Sinhgad Institutes
Sinhgad Engineering Institutes
Student Training Program

Introduction

Worldwide, the advancement in technology has not only revolutionized the scope of engineering education, but also redefined the expectations from engineering graduates. At STES, a need was identified to start an innovative *"Student Training Program"* that would help the students to build a personality equipped with exquisite technical and non-technical skills. With this in mind, a state of the art Student Training Program is being implemented from the year 2013. While the aim of this program is *"to enhance the quality of the students by empowering them with skills those are globally at par"*, the objectives of this program are to:

- Enhance the employability opportunity,
- Prepare students for entrepreneurship and
- Prepare students for higher education in India as well as Abroad.

Program Details

This training program, the duration of which is 120 hours that spread over 5 semesters, is to be undertaken by the student from the start of the Second Year of Engineering. The details of the program are mentioned in Table 1.

Unique Features

The unique features of this program are mentioned below.

- Integration in to the curriculum: Training incorporated into the curriculum to help prepare and evaluate the students in technical and non-technical skills.
- Lecture Recordings: As a part of STP, subject wise, all lectures are recorded by expert faculty on K-point server. This is an LAN based resource to help the students learn and revisit the concepts discussed in class.
- Need based training: Training provided is based on the need of the student
- Expert faculty: A good blend of class room and hands on training provided by expert faculty
- AMCAT assessment: Training need and outcome assessed using AMCAT, a job test preferred by many industries.
- Portal presence: Students will be provided a three year presence on AMCAT portal to seek placement.
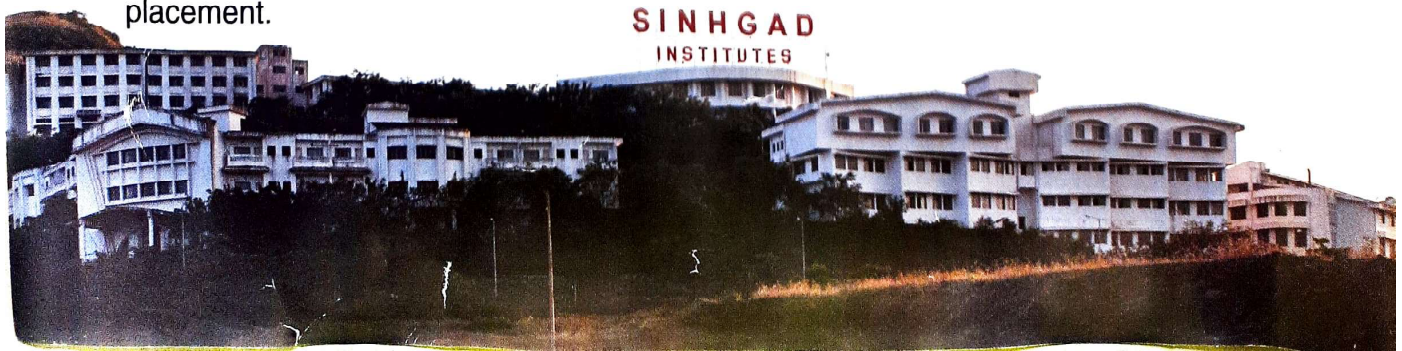
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Table 1: Program details, Student Training Program

Training on Soft Skills

- SWOT Analysis, Goal Setting (Personal and Career), Personality and Stress Management, Behavioral Skills, Listening, Reading (Technical and Non-technical), Writing (Letter, Resume, CV, Report), Speaking (Public speaking, Group Discussion)
- AMCAT Assessment: To be used to assess the need for training in soft skills.
- Quantitative Aptitude and Logical Reasoning Tests.
- Audio backed Lectures by expert faculty with video illustrations for all 6 subjects

Training on Communication Skills

- Listening, Reading (Technical and Non-technical), Writing (Letter, Resume, CV, Report), Speaking (Public speaking, Group Discussion)
- AMCAT Re-assessment: To be used to evaluate the soft skills of the student.
- Quantitative Aptitude and Logical Reasoning Tests.
- Audio backed Lectures by expert faculty with video illustrations for all 6 subjects

Training on Technical Skills

- Training and refreshing of Technical Fundamentals.
- AMCAT Assessment: Score will be used to assess the need for training in technical skills
- Quantitative Aptitude and Logical Reasoning Tests.

Value Addition Program

- Training from outside expert to add value to CV.
- AMCAT Re-Assessment: To be used to evaluate technical skills and may be used for placement purpose
- Quantitative Aptitude and Logical Reasoning Tests.

Interview Preparation

- Practice of Group Discussion and Personal Interview
- Quantitative Aptitude and Logical Reasoning Tests.

Sinhgad Technical Education Society's
SINHGAD ACADEMY OF ENGINEERING
(Affiliated to University of Pune and Approved by, AICTE, New Delhi.)
S. No. 40, Kondhwa –Saswad Road, Kondhwa (Bk), Pune – 411048.
☎ : (020) 26934441, 26934550, Fax : 020- 26934297,
E-mail : saeprincipal@sinhgad.edu, Website : www.sinhgad.edu

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Contents of STP-I:

1. Goal Setting
2. Behavioral Setting
3. Group Discussion
4. Letter Application writing
5. Listening Skill
6. Order of modules
7. Presentation Skill
8. Public Speaking
9. Report Writing
10. Resume writing
11. SWOT

Dr. K. P. Patil
Principal
PRINCIPAL
SINHGAD ACADEMY OF ENGINEERING
S. No. 40/4A+4B/1, Near PMC Octroi Post
Kondhwa-Saswad Road Kondhwa (Bk.)
Pune-411 048

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Contents of STP-II:

1. Listening
   a. Communication Process in General Sense
   b. The Learning Pyramid
   c. Active Listening Skills defined
   d. Levels of Listening
   e. Context of listing

2. Methodology of Listening

3. Speaking
   a. Talking Vs Speaking
   b. Social Media Phenomena : speaking vs chatting
   c. Art of Public speaking

4. Methodology of Speaking

5. Reading
   a. What is reading?
   b. Why reading?
   c. How to read?
   d. Order of reading progression

6. Methodology of Reading

7. Writing
   a. Types of Writing
   b. Grammar Inputs
   c. Three keys to effective writing

8. Methodology of Writing

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Contents of STP-III:

1. Data Structures And Problem Solving
2. Concept Of Tree
3. Various Types Of Trees
4. Symbol Tables
5. Hash Tables
6. Heap
7. Object Oriented Paradigm
8. Computer Organization And Operation
9. Osa Basic
10. File System

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Contents of STP-IV:

1. Research Methodology : Why & How. Process

2. Classification

3. Selection Criteria

4. Ethics, Plagiarism

5. How To Do Publication

6. Literature Review

7. Technical Report Writing

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Date: 09/07/2016

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Contents of STP-V:

1. Core Java

   a. What Is Java

   b. Jdk,Jre,Jvm

   c. Packages In Java

   d. Inheritance, Polymorphism,Abstraction

2. Advanced Java

   a. Basics Of A Web Application

   b. Web Container And Web Application Project Set Up

   c. Services

   d. Session Management

3. Big Data And Hadoop

   a. Course Introduction

   b. Hadoop Architecture,Distributed Storage,Yarn

   c. Data Ingestion Into Big Data System

4. Android Application

Dr. K. P. Patil
Principal