

7.2.1 TWO BEST PRACTICES SUCCESSFULLY IMPLEMENTED BY THE INSTITUTION



PARISUTHAM INSTITUTE OF TECHNOLOGY AND SCIENCE,
KAMARAJ NAGAR, NH-67, RINGROAD, NANJIKOTTAI,
THANJAVUR – 613006, TAMIL NADU

BEST PRACTICE – 1

FINISHING SCHOOL

PITS FINISHING SCHOOL Concept: Activity Based Programs.

Steve Muller, President, Hopkins University once said, “Universities are turning out highly skilled barbarians because we don’t provide a framework of values to young people, who more and more are searching for it.”

William James of Harvard University said, "The greatest discovery of my generation is that human beings can alter their lives by altering their attitudes of mind."

A study attributed to Harvard University found that when a person gets a job or a promotion, 85% of the time it is because of his ATTITUDE, and only 15% of the time because of his intelligence and knowledge.

Hence PITS lays more stress on Moral Values. Attitude programs are plentiful. PITS is perhaps one of the handful of institutions in India to have a well-designed Finishing School syllabus. About sixty hours per semester are earmarked for Finishing School training. By the time a student passes out of the institution he would have completed nearly 500 hours of training. The Finishing School curriculum is well designed to induce goodness, creativity, develop hidden talents, helping to channelize potential into creativity, enhancing English Communication skills, promoting Good Attitude, teaching Life Skills, Manners and Etiquette through many programs and activities.

What is “PITS Finishing School”?

PITS Finishing School is an Industry-ready training program. It provides skills both technical and soft skills through in-house training programs organized by the institution. Attitude shaping programs have proved to be highly successful. Aspects in social behaviour, presentation skills, good attitude, obedience, adaption to changes, manners, etiquette, human and moral values, technical aptitude and organization skills are elaborately taught. Special programs and activities are conducted to enhance English Communication skills as well as health programs and body exercises. Finishing School lays special stress on attitude and core moral values - importance of parents, respecting elders, greeting, smiling, patriotism, and goodness. It connects theory and practice - an education for real life - body mind & soul - some call it Holistic.

How the Finishing School does helps to improve English Communication?

A special stress is given for English Communication skills development through classes in English singing, English movies, English type writing, Panel Debates, Role Plays, Group Discussion, English Language Lab classes – these aspects are made compulsory. English Table Manners are not only effectively taught but practiced as well. Paper Presentation sessions are regularly conducted. Business English Certificate (BEC) exams conducted by the Cambridge University, is optional. PITS is one of the very few colleges to be approved as an examination centre for conducting B.E.C. examination by the Cambridge University/ ESOL Department. Compulsory Spoken English in the Campus is a part of Finishing School curriculum.

What other activities are conducted under the Finishing School?

Yoga, Silambattam, aerobics are compulsorily taught. Sand sculpting, Bouquet making, clay modeling, chart making, singing classes and type writing classes are also compulsory activities. Learning musical instruments is optional. Regular classes are conducted for learning Key Board, Guitar and flute. Finishing School conducts a three-day residential program for final year students called RILA (Residential Internship and Leadership Award) program filled with technical, attitude, creative and leadership activities. Under the Finishing School curriculum “Art of Living” (Sri Ravi Sankarji’s program) is compulsory for all final year students. It is six-day program of half-a-day duration each. To impart attitude lessons, professional trainers are engaged to take activity based sessions.

Video links

SINGING CLASS	http://youtu.be/N4yC1dIHKfg
SAND SCULPTING	http://youtu.be/Y55K-KL1_7c
SILAMBAM	http://youtu.be/QFXWdDVkcO0
TALENT TIME	http://youtu.be/aayrA-jB32g
GROUP DISCUSSION	http://youtu.be/P9w3zl6cNJ0
AEROBICS	http://youtu.be/45jcsRgyFGY
FLUTE CLASS	http://youtu.be/raonR5xat5g
PIANO KEY BOARD	http://youtu.be/gKu0OpObCJs
PAPER PRESENTATION	http://youtu.be/rJnH_-hI-WU

How Finishing School helps to discover talents?

To help discover hidden talents, “Talent Time” program is conducted each semester where students expose their talents in singing, playing musical instruments, dancing, mono acting , skits, dramas, miming, mimicry, painting ,handicrafts and so on. “Festin O’ Beats” is an Annual Talent Contest which draws wide participation department-wise.

What are other core subjects are taught under the Finishing School Syllabus?

Essential management subjects like Event Management, SWOT Analysis, Life Management, Traits of Leadership, Team Work, Entrepreneurship, Power of Positive Attitude, Self & Personality Management, Effective Communication, Neuro Linguistic Programming (NLP), Career Guidance, Environment, and Cleanliness are some of the core subjects that are taught under the curriculum.

How does Finishing School help Placements?

Essential corporate skills are taught under the curriculum. It is an all-round training modelled on Montessori pattern. Students sincerely following the curriculum have largely benefited from our training. Placement training is also incorporated. Finishing School also arranges Aptitude trainers to crack interviews. Very good resource team is arranged every year for aptitude and quantitative analysis classes. The PITS Placement Cell comes under the purview of the Directorate of the PITS Finishing School.

What is the feedback from corporate heads?

Corporate heads visiting PITS are appreciative of the amount of training given to our students. They appreciate the comparatively, high English Communication level among students. They are also appreciative of the amount of exposure given in the form of sports activities ranging from Rifle Shooting, Billiards, Snooker, Squash, Tennis, swimming apart from regular games and sports activities. PITS is again one of the very few institutions to have very rare sporting facilities in its lush, green campus. Results are tremendous - the outlook is certainly high... given this vast exposure.. self-discipline is also certainly very high.

A Feedback received from Dr. Dhamodharan Raghavachari (Head of The Department of Chemistry, IITMadras) on 30th January 2016:

"Hats off to you and PITS. Your value addition to the students through sincere commitment to their welfare that of the country and the education system is some thing that I deeply admire. I only wish that all our educational Institutions follow your model. Perhaps the sense of ownership over the products makes possible these changes, in contrast to a public Institution that is owned by public? I do hope that these activities include unhindered access to well-equipped labs that would enable students to spend few hours a week to disassemble gadgets and reassemble, come up with their own contraptions, formulas and test their ideas. Perhaps, a good schooling system that can feed into PITS would make it grow to greater heights much faster than many private and public Institutions that I know. Very happy to know about these developments."



ENGLISH NEWSPAPER READING CLASS



CAREER DEVELOPMENT SESSION









PARISUTHAM INSTITUTE OF TECHNOLOGY AND SCIENCE

Department of Civil Engineering

AY 2018 -2019 IV Year VII Sem. REDROSE BATCH

TECHNICAL APTITUDE TRAINING SESSION (TATS) -LESSON PLAN

1. Building Materials		
Lecture No.	Contents of Lecture	Staff in charge
1	Bricks – Classification – Manufacturing of clay bricks – Tests on bricks – Compressive Strength – Water Absorption – Efflorescence – Bricks for special use – Refractory bricks – Cement, Concrete blocks – Light weight concrete blocks	Mr. A. Govandan
2	Cement – Ingredients – Types and Grades – Properties of cement and Cement mortar – Hydration –	
3	Compressive strength – Tensile strength – Fineness– Soundness and consistency – Setting time – Industrial byproducts – Fly ash	
4	Properties of fresh concrete – Slump – Flow and compaction Factor – Properties of hardened concrete – Compressive, Tensile and shear strength – Modulus of rupture – Tests – Mix specification – Mix proportioning	
2. Surveying		
5	Definition- Classifications - Basic principles-Equipment and accessories for ranging and chaining – Methods of ranging - well conditioned triangles –	Mr. A. Govandan
6	Errors in linear measurement and their corrections - obstacles - Traversing – Plotting – applications- enlarging the reducing the figures – Areas enclosed by straight line irregular figures	
7	Compass – Basic principles - Types - Bearing - Systems and conversions- Sources of errors -	
8	Local attraction - Magnetic declination-Dip-Traversing - Plotting - Adjustment of closing error – applications	
9	Level line - Horizontal line - Datum - Bench marks -Levels and staves - temporary and permanent adjustments – Methods of levelling - Fly levelling - Check levelling - Procedure in levelling -	
10	Booking -Reduction - Curvature and refraction - Reciprocal levelling – Sources of Errors in levelling- Precise levelling - Types of instruments - Adjustments - Field procedure	
3. Strength of Materials		
11	Strain energy and strain energy density – strain energy due to axial load, shear, flexure and torsion – Castigliano’s theorems – Maxwell’s reciprocal theorems	Mr. A. Govandan
12	Concept of Analysis - Propped cantilever and fixed beams-fixed end moments and reactions – Theorem of three moments – analysis of continuous beams – shear force and bending moment diagrams.	
13	Euler’s theory of long columns – critical loads for prismatic columns with different end conditions; Rankine-Gordon formula for eccentrically loaded columns – Eccentrically loaded short columns	

4. Structural Design		
14	Concept of Elastic method, ultimate load method and limit state method – Advantages of Limit State Method over other methods	
15	Design codes and specification – Limit State philosophy as detailed in IS code – Design of beams and slabs by working stress method.	
16	Analysis and design of singly and doubly reinforced rectangular and flanged beams by limit state method.	
17	Analysis and design of one way, two way and continuous slabs subjected to uniformly distributed load for various boundary conditions.	
5. Soil Mechanics and Foundation Engineering		
18	Nature of soil – phase relationships – Soil description and classification for engineering purposes, their significance – Index properties of soils - BIS Classification system – Soil compaction	Mr. A. Govandan
19	Theory, comparison of laboratory and field compaction methods – Factors influencing compaction behaviour of soils	
20	Slope failure mechanisms – Types - infinite slopes – finite slopes – Total stress analysis for saturated clay – Fellenius method - Friction circle method – Use of stability number - slope protection measures.	
21	Types of footings – Contact pressure distribution: Isolated footing – Combined footings – Types and proportioning –	
22	Mat foundation – Types and applications – Proportioning – Floating foundation – Seismic force consideration – Codal Provision.	
6. Concrete Technology		
23	Cement-Different types-Chemical composition and Properties - Tests on cement-IS Specifications- Aggregates-Classification-Mechanical properties and tests as per BIS Grading requirements- Water- Quality of water for use in concrete.	Mr. A. Govandan
24	Accelerators-Retarders- Plasticisers- Super plasticizers- Water proofers - Mineral Admixtures like Fly Ash, Silica Fume, Ground Granulated Blast Furnace Slag and Metakaoline -Their effects on concrete properties	
25	Principles of Mix Proportioning-Properties of concrete related to Mix Design-Physical properties of materials required for Mix Design	
26	Design Mix and Nominal Mix-BIS Method of Mix Design - Mix Design Examples	



HOD

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PARISUTHAM INSTITUTE OF TECHNOLOGY & SCIENCE, THANJAVUR

DEPARTMENT OF CIVIL ENGINEERING

IV YEAR VII SEMESTER

TATS-5

Estimation-I

Duration: 50 Mins

Max. Marks: 20

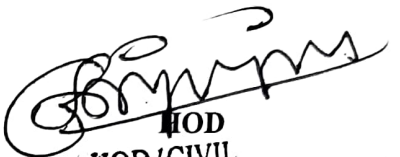
PART-A

Answer the following questions

4 X 5 = 20 Marks

1. Calculate the number of bricks required for the brick wall of $10\text{m} \times 3\text{m} \times 0.3\text{m}$.
2. Calculate the volume of cement mortar required for the brick wall of $10\text{m} \times 3\text{m} \times 0.3\text{m}$.
3. Calculate the equivalent of 1 bar into N/mm^2 .
4. Calculate the equivalent of 1 Mpa into N/mm^2 .

TATS CO-ORDINATOR


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