Sinhgad Technical Education Society's

SINHGAD INSTITUTE OF TECHNOLOGY, LONAVALA

Department of Information Technology

INTERNSHIP LOGBOOK

Third Year (IT)
Academic Year
2023-24

Internship Faculty Incharge
Dr. Pravin Latane

HOD (IT)
Dr. R. V. Babar

Vision and Mission of Institute

VISION

उत्तमपुरुषान् उत्तमाभियंतृन् निर्मातुं कटीबध्दा: वयम्।

We are committed to produce not only good engineers but good human beings, also.

MISSION

Holistic development of students and teachers is what we believe in and work for. We strive to achieve this by imbibing a unique value system, transparent work culture, excellent academic and physical environment conducive to learning, creativity & technology transfer. Our mandate is to generate, preserve and share knowledge for developing a vibrant Society.

Vision Mission of department

VISION

The department of IT visualizes teaching learning methodologies to create groomed, technically competent, skilled intellectual IT professionals to achieve the challenges of dynamic needs of local as well global industry and professional community.

MISSION

The department offers students and faculty with an open environment that fosters professional and personal growth. Acquiring knowledge of Information Technology and learning its application through innovative practices and possess high morale, ethics, lifelong learning skills, concern for the society and environment.

Short Term Goals

- The department offers students and faculty with an open environment that fosters professional and personal growth.
- To strengthen the institute-industry relationship for mutual benefits.
- To initiate technical development programs and certification examinations for skills development of students.
- To establish project-based learning model for real life learning to improve academic performance of students and maintain high placement record

Long Term Goals

- To provide dynamic curriculum to meet the requirements of industries.
- To strengthen patent-based research and product development efforts for supporting indigenous market.
- To foster research in the field of Information Technology for the benefits of society.
- To create better entrepreneurs in the IT Sector.

Program Educational Objectives: PEOs

- To provide strong fundamental concepts in mathematics, science, engineering and Technology to address technological challenges.
- To provide knowledge and skills in the field of Computer Science and Information Technology for analyzing, designing and implementing complex engineering problems of any domain with innovative approaches.
- Possess an attitude and aptitude for research, entrepreneurship and higher studies in the field of Computer Science and Information Technology.
- Shall Have commitment to ethical practices, societal contributions through communities and lifelong learning.
- Possess better communication, presentation, time management and teamwork skills leading to responsible & competent professionals and will be able to address challenges in the field of IT at global level.

Program Specific Outcomes: PSOs

1. An ability to apply diverse Information Technology concepts to solve complex business and computational problems through the analysis, design, development and management of information processing systems and applications in interdisciplinary domains.
2. Acquire technical, professional and social skills through the use of latest technology to be competent enough for professional responsibilities

Program Outcomes: POs

Students will be able to:

i) **Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

ii) **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.

iii) **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.

iv) **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 for complex problems:

- that cannot be solved by straightforward application of knowledge, theories and techniques applicable to the engineering discipline as against problems given at the end of chapters in a typical text book that can be solved using simple engineering theories and techniques;
- that may not have a unique solution. For example, a design problem can be solved in many ways and lead to multiple possible solutions;
- that require consideration of appropriate constraints / requirements not explicitly given in the problem statement such as cost, power requirement, durability, product life, etc.;
- which need to be defined (modelled) within appropriate mathematical framework; and
- that often require use of modern computational concepts and tools, for example, in the design of an antenna or a DSP filter.

v) **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.

vi) **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.

vii) **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.

viii) **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

ix) **Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

x) **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.

xi) **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.

xii) **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.

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Website: sit.sinhgad.edu
Department of Information Technology

Internship Details

Name of Student:	Prathamesh Manohar Dandage		
Roll Number:	11	**Student Contact:**	7875363959
Online/Offline:	ONLINE	**Duration:**	1 Month
Start Date:	01/01/2024	**End Date:**	31/01/2024
Stipend received (If any):	NO	**Is Paid:**	NO
Area/Domain:	JAVA DEVELOPMENT		
Name of Company:	TechnoHacks EduTech		
Company address: **(With website link)**	10, 2nd Floor, Devikrupa Apartment, Vidya vikas circle, Gangapur Rd, above New Singh Cycles, Nashik, Maharashtra 422005 https://technohacks.co.in/		
Company Email:	mailto:info.technohacks@gmail.com	**Company Contact:**	8208937014

*** Attach internship Completion certificate at the end.**

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Week 1 Diary

Week Starting date: 01-01-2024

Day	Date	Work done
Monday	01/01/2024	Introduction to Java Programming ,Features of Java. Application development in JAVA –understanding JDK, JRE, JVM WALK: Contest on - Data types, Operators, Control Structures:- Conditionals statements, Loops, Arrays - 2 to 4 Problems, Hands On – Data types,Conditionals statements, Loops, Arrays - 6 to 8 Pr
Tuesday	02/01/2024	Concepts – String Class and Methods of String Class handling Unicode characters, Comparing Strings, Concatenation of String Concepts – String Buffer, String Builder CRAWL: Hands On – String Class - 6 to 8 Problems.
Wednesday	03/01/2024	Concepts - Arrays Class and Methods CRAWL: Hands On – Arrays Class Concepts - Properties Class and Objects Concepts – Exception handling, try-catch, nested exceptions, finally, throw, throws. CRAWL: mini-app using Collections WALK: Contest on – Collections - 4 to 6 Problems
Thursday	04/01/2024	Concepts – Classes & Objects, Real world connections Concepts - Inheritance (IS-A), Relationships & Collaboration (HAS-A), Polymorphism (Overloading and Overriding), Abstraction (Interface & Abstract Class), Encapsulation (Packages & Access modifiers) Concepts -static, final, super &this keywords.
Friday	05/01/2024	Concepts :- Packages, Advantages of using Packages, Types of Packages Creating our own packages

Comments by Supervisor or Manager (If any) :

Signature by Student: _____ **Signature by Supervisor or Manager:** 

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Week 2 Diary

Week Starting date: 08-01-2024

Day	Date	Work done
Monday	08-01-202	Concepts: Wrapper Class and Methods of Wrapper Class, Collection Framework : ArrayList,LinkedList,Vector, Hashset class and Methods.
Tuesday	09-01-202	Files & I/O Streams. Files & Streams (About all I/O streams with various operations)Packages & Importance of packages
Wednesday	10-01-202	Web Application development using Servlets Introduction of Servlet API, Web Server (Tomcat 8.0) Configuration), Steps to Creation & Execution of Servlets using Tomcat server. Installation of apache software, programs on servlets (Home Page, Login, Registrations and update profile)
Thursday	11-01-202	Installation of MYSQL Data Base & Data Base Creation & Tables in SQL Yog. JDBC examples on types, stages, statement and prepared statement.
Friday	12-01-202	Guest lecture on Web application security assessment

Comments by Supervisor or Manager (If any) :

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Signature by Student: _____ **Signature by Supervisor or Manager:** _____

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Week 3 Diary

Week Starting date:15-01-2024

Day	Date	Work done
Monday	15/01/2024	HTML, HTML-5- validations & CSS Various tags of html with examples, different ways, Creation of Web Pages using html.
Tuesday	16/01/2024	Introduction of JSP technology, Importance of JSP over Servlets, JSP Life Cycle methods, Execution flow of JSP pages, Various tags in JSP.
Wednesday	17/01/2024	JSP Life Cycle methods, execution flow of JSP pages, Various tags in JSP. Scripting Tags, Directive Tags, Action Tags with all possible attributes
Thursday	18/01/2024	NO WORK DONE
Friday	19/01/2024	Guest lecture on Manual testing and automation testing

Comments by Supervisor or Manager (If any) :

Signature by Student: _____ **Signature by Supervisor or Manager:** _____

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Week 4 Diary

Week Starting date: 22-01-2024

Day	Date	Work done
Monday	22/01/2024	Introduction of JDBC API, types of drivers, how to connect with DB using jdbc drivers
Tuesday	23/01/2025	Installation of apache software, Intoduction to servlet, Life cycle of servlet HTTP Protocol, GET and POST method. Program on Servlet.
Wednesday	24/01/2026	Development of Projects : Creating Portfolio WebPage , Contact Management Web Application.
Thursday	25/01/2027	Development of Project : Simple Calculator Using java, Tic Tac Toe Game, Number Guessing Game.

Comments by Supervisor or Manager (If any) :

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Signature by Student: _____ **Signature by Supervisor or Manager:** _____

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INTERNSHIP CERTIFICATE

TECHNOHACKS
LET'S GROW TOGETHER

CERTIFICATE OF INTERNSHIP

This Certificate Is Proudly Presented To

Prathmesh Dandage

For Successfully Completing An Internship On

Java Development

From **01/01/2023** To **31/01/2024** At TechnoHacks EduTech.
During This Internship, We Found Him/Her Consistent And Hardworking. We Wish All The Best For Future Endeavors.

Sandip Gavit
Founder

CERTIFIED ISO 9001:2015 COMPANY

MSME MICRO, SMALL & MEDIUM ENTERPRISES

02/02/2024
Date

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Feedback of Student
[To be taken after completion of Internship]

Name of Student : Prathamesh Manohar Dandage

Attendance	□ Good	□ Acceptable	□ Needs Attention
Punctuality	□ Good	□ Acceptable	□ Needs Attention
Suitability of Office Attire	□ Good	□ Acceptable	□ Needs Attention
Ability to Communicate	□ Good	□ Acceptable	□ Needs Attention
Behavior	□ Good	□ Acceptable	□ Needs Attention
Industry Skills	□ Good	□ Acceptable	□ Needs Attention
Working without supervision	□ Good	□ Acceptable	□ Needs Attention
Working as part of a Team	□ Good	□ Acceptable	□ Needs Attention
Working Safely	□ Good	□ Acceptable	□ Needs Attention
Flexibility	□ Good	□ Acceptable	□ Needs Attention
Interest shown	□ Good	□ Acceptable	□ Needs Attention
Organizing own work	□ Good	□ Acceptable	□ Needs Attention
Attitude to work	□ Good	□ Acceptable	□ Needs Attention
Relationship with Supervisor	□ Good	□ Acceptable	□ Needs Attention

Additional comments:

(Sandip Gavit)
Manager's or Supervisor's Signature **Date:**