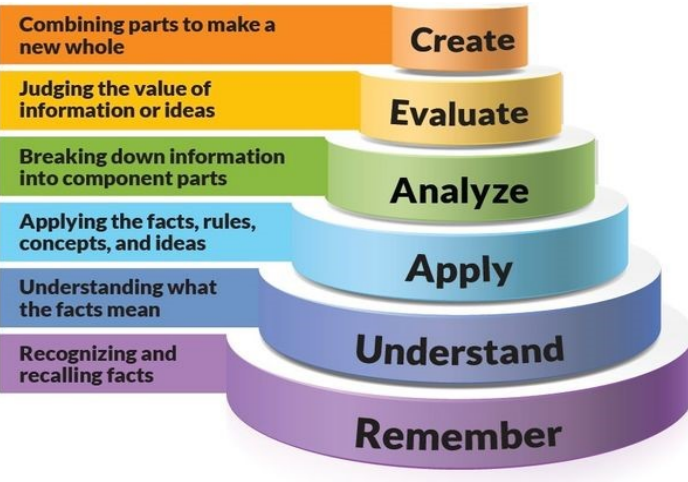


SCHOOL OF CIVIL ENGINEERING  
SKILL COURSE – DATA ANALYSIS

# NEWSLETTER



## About the Newsletter

Welcome to our vibrant weekly newsletter – your dedicated source for connection, inspiration, and skill-building! Immerse yourself in our curated content, featuring insightful updates, expert perspectives, and some nifty tips and tricks in Data Analytics, accompanied by comprehensive course notes. Join us in making this newsletter a dynamic space where information meets inspiration, creating a rich learning experience for all of us.

Best regards.



## Upcoming Events

Date	Events
29 <sup>th</sup> Mar' 24	Good Friday
01 <sup>st</sup> - 05 <sup>th</sup> Apr' 24	Mid Sem Exam (SY)
07 <sup>th</sup> Apr' 24	World Health Day
08 <sup>th</sup> Apr' 24	Educational Tour
09 <sup>th</sup> Apr' 24	Gudi Padwa



## Announcement and Activities

The School of Civil Engineering celebrated Holi with vibrant colors, fostering camaraderie among faculty and students. The joyous occasion showcased unity and the spirit of togetherness within the academic community.



## Guest of the Week



Dr. Rohan Pande currently working as an Assistant Professor, Grade-I at Sardar Vallabhbhai National Institute of Technology, Surat (SVNIT). He completed his Ph.D. from Visvesvaraya National Institute of Technology (VNIT) Nagpur.

Data science is poised to permeate every facet of engineering, revolutionizing planning, creation, and oversight of systems and infrastructure. Machine learning and predictive analytics will be key areas of development. Engineers will analyze vast data volumes from integrated sensors using complex algorithms, foreseeing potential failures and enabling proactive maintenance, thereby prolonging equipment life and enhancing reliability.

Additionally, data science will optimize design to unprecedented levels by employing sophisticated modeling and simulation tools. Engineers will provide more effective, affordable, and sustainable designs, tailored to unique needs through data-driven methods.

Future data science in engineering will thrive on interdisciplinary collaboration, leveraging diverse viewpoints and knowledge areas. Engineers will work closely with data scientists, domain experts, and stakeholders, fostering innovation and problem-solving across sectors.

Moreover, the emergence of the Internet of Things (IoT) will bolster data science in engineering, granting access to vast real-time data volumes. Engineers can then design more intelligent and responsive systems to meet societal demands.

In conclusion, the future of data science in engineering promises to revolutionize the field, driving innovation, efficiency, and sustainability through data-driven approaches and interdisciplinary collaboration, shaping a brighter future for generations to come.

### What happened last week



**Mr. Swapnil V. Gole**  
 (Final Year BTech)



**Ms. Shraddha S. Gadge**  
 (TY BTech)

### Control Structures:

Control structures in programming are used to control the flow of execution based on certain conditions or loops. Common control structures include:

- If statements: Used to execute code based on a condition.
- Loops (For, While, Do While): Used to repeat a block of code until a condition is met.
- Select Case: Used to execute different blocks of code based on the value of an expression.

### Structure of a Program:

A typical program structure involves:

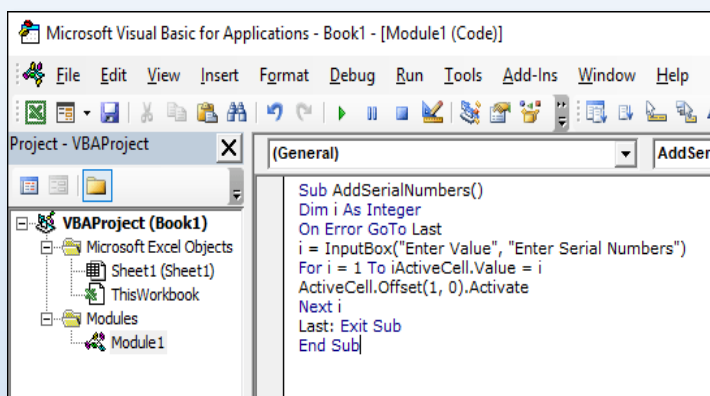
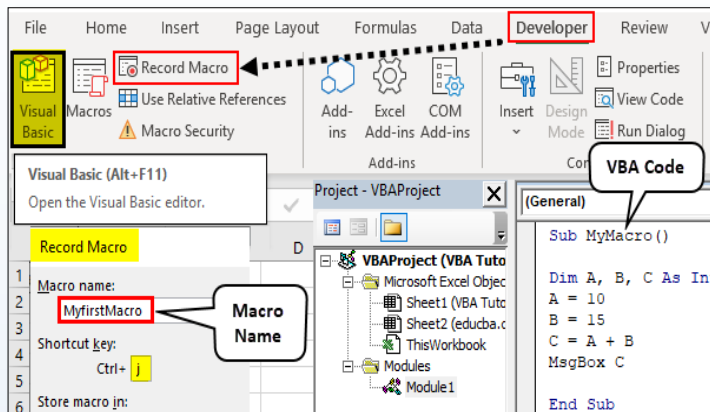
- Declaration/Initialization: Define variables and set initial values.
- Input: Gather input data from the user or external sources.
- Processing: Perform calculations, manipulate data, or apply logic.
- Output: Display results or store data.
- Control Structures: Use if statements, loops, etc., to control the flow of execution.

### VBA Program Syntax:

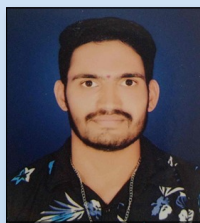
VBA (Visual Basic for Applications) syntax includes:

- Variables: Declaring variables using Dim, assigning values.
- Subroutines and Functions: Writing procedures to perform specific tasks.
- Control Structures: If statements, loops, select case, etc.

- Objects and Methods: Manipulating Excel objects like worksheets, ranges, etc.
- Event Handling: Responding to user actions or system events.



### Achievements



Congratulations to Mr. Bira Narbat and Mr. Aditya Gawai for their outstanding performances in the GATE-2024 Exam with scores of 37.99 and 23.55 respectively. Commendations also to the 45 students from the school of civil engineering who achieved positive scores. They have also opened their gateway for higher studies. Your dedication and hard work have truly paid off. Well done!!



### Tips of the Week

Hello Excel enthusiasts! We've gathered essential Excel formulas to elevate your spreadsheet game. These formulas are your secret weapons for efficient data handling and analysis.

(QR Code for Excel CTRL+SHIFT Shortcuts )

