात आणावस वाटत,
आनंदाने भरलेल्या त्या जीवनात गोड- गोड हसावस वाटत.

Submission by: Shubham
Ambhore, Third Year

Thank You !