



**PARISUTHAM INSTITUTE OF TECHNOLOGY AND SCIENCE**  
(Approved by AICTE, Affiliated to Anna University, Chennai, India)  
NH 67, Ring Road, Nanjikottai, Thanjavur- 613006, Tamil Nadu

**GUIDANCE FOR COMPETITIVE  
EXAMINATIONS AND CAREER  
COUNSELLING OFFERED BY THE  
INSTITUTION**

**ACADEMIC YEAR 2016-2017**

# **GUIDANCE FOR COMPETITIVE EXAMINATIONS**

## **TECHNICAL APTITUDE TRAINING SESSION (TATS)**

### **Goal**

The main objectives of conducting TATS in our college are as follows

- To persuade the students to possess a sound technical knowledge in the area of study
- To enhance the programming skills of students
- To train the students in time- bound answering of aptitude tests
- To help students excel in language and communication skills
- To prepare the students for different levels of selection process such as group discussions and one-to- one interviews
- To help boost the students' confidence level through soft skills training
- To inculcate the importance of projecting a smart appearance
- To groom the students to the corporate level
- To ensure that all eligible students are employed by the end of the final year of study.

### **The Context**

TATS are designed to identify suitable candidates for technical roles within the emergency services and engineering jobs.



### **THE PRACTICE**

#### **Coaching**

- Provide coaching to ensure the improvement to students' scores.
- Coaching is conveyed by experienced resources in their particular field.
- Coaching is directed for final and pre final year students.
- Weekly around 150 minutes honing is led to final year students in their individual engineering field.

- Weekly around 50 minutes honing is led to pre- final year students in their individual engineering field.

## **Test**

### **To final year students:**

- Objective, detail questions which must be completed in a predefined time.
- Typically have around 50 minutes to complete each test question.
- The time limit and the level of difficulty are defined in such a way that only 1-5% of the population can correctly solve all the test questions inside the time allotment gave.
- Each test question incorporates a scenario and multiple answer options. There is only one correct answer.
- To solve a test question you need to identify one or more logical rules, engineering rules and apply them to identify the next or the 'odd-one-out' shape.
- For detail questions, they need to compose correct clarification.

### **To pre-final year students:**

- Objective questions which must be completed in a predefined time.
- Typically have around 50 minutes to complete each test question.
- The time limit and the level of difficulty are defined in such a way that only 1-5% of the population can correctly solve all the test questions inside the time allotment gave.
- Each test question incorporates a scenario and multiple answer options. There is only one correct answer.
- To solve a test question you need to identify one or more logical rules, engineering rules and apply them to identify the next or the 'oddball' shape.

## **Answer Key Discussion**

- Answer key discussion is coordinated for 50 minutes.
- In this area, clear clarification will be given by experienced assets in their particular field.
- At similar time, questions will be cleared, which helps them to fathom more inquiries in future.



**PARISUTHAM INSTITUTE OF TECHNOLOGY AND SCIENCE**  
**DEPARTMENT OF MECHANICAL ENGINEERING**  
**III YEAR/VI SEM - (2016-2017)**  
**TECHNICAL APTITUDE TRAINING SESSION (TATS)**  
**LESSON PLAN**

Lecture No	SUBJECT	TOPICS TO BE COVER	Handled by
1.	KINEMATICS OF MACHINERY	Basics of mechanisms	Mr.G.SINGARAVELAN
2.	KINEMATICS OF MACHINERY	Velocity analysis using instantaneous centers	
3.	KINEMATICS OF MACHINERY	Cam	
4.	STRENGTH OF MATERIALS	Stress, strain young's modulus and Hooks law	
5.	STRENGTH OF MATERIALS	Relation of Bulk modulus ,Shear modulus and young's modulus	
6.	STRENGTH OF MATERIALS	Spring	
7.	STRENGTH OF MATERIALS	Thin cylinder	
8.	STRENGTH OF MATERIALS	Torsion	
9.	MANUFACTURING TECHNOLOGY-II	Conventional machining and Unconventional machining process.	
10.	MANUFACTURING TECHNOLOGY-II	Shaper and planner	
11.	MANUFACTURING TECHNOLOGY-II	CNC Machines	Mr.I.JUSTIN ANTONY RAJ
12.	ENGINEERING MECHANICS	Lami's theorem, Parallelogram law	
13.	ENGINEERING MECHANICS	Equilibrium of a particle	
14.	ENGINEERING MECHANICS	Centroid and centre of the gravity	
15.	ENGINEERING MECHANICS	Dynamics of particles	
16.	CAD/CAM	Various types of geometric modeling	
17.	ENGINEERING THERMODYNAMICS	First law thermodynamics and Ideal & Real gases	
18.	ENGINEERING THERMODYNAMICS	Thermodynamic Equilibrium State, path and process.	
19.	ENGINEERING THERMODYNAMICS	Applications of second law thermodynamics -problems	
20.	FLUID MECHANICS AND MACHINERY	Properties of fluids.	
21.	FLUID MECHANICS AND MACHINERY	Dimensional Analysis	Mr.N.RAJESH
22.	FLUID MECHANICS AND MACHINERY	Performance of Pump.	
23.	MANUFACTURING TECHNOLOGY-I	Metal casting processes	
24.	MANUFACTURING TECHNOLOGY-I	Manufacture of plastic components	
25.	MANUFACTURING TECHNOLOGY-I	Welding	
26.	THERMAL ENGINEERING-I	Otto cycle, Diesel cycle and Dual cycle	
27.	THERMAL ENGINEERING-I	Classification of compressor	
28.	THERMAL ENGINEERING-I	Volumetric and Isothermal efficiency of compressor	
29.	THERMAL ENGINEERING-I	Steam turbine	
30.	ENGINEERING METALLURGY	Iron carbon equilibrium diagram	
31.	ENGINEERING METALLURGY	Classification of cast iron	
32.	ENGINEERING METALLURGY	Mechanical properties materials	

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**HOD/MECH**

## TATS QUESTION PAPERS



**PARISUTHAM INSTITUTE OF TECHNOLOGY & SCIENCE, THANJAVUR**  
**DEPARTMENT OF MECHANICAL ENGINEERING**  
**IV YEAR VIII SEMESTER AY 2016-2017**

<b>TECHNICAL APTITUDE TEST (TAT)</b>	<b>Name:</b>
	<b>D.No :</b>
<b>TOPIC: Engineering Materials and Metallurgy</b>	<b>Date :</b>

PART B (4 x 5 = 20 MARKS)

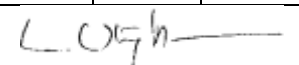
- 1.Explain the different types of steel
- 2.Explain the different types of cast iron
- 3.Explain the iron carbon equilibrium diagram
- 4.State properties of cast iron

**TAT/MECH CO-ORDINATOR**

**HOD/MECH**

**LIST OF STUDENTS WITH MARKS**

S.NO	REG.NO	NAME	TAT1	TAT2	TAT3	TAT4	TAT 5	TAT 6
1.	821313114001	Aasish daniel.P	80	78	35	58	32	65
2.	821313114002	Anandhkumar.K	80	70	40	65	85	89
3.	821313114003	Arikrishnan.S	92	92	33	89	65	85
4.	821313114004	Arockia lenin.A	42	54	67	25	87	97
5.	821313114005	Arulanantham.N	70	98	65	47	48	45
6.	821313114006	Arunkumar.G	64	88	49	85	59	85
7.	821313114007	Ashokkumar.Y	A	A	A	69	68	69
8.	821313114008	Aswin anand.C	72	47	49	A	75	62
9.	821313114009	Bharath.V	72	49	87	25	25	65
10.	821313114010	Chozhan.S	76	37	49	69	89	89
11.	821313114011	Chiristofar.V	80	60	A	54	65	65
12.	821313114012	Dhivya bharathi.R	68	50	60	25	74	47
13.	821313114013	Felix.A	60	47	40	84	85	85
14.	821313114014	Ganesh.P	76	60	67	A25	96	96
15.	821313114015	Gobinath.T	62	60	60	89	58	35
16.	821313114016	Gokulnathan.V	60	A	60	63	25	96
17.	821313114017	Hariharan.N	60	60	29	65	87	54
18.	821313114018	Kittu.N	A	45	52	47	45	85
19.	821313114019	Manikandan.N	64	A	65	85	69	25
20.	821313114020	Manivannan.R	A	19	68	25	87	87
21.	821313114021	Maria rony fedrick.S	62	60	69	69	25	42
22.	821313114022	Maria tony franklin.S	A	25	54	87	87	58
23.	821313114023	Marimuthu.R	62	47	58	52	85	96
24.	821313114024	Masha.A	A	42	69	63	85	58
25.	821313114025	Najim navaz.S	62	60	25	25	96	74
26.	821313114026	Naveen.R	6	24	68	89	98	85
27.	821313114027	Prashanth prince barnaba.S	88	60	69	25	78	6925
28.	821313114028	Praveenkumar.A	A	A	58	87	52	89
29.	821313114029	Raama sreenivasan	88	65	25	42	54	63
30.	821313114030	Raja manickam.s	76	65	69	59	89	24
31.	821313114031	Rameshkumar.C	74	60	25	65	69	87
32.	821313114032	Rangarajan.R	82	60	84	87	87	85
33.	821313114033	Sarlesraj.A	60	65	89	45	85	23
34.	821313114034	Sathan raj.V	4	70	56	89	82	58
35.	821313114035	Sathriyan.M	4	64	57	56	85	96
36.	821313114036	Surya Prasath.M	68	67	58	85	78	35
37.	821313114037	Udhayakumar.K	86	60	59	69	25	47
38.	821313114038	Vasanth.D	A	A	54	63	36	85
39.	821313114039	Velmurugan.A	82	49	52	25	38	25
40.	821313114040	Venkatesh.G	A	64	56	32	39	89
41.	821313114041	Vetriselvan.S	70	42	25	45	34	65
42.	821313114042	Vignesh.V	83	60	45	58	37	47
43.	821313114043	Vivek.V	70	70	87	45	38	85
44.	821313114301	Balaji.S.G.M	66	65	89	96	69	23
45.	821313114302	Dinesh Raja.P	76	A	56	54	58	69
46.	821313114303	Gowrishankar.R	68	A	52	78	25	85
47.	821313114304	Maniyarasan.R	2	65	54	56	98	36
48.	821313114305	Pragadeesh.R	72	62	58	95	14	82
49.	821313114306	Praveen.S	78	60	56	27	98	64
50.	821313114307	Udhayakumar.L	88	60	57	58	96	85

**HOD/MECH**

# ATTENDANCE AND ASSESSMENT RECORD

(Practical Course)

P I T S ■ ■



## PARISUTHAM INSTITUTE OF TECHNOLOGY AND SCIENCE

THANJAVUR - 613 006

Name & Department  
of the Staff

Jaget. A S  
Kathiraman. V  
Department of Mechanical

Subject Code / Name

: TAT

Branch

: MECHANICAL

Semester

: I

Acad. Year

: 2016 - 2017

# PARISUTHAM INSTITUTE OF TECHNOLOGY AND SCIENCE

THANJAVUR - 613 006

DATE: 28/10/2020

Subject : Tamil

Code :

Name of the staff : KATHIRAVAN

Branch : MECH

Total student : 47

Semester : VI

Period Time	1	2	3		4	5		6	7	8
	8.30-9.20	9.20-10.10	10.20-11.10	11.10-12.00		12.40-1.30	1.30-3.20		2.30-3.20	3.20-4.10
MON					L				B	
TUE					U				R	
WED					N				E	
THU					C	Test			A	
FRI				Test	H	Test			K	
SAT										



S.No.	D.No	Name	08/09/17	09/09/17	10/09/17	11/09/17
1	6601	Arajiodehan . K	/	/	/	/
2	6602	Anockia Navin Kumar	/	/	/	/
3	6603	Anurashwan . S	a	a	a	a
4	6604	Ashoki Kumar . S	/	/	/	/
5	6607	Chockalingam N	/	/	/	/
6	6609	Dhasmaraj . B	a	/	a	/
7	6612	Giridharan . M.S	a	a	/	/
8	6613	Indrabalao . R	/	/	/	/
9	6614	Karthick . T	/	a	a	/
10	6615	Kodiswaram . E.R	/	/	a	/
11	6616	Madhwan . S	a	a	a	/
12	6617	Mariandan . P	/	/	/	/
13	6618	Maniyazagan . R	/	/	/	/
14	6619	Mavalavan . C	/	a	a	/
15	6620	Mohamed Haslim . J	/	/	a	/
16	6621	Narasagu . T	/	a	a	/
17	6622	Nedumaran . A	/	/	/	/
18	6623	Nizangan Rajasekan S	/	/	/	/
19	6625	Panthiban . A	/	a	a	/
20	6627	Praveen Kumar . V	a	a	a	/
21	6628	Praveen . K	a	a	/	/
22	6629	Preem Kumar . K	/	/	/	/
23	6630	Rajeshwaran . S	/	a	a	/
24	6631	Raj Shankar . R	/	/	a	/
25	6632	Rakesh . M	a	a	a	/
26	6633	Sankosh Kumar . S	/	/	a	/
27	6634	Sanyasa Kumar . K	a	a	/	/
28	6635	Suresh Chandra . R	/	/	/	/
29	6637	Shannuga Nathan . V	/	/	/	/
30	6638	Shannuga Sundaram . R	a	a	a	/
31	6642	Thiruvattipathan . R	/	/	/	/
32	6644	Venataraghavan . K	/	a	a	/
33	6645	Ventatish Raj . P	a	a	/	/
34	6646	Ventakish . R	/	/	/	/
35	6647	Ventakish . M	/	/	/	/

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**PARISUTHAM INSTITUTE OF TECHNOLOGY AND SCIENCE**  
**DEPARTMENT OF EEE**  
**IV YEAR/VIII SEM - EINSTEIN BATCH (2016-2017)**  
**TATS LESSON PLAN**

LECTURE NO	CONTENT OF LECTURE	HANDLED BY
<b>Microprocessor (8085&amp;8086 )</b>		
1	Arithmetic Operations of 8085 Microprocessor	Ms.S.Shanmuga Priya
2	Logical Operations of 8085 Microprocessor	
3	Maximum and Minimum of Numbers	
4	Ascending and Descending Order of Numbers	
5	Rotate Instructions in Processor	
6	Code Conversions : ASCII to HEX & HEX to ASCII	
7	Code Conversions : BCD to HEX & HEX to BCD	
8	Move a Data without Overlap in Processor	
9	Stepper Motor Interfacing	
10	Arithmetic Operations of 8086 Processor	
11	Square of Numbers programming in 8086 processor	
12	Cube of Numbers in 8086 processor	
<b>Embedded Hardware/Software</b>		
13	Arm Processor	Mr.S.Karthikeyan
14	Instruction Set	
15	Instruction Set	
16	Priority Based Scheduling	
17	Huffman Technique	
18	Analog to Digital Conversion (ADC)	
19	Digital to Analog Conversion (DAC)	
20	LCD Interfacing	
21	Model Train Control System	
22	Read and Write Codes	
23	Interfacing LED and PWM	
24	Interfacing real-time clock and serial port	
<b>Computer Networks</b>		
25	Network hardware	Ms.M.Benazir
26	Network software	
27	Protocols	
28	Protocol Architecture	
29	MAC Protocol	
30	Routing	
31	Network layer	
32	Transport layer	
33	Application layer	
34	Wireless LAN	
35	Ethernet	
36	Bluetooth	

**HOD/EEE**

**TATS QUESTION PAPERS**

 <b>PARISUTHAM INSTITUTE OF TECHNOLOGY &amp; SCIENCE, THANJAVUR</b> <b>DEPARTMENT OF ELECTRONICS &amp; COMMUNICATION ENGINEERING</b> <b>IV YEAR VIII SEMESTER</b>	
<b>TECHNICAL APTITUDE TEST (TAT) ASSESSMENT – II</b>	<b>Name:</b>
	<b>D.No :</b>
<b>TOPIC: The 8085 &amp; 8086 Microprocessor</b>	<b>Date :</b>

**PART B (4 x 5 = 20 MARKS)**

1. Write an assembly language program for performing the Ascending order of numbers using 8085 Microprocessor.
2. Write an assembly language program for performing the Descending order of numbers using 8085 Microprocessor.
3. Write an assembly language program for performing the Maximum of numbers using 8086 Microprocessor.
4. Write an assembly language program for performing the Minimum of numbers using 8086 Microprocessor.



**TAT/EEE CO-ORDINATOR**



**HOD/EEE**

### LIST OF STUDENTS WITH MARKS

S.NO	D.NO	NAME	TAT1	TAT2	TAT3	TAT4
1.	1501	ASSHETHA.V	45	40	50	12
2.	1503	BERNISHA.M	20	50	55	44
3.	1504	BHARATHI.R	25	35	10	12
4.	1505	DINEES JENITA.A	55	30	70	72
5.	1507	KAMALNATH.K	AB	25	AB	04
6.	1508	KARTHIGEYAN.G	30	AB	AB	0
7.	1509	MADHUBASHINI.S.A	30	50	55	60
8.	1510	MEENA.G	50	65	70	60
9.	1511	MEENA.N	50	45	55	82
10.	1513	PORCHELVI.R	55	45	AB	44
11.	1514	PRAKASH.E.L.A	40	AB	AB	16
12.	1515	PREETHINICA.E	70	70	55	80
13.	1516	SELVABHARATHI.B	55	50	60	56
14.	1517	SELVAPRAKASH.J	25	20	AB	60
15.	1519	VIJAYA KUMAR.D	45	AB	AB	40
16.	1520	VINCY SNEGA.C	70	55	60	64



HOD/EEE



# ATTENDANCE AND ASSESSMENT RECORD

(Theory Course)

P I T S



## PARISUTHAM INSTITUTE OF TECHNOLOGY AND SCIENCE

THANJAVUR - 613 006

Name & Department  
of the Staff

: MS. S. SHANMUGAPRIYA  
EEE

Subject

: TATS

Branch

: EEE

Semester

: VIII

Acad. Year

: 2016-2017

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# Test / Assignment Marks

D.No	Name	TAT1	TAT2	TAT3	TAT4
1501	ASSHETHA.V	45	40	50	12
1503	BERNISHA.M	20	50	55	44
1504	BHARATHI.R	25	35	10	12
1505	DINEES JENITA.A	55	30	70	72
1507	KAMALNATH.K	AB	25	AB	04
1508	KARTHIKEYAN.G	30	AB	AB	0
1509	MADHUBASHINI.S.A	30	50	55	60
1510	MEENA.G	50	65	70	60
1511	MEENA.N	50	45	55	82
1513	PORCHELVI.R	55	45	AB	44
1514	PRAKASH.F.L.A	40	AB	AB	16
1515	PREETHINICA.E	70	70	55	80
1516	SELVABHARATHI.B	55	50	60	56
1517	SELVAPRAKASH.J	25	20	AB	60
1519	VIJAYAKUMAR.D	45	AB	AB	40
1520	VINCY SNEHA.C	70	55	60	64



# **CAREER GUIDANCE PROGRAMME OFFERED BY** **THE INSTITUTION**

**ACADEMIC YEAR 2016-2017**



20.2.17 - Mr. Venkatesh Rajan, Verbal Faculty, MANYA, The Princeton Review, Trichy delivered a lecture on STUDY ABROAD.



24.8.16 - "A case study on Smart City - San Diego" - Guest lecture by Dr. G. Krishnamurthy, Emeritus Professor of San Diego State University, USA.





**"Career Development Technique" by Dr.N.Shiva Kumar of Shivas Foundation, Chennai - 5th & 6th August**



**Mr.V.UDAYA SANKAR, SECTOR SKILL COUNCIL, NASSCOM addressed the Final Year and Pre-Final Year students on 13th Septemeber 2016.**



**Mock Group Discussion Session on 19th July 2016**