

Date: 4/8/23

C- Programming Workshop Schedule

Day 1- 7/8/2023 - 9:30 AM to 1 PM			2 PM to 4 PM
Sr. No	Topic Name	Name of Faculty	Practical
1	What is C ,History & Features	Prof. N.A. Sayyad	
2	How to install ,C program ,Compilation process	Prof. N.A. Magdum	
3	Variable ,Keywords & Data Types	Prof. N.A. Sayyad	
Day 2 - 8/8/2023- 9:30 AM to 1 PM			
1	Control statements : If ,else, switch loops, Break statement, Continue statement, Type casting	Prof. N.A. Magdum	
Day 3 - 9/8/2023- 9:30 AM to 1 PM			
1	Function : Call by value	Prof. N.A. Magdum	
2	Array ,1-D Array, 2-D Array, Return an Array	Prof. N.A. Sayyad	
Day 4 - 10/8/2023 - 9:30 AM to 1 PM			
1	Pointers- Call by reference	Prof. N.A. Magdum	
2	Strings	Prof. N.A. Sayyad	
3	Math function	Prof. N.A. Magdum	
Day 5 - 11/8/2023 - 9:30 AM to 1 PM			
4	C preprocessor	Prof. N.A. Magdum	
5	Structure & Union	Prof. N.A. Sayyad	
6	Programs to form different patterns	Prof. N.A. Magdum	

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Path, Panhala - 415 201

Program Coordinator



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USE

Department of Computer Science & Engineering

TE Code : **EN6315**



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AICTE ID : 1-8019451
AISHE Code : C-11165

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ENGINEERING & TECHNOLOGY INSTITUTE, PANCHALA
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Date: 31-01-2024

**Schedule for SDP on Soft Skill
(SY-A)**

Date: Monday, 05/02/2024 to Friday 09/02/2024.

Venue: Class Room No. 309, CSE Department, SETI, Panchala

Resource Person: Ms. Tanushree Ghosh.

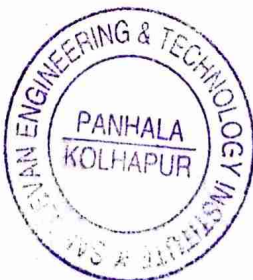
Organized by: CSE and T&P Department.

Day&Date/ Time	Session 1 9.15 To 11.15 am	Session 2 11.30 am to 1.45 pm	Session 3 2.15 pm To 4.15 pm
Monday, 05/02/2024	Organizational Structure, Organizational behavior	Leadership	Attitude
Tuesday, 06/02/2024	Corporate etiquettes	Teamwork, Group Discussion	Verbal Communication
Wednesday, 07/02/2024	Leadership Activity, Task Management	Confidence building Ice breaking	Communication Presentation
Thursday, 08/02/2024	Telephonic etiquettes/Manners	Role play Presentation, Ground Activity	Public speaking, Conflict management
Friday, 09/02/2024	Resume writing, Interviews	Grooming, Corporate traits	Mock Interviews

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Date: 4/8/23

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Schedule for Aptitude Training

Date: 07/08/23 to 10/08/23,

Venue: Seminar hall of Electrical Department

Resource person: Mr. Pritam Mahamuni from GTT.

Organized by: CSE and T & P Dept.

Day & Date	Session I 9.30am to 11.10am	Session II 11.20am to 1.20pm	Session III 2pm to 4.00pm
Monday 07/08/23	Introduction and Examples on Numerical System	Mathematical questions on number system	Examples on Numerical & Mathematical system
Tuesday 08/08/23	Analyze Logical Questions	Logical Questions and puzzles	Examples on Logical Questions
Wednesday 09/08/23	Analyze Reasoning Questions	Examples Reasoning Questions	Different Examples on Reasoning
Thursday 10/08/23	Probability and Geometry Questions	Examples on Time & Work.	Basic tips and strategies for approaching aptitude test


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DTE Code : ENG315



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AISHE Code : C-11165

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Department of Mechanical Engineering

Course Schedule

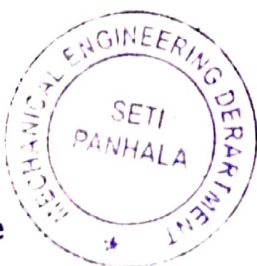
- Title of Course: Alternative Fuels
- Date: 23/03/2024 to 27/05/2024 (only on working Saturdays).
- Venue: Class room: 208, Mechanical Engg. Department, SETI, Panhala.
- Resource Person: Prof. Sardar B. Deshmukh, Mechanical Engg. Department, SETI, Panhala.
- Organised by: Mechanical Engineering Department, SETI, Panhala.

Day/Date/ Time	Session 1 9.15 To 11.15 am	Session 2 11.30 am to 1.30 pm	Session 3 2.15 pm To 4.15 pm
Saturday 23/03/2024	Need for alternative fuel	Availability and properties of alternate fuels	Merits and demerits of various alternate fuels
Saturday 13/ 04/2024	Alcohols: Properties as engine fuel	Alcohol and gasoline blends	Methanol and gasoline blends
Saturday 27/ 04/2024	Availability of CNG and properties of it	LPG in SI & CI engines	Modification required to use natural gas in engines
Saturday 11/ 05/2024	Hydrogen as a fuel in IC engines	Storage and handling	Performance and safety aspects
Monday 27/05/2024	Biodiesel production from Vegetable oils	Properties of bio-fuels and their importance in the context of IC Engines	Performance and emission characteristics

Prof. S. B. Deshmukh
Course Coordinator

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Dr. V. H. Deokar

HOD

Mechanical Engineering
Sanjeevan Engg. & Tech. Institute, Panhala



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Department of Mechanical Engineering

Syllabus of Course

on

“Alternative Fuels”

Unit I:

Need for alternate fuel: Availability and properties of alternate fuels, merits and demerits of various alternate fuels, introduction to alternative energy sources.

Unit II:

Alcohols: Properties as engine fuel, alcohol and gasoline blends, performance in SI engine, methanol and gasoline blends, combustion characteristics in CI engines, emission characteristics, performance in SI & CI Engines.

Unit III:

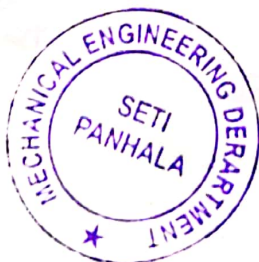
Gaseous fuels: Production, properties, Engine performance, advantages and disadvantages of CNG, LNG, ANG, LPG and LFG.

Unit IV:

Hydrogen: Properties and production of hydrogen, Storage, Advantages and disadvantages of hydrogen, use of Hydrogen in SI and CI engines. Hazards and safety systems for hydrogen, hydrogen combustion. Emissions from hydrogen.

Unit V:


Technical Background of Diesel/Biodiesel fuels-Oil feed stocks. Properties of biodiesels and their importance in the context of IC engines. Performance and emission characteristics, biodiesel and its characteristics.

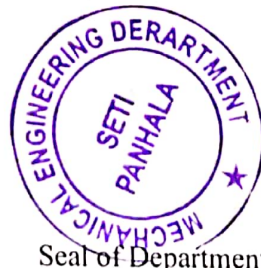



Training Schedule

Introduction to Fusion 360


Date	Time	Content
August 12, 2023 (Saturday)	10:00 AM - 1:00 PM	Introduction to Fusion 360 and its Interface Sketching Basics and Constraints in Fusion 360
August 26, 2023 (Saturday)	10:00 AM - 1:00 PM	3D Modeling Fundamentals in Fusion 360 Parametric Design and History in Fusion 360
September 9, 2023 (Saturday)	10:00 AM - 1:00 PM	Assemblies and Joints in Fusion 360 Rendering and Visualization Techniques in Fusion 360
September 23, 2023 (Saturday)	10:00 AM - 1:00 PM	Simulation and Stress Analysis in Fusion 360 CAM (Computer-Aided Manufacturing) Basics in Fusion 360
October 14, 2023 (Saturday)	10:00 AM - 1:00 PM	2D Drawing and Documentation in Fusion 360 Collaborative Design and Data Management in Fusion 360
October 28, 2023 (Saturday)	10:00 AM - 1:00 PM	Fusion 360 Add-Ins and Customization Advanced Sculpting and Freeform Modeling in Fusion 360
November 11, 2023 (Saturday)	10:00 AM - 1:00 PM	Sheet Metal Design in Fusion 360
November 25, 2023 (Saturday)	10:00 AM - 1:00 PM	Designing for 3D Printing in Fusion 360
December 9, 2023 (Saturday)	10:00 AM - 1:00 PM	Parametric Modeling Best Practices in Fusion 360
December 23, 2023 (Saturday)	10:00 AM - 1:00 PM	Final Project and Recap


Prof. Naik A.N.
Resource Person




Dr. V.H. Deokar
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DEPARTMENT OF MECHANICAL ENGINEERING

Date: 05/02/2024

Detail Schedule for SDP

Title of SDP: Advanced Excel Crash Course

Date: 10/02/2024 to 25/05/2024 (Only on working Saturday).

Venue: Class Room No. 208, Mechanical Engineering Department, SETI, Panhala.


Resource Person: Prof. Vikas D. Thorat

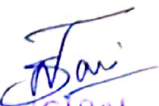
Mechanical Engg. Department,

Sanjeevan Engineering & Technology Institute (SETI), Panhala

Organised by: Mechanical Engg. Department, SETI, Panhala

Day&Date/ Time	Session 1 9.15 To 11.15 am	Session 2 11.30 am to 1.30 pm	Session 3 2.15 pm To 4.15 pm
Saturday, 10/02/2024	1. Introduction of Excel 2. Data Entry & Basic Formulas in Excel	3. Sorting Data in Excel 4. Filter Data in Excel	5. Advanced Filter in Excel with Macro 6. Data Validation in Excel
Saturday, 24/02/2024	7. Conditional Formatting in Excel 8. Text to Columns & Flash Fill	9. Remove Duplicates & Unique Formula 10. Paste Special in Excel	11. IF Formula in Excel 12. IF with AND Formula in Excel
Saturday, 23/03/2024	13. If with OR Formula in Excel 14. Nested If Formula in Excel	15. Sumif and Countif 16. SumIFS and CountIFS Formula	17. Match and Index Formula 18. Vlookup and H-lookup Formula
Saturday, 27/04/2024	19. Text Formulas in Excel 20. Date Formulas in Excel	21. Pivot Table in Excel 22. Pivot Chart in Excel	23. Slicer in Pivot Table 24. Timeline and Pivot Table Options
Saturday, 25/05/2024	25. Sort and Filter Formula 26. Financial Functions in Excel	27. Xlookup Formula in Excel 28. Printing Tips in Excel	29. Macros and Add-ins in Excel 30. Use of ChatGPT in Excel


Prof. Vikas D. Thorat
SDP Coordinator


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Dr. V. H. Deokar



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DEPARTMENT OF MECHANICAL ENGINEERING

Syllabus of SDP on “Advanced Excel Crash Course”

Unit I:

Introduction of Excel, Data Entry & Basic Formulas in Excel, Sorting Data in Excel
Filter Data in Excel, Advanced Filter in Excel with Macro, Data Validation in Excel. (6 Hrs)

Unit II:

Conditional Formatting in Excel, Text to Columns & Flash Fill, Remove Duplicates & Unique
Formula, Paste Special in Excel, IF Formula in Excel, IF with AND Formula in Excel (6 Hrs)

Unit III:

If with OR Formula in Excel, Nested If Formula in Excel, Sumif and Countif, SumIFS and
Count IFS Formula, Match and Index Formula, Vlookup and H-lookup Formula. (6 Hrs)

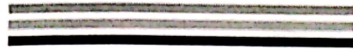
Unit IV:

Text Formulas in Excel, Date Formulas in Excel, Pivot Table in Excel, Pivot Chart in Excel,
Slicer in Pivot Table, Timeline and Pivot Table Options (6 Hrs)

Unit V:

Sort and Filter Formula, Financial Functions in Excel, Xlookup Formula in Excel, Printing Tips
in Excel, Macros and Add-ins in Excel, Use of ChatGPT in Excel. (6 Hrs)





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Date – 10th August 2023

NOTICE

All the third year students are hereby informed that, our department is going to conduct TTL ready engineer activity in collaboration with TATA technology. This course will be conducted during academic year 2023-2024. Interested students enroll their names to Dr. Vinayak H. Deokar on or before 12th August 2022.

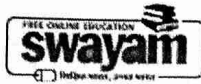
Dr. Vinayak H. Deokar

HEAD Mechanical, Coordinator TTL (SPOC)

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Programming in Python

By Dr. Rizwan Rehman | Dibrugarh University

Learners enrolled: 33482

Dr. Rizwan Rehman

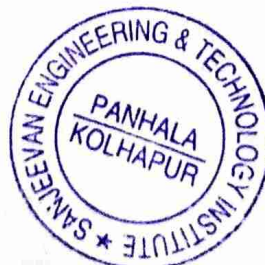


This course covers two aspects of programming i.e. solving the problem using different techniques like algorithm, flowchart and decision table and then writing the programs using the syntax of Python language to obtain the computer solution to the problem. Python is a simple and easy to understand language. It is a great language to start as a beginner and then to scale up to professional programmer. This course will help enhancing the problem solving skills of the undergraduate student using the python language.

Summary

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Course Status :

Course Type :



Completed
(<https://swayam.gov.in/>)



(https://swayam.gov.in/nc_details/CEC)

Language for course : Python | All Courses | 0

Duration : 12 weeks

Category :
• Computer Science and Engineering

Credit Points : 4

Level : Undergraduate

Start Date : 04 Feb 2024

End Date : 28 Apr 2024

Enrollment Ends : 29 Feb 2024

Exam Date : 25 May 2024 IST

Exam Shift : I

Note: This exam date is subject to change based on seat availability. You can check final exam date on your hall ticket.

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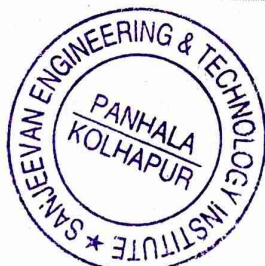
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Course layout



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Week 1: Planning the Computer Program: Concept of problem solving, Problem definition, Program design, Debugging, Types of errors in programming, Documentation.

Week 2: Techniques of Problem Solving: Flowcharting, decision table, algorithms, Structured programming concepts, Programming methodologies viz. top-down and bottom-up programming.

Week 3: Introduction to Python: Structure of a Python Program, Elements of Python, Python Interpreter, Using Python as calculator Python shell, Indentation. Atoms, Identifiers and keywords, Literals, Strings and Operators.

Week 4: Conditional Statements and Looping: Branching, Looping, Conditional Statement, Exit function, Difference between break continue and pass.

Week 5: String Manipulation: Understanding string, Accessing Strings, Basic Operations, String slices, Function and Methods.

Week 6: List: Introduction to list, Accessing list, list operations, Working with lists, Function and Methods.

Week 7: Tuples: Introduction to tuple, Accessing tuples, Operations, Working, Functions and Methods.

Week 8: Dictionary: Introduction to dictionaries, Accessing values in dictionaries, Working with dictionaries, Properties, Functions.

Week 9: Python Functions: Defining a function, Calling a function, Types of functions, Function Arguments, Anonymous functions global and local variables, Organizing python codes using functions.

Week 10: Python Modules: Organizing python projects into modules, Importing own module as well as external modules, Understanding packages, modules and external packages.



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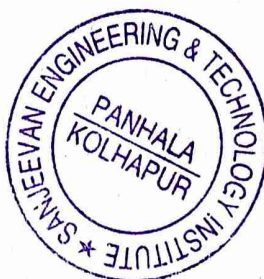
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Week 11: Input-Output Functions, Reading data from keyboard, Opening and closing file, Reading and writing files.
Week 12: Exception Handling, Introduction to Exception, Exception Handling, Except clause, Try ? finally clause, User Defined Exceptions.

swayam (https://swayam.gov.in/) (https://swayam.gov.in/nc_details/CEC)

About Swayam (https://swayam.gov.in/about) | All Courses | 0

Books and references

1. A. B. Downey, Think Python, 2e: How to Think Like a Computer Scientist, O'Reilly, 2015.
2. Z. Shaw, LEARN PYTHON 3 THE HARD WAY, Addison-Wesley, 2017.
3. Arockia Mary P, Problem Solving and Python Programming, Shanlax Publications, 2021.
4. C. Morris, "https://www.kaggle.com/learn/python," [Online].
5. "https://docs.python.org/3/tutorial/index.html," [Online].

Instructor bio



Dr. Rizwan Rehman

Dibrugarh University

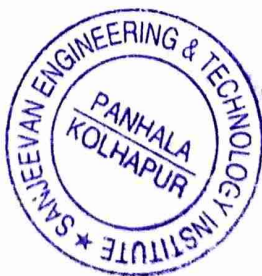
Dr. Rizwan Rehman is an Assistant Professor from the Centre for Computer Science and Applications, Dibrugarh University, who specializes in Computer Programming, Machine Learning and Speech Processing. He has done his Ph.D. in Computer Science from Dibrugarh University. He has a teaching experience of 17 years.

Course certificate

70% end term exam and 30% internal assessment

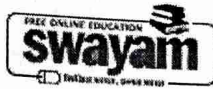
Minimum **40% in each** would be required to pass the course and get completion certificate

Once again, thanks for your interest in our online course. Happy learning.




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Programming In Java

By Prof. Debasis Samanta | IIT Kharagpur

Learners enrolled: 84287 | Exam registration: 26925

Programming in Java



ABOUT THE COURSE :

With the growth of Information and Communication Technology, there is a need to develop large and complex software. Further those software should be platform independent, Internet enabled, easy to modify, secure, and robust. To meet this requirement object-oriented paradigm has been developed and based on this paradigm the Java programming language emerges as the best programming environment. Now, Java programming language is being used for mobile programming, Internet programming, and many other applications compatible to distributed systems. This course aims to cover the essential topics of Java programming so that the participants can improve their skills to cope with the current demand of IT industries and solve many problems in their own field of studies.

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INTENDED AUDIENCE: This course is intended for students who are interested in learning about computer science and engineering. It is suitable for students who are interested in learning about computer science and engineering. (https://swayam.gov.in/about) | All Courses | Details | NPTEL, etc. might be interested for this course.

PREREQUISITES: This course requires that the students are familiar with programming language such as C/C++ and data structures, algorithms.

INDUSTRY SUPPORT: All IT companies.

Summary

Course Status :	Completed
Course Type :	Elective
Language for course content :	English
Duration :	12 weeks
Category :	<ul style="list-style-type: none">◦ Computer Science and Engineering◦ Programming
Credit Points :	3
Level :	Undergraduate
Start Date :	22 Jan 2024
End Date :	12 Apr 2024
Enrollment Ends :	05 Feb 2024
Exam Registration Ends :	16 Feb 2024
Exam Date :	27 Apr 2024 IST

Note: This exam date is subject to change based on seat availability. You can check final exam date on your hall ticket.

This is an AICTE approved FDP course

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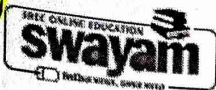
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Course lay



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- Week 1 : Overview of Object-Oriented Programming and Java
Week 2 : Java Programming Elements
Week 3 : Input-Output Handling in Java
Week 4 : Encapsulation
Week 5 : Inheritance
Week 6 : Exception Handling
Week 7 : Multithreaded Programming
Week 8 : Java Applets and Servlets
Week 9 : Java Swing and Abstract Windowing Toolkit (AWT)
Week 10 : Networking with Java
Week 11 : Java Object Database Connectivity (ODBC)
Week 12 : Interface and Packages for Software Development

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Books and references

1. Java: The Complete Reference Hebert Schildt, Mc Graw Hill
2. Object-Oriented Programming with C++ and Java Debasis Samanta, Prentice Hall India.

Instructor bio



Prof. Debasis Samanta

IIT Kharagpur

Debasis Samanta holds a Ph.D. in Computer Science and Engineering from Indian Institute of Technology Kharagpur. His research interests and work experience spans the areas of Computational Intelligence, Data Analytics, Human Computer Interaction, Brain Computing and Biometric Systems. Dr. Samanta currently works as a faculty member at the Department of Computer Science & Engineering at IIT Kharagpur.

Course certificate

The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.

The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).

Date and Time of Exams: **27 April 2024** Morning session 9am to 12 Noon Afternoon Session 2pm to 5pm.

Registration url: Announcements will be made when the registration form is open for registrations.

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The online registration form needs to be filled and the certification exam fee needs to be paid. More details will be made available when the exam form is released. Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

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CRITERIA TO GET A CERTIFICATE

Average assignment score = 25% of average of best 8 assignments out of the total 12 assignments given in the course.
Exam score = 75% of the proctored certification exam score out of 100

Final score = Average assignment score + Exam score

YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE $\geq 10/25$ AND EXAM SCORE $\geq 30/75$. If one of the 2 criteria is not met, you will not get the certificate even if the Final score $\geq 40/100$.

NOTE: Please note that there will not be an unproctored programming exam for this course this term.

Certificate will have your name, photograph and the score in the final exam with the breakup. It will have the logos of NPTEL and IIT Kharagpur. It will be e-verifiable at nptel.ac.in/noc (<http://nptel.ac.in/noc>).

Only the e-certificate will be made available. Hard copies will not be dispatched.

Once again, thanks for your interest in our online courses and certification. Happy learning.

- NPTEL team



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