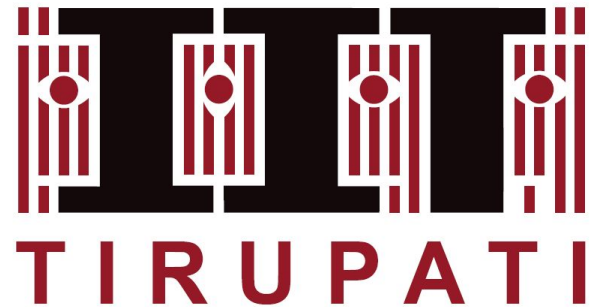


# B.Tech Program Ordinances and Regulations

भारतीय प्रौद्योगिकी संस्थान तिरुपति



**Rama Krishna Gorthi**  
Dean, Academic Affairs

# B.Tech Schedule

## Steps

- Orientation & induction
- Faculty Advisor
- Academic calendar and Time Table
- Course Registration and Enrolment
- Courses - Core / Electives
- Minors
- Life Skills Courses (30 hours)
- NSS/NSO/NCC (90 hours)
- Project work - Internship (short/long term)
- Major Degree

# Faculty Advisor

- Plan course of study
- General advice on academic program
- Department will nominate one faculty
- You will receive an email shortly
- For any questions please contact them for help

# Academic Calendar

- [Available on Institute Website \(July - Dec 2025\)](#)

# Academic Calendar

Days	Date	Jul-25	Date	Aug-25	Date	Sep-25	Date	Oct-25	Date	Nov-25	Date	Dec-25					
Sat										1							
Sun										2							
Mon					1	19				3	Wednesday Timetable 60	1					
Tue	1				2	20				4	61	2					
Wed	2				3	21	1	BAP Meeting 40		5	Guru Nanak's Birthday	3					
Thu	3				4	22	2	Gandhi Jayanti/Dussehra		6	Opening of Course registration for next semester 62	4	Last date for handing over End Sem paper				
Fri	4		1		5	Milad-un-Nabi	3	41		7	Opening of FCF submission link 63	5	Last date for submission of Grades to Department				
Sat	5		2		6		4			8		6					
Sun	6	Muharram	3		7		5			9		7					
Mon	7		4	Commencement of Classes 1	8	Test-I Examinations SLOT-A		23	6		42	10	Senate Meeting 64	8	Last date for conducting CCM-III		
Tue	8		5	Last date of Enrollment 2	9	SLOT-B	Examinations Time (08:00 AM to 09:00 AM)	24	7		43	11	Friday Timetable 65	9	Last date for submission of Grades to Academics		
Wed	9		6		10	SLOT-C		25	8	Last date for dropping of courses 44	12		66	10	Vacation commences		
Thu	10		7		11	SLOT-D		26	9	Test-II Examinations SLOT-A		45	13		67	11	
Fri	11		8		12	SLOT-E		27	10	SLOT-B		46	14		68	12	
Sat	12		9		13				11	SLOT-C			15			13	
Sun	13		10		14				12				16			14	
Mon	14		11	Last date for Enrollment with fine Rs. 1000/- 6	15	SLOT-F		28	13	SLOT-D		47	17	Compilation of Attendance 69	15		
Tue	15		12		16	SLOT-G		29	14	SLOT-E		48	18	Last Instructional Day/ last date for FCF submission. 70	16	Result Declaration	
Wed	16		13	Last date for adding courses 8	17	SLOT-H		30	15	SLOT-F		49	19	Slot- A	17	Opening of registration for supplementary examinations with applicable fee	
Thu	17		14		18	Opening of applications for MS/PhD 9		31	16	SLOT-G		50	20	Slot- B	18		
Fri	18		15	Independence Day	19			32	17	SLOT-H		51	21	Slot- C	19		
Sat	19		16		20				18			22			20		
Sun	20		17		21				19			23			21		
Mon	21		18	Last date for CCM-I 10	22			33	20	Diwali (Deepavali)		24	Slot- D	22			
Tue	22		19		23			34	21			25	Slot- E	23	Last date for registration of supplementary examinations with applicable fee		
Wed	23		20		24	Last date for handing over Test-I paper 35			22		52	26	Slot- F	24			
Thu	24		21		25	Last date for conducting CCM-II 36			23		53	27	Slot- G	25	Christmas Day		
Fri	25	Vacation Ends	22		26	Submission of teaching load for next semester 37			24	Submission of MOOC List for next semester 54		28	Slot- H	26	Last date to apply for Ph.D. upgradation		
Sat	26		23		27				25			29		27			
Sun	27		24		28				26			30		28	Supplementary Examinations FN: Slot A AN: Slot B		
Mon	28	BAP Meeting	25		29			38	27	Finalization of TT for next semester 55		29		29	FN: Slot C AN: Slot D		
Tue	29		26	Submission of internship Grades/ Senate Meeting 16	30	Update the attendance in ERP & alert on poor attendance 39			28			30		30	FN: Slot E AN: Slot F Start of Enrollment for next semester		
Wed	30	Entrollement starts for the current semester	27	Ganesh / Vinayaka Chaturthi					29			31		31	FN: Slot G AN: Slot H Vacation Ends		
Thu	31		28						30								
Fri			29						31								
Sat			30														
Sun			31														
Working Days		0		18		21		20		11							
Cumulative Working Days		0		18		39		59		70							

# Curriculum

- [Available on website](#)

# First Semester Courses (22 credits)

B.Tech Curriculum (2023 onwards)

Sl No.	Course	L-T-P-C
Semester 1		
1	Chemistry for Engineers	2-1-0-3
2	Physics Laboratory/Chemistry Laboratory	0-0-3-2
3	Engineering Mathematics -1	3-1-0-4
4	Computer Programming	2-0-3-4
5	Engineering Mechanics	2-1-0-3
6	Introduction to Electrical Systems	2-0-0-2
7	Concepts in Engineering and Design	1-0-2-2
8	Language Course (P/F)	2-0-0-2
	NCC/NSS*	
	Creative Arts / Physical Wellness / Lifestyle Management Course*	
	Semester Credits (Cumulative Credits)	22 (22)

# Second Semester Courses (21 credits)

Semester 2		
1	Introduction to Classical Physics	2-1-0-3
2	Chemistry Laboratory/Physics Laboratory	0-0-3-2
3	Engineering Mathematics -2	3-0-0-3
4	Engineering Drawing	1-0-3-3
5	Makers Laboratory	0-0-3-2
6	Introduction to Electronics	2-0-0-2
7	Ecology, Environment and Sustainability	2-0-0-2
8	Signals and Systems	3-1-0-4
Semester Credits (Cumulative Credits)		21 (43)
Summer – Socially/locally relevant project under NSS		

\* The minimum requirements i.e., 90 hours for NSS and 30 hours for Creative arts/Physical Wellness/Lifestyle Management must be completed before the enrolment for Semester 5.

# Time Table

- Available on Institute Website : [Link](#)



# Classroom & Instructor details

L-T-P-C stands for L=LECTURE, T-TUTORIAL, P-PRACTICAL, C=CREDITS

## Common Courses for B.Tech (Semester-I)

Sl No	Course Code	Course Name	L-T-P-C	Course Instructor	Slot	Classroom
1	CY103P	Chemistry Laboratory	0-0-3-2	Dr. Sudhakar Pagidi, Dr. Mahendra Kumar Sharma, Dr. Sattwick Halder	P1(EE), T1(CS)	
2	CY104L	Chemistry For Engineers	2-1-0-3	Dr.Venkaiah Chintalapudi, Dr. Sourav Chakraborty, Dr. Kaushik Pal	A	LHC-CR211
3	ES101M	Concepts In Engineering And Design	1-0-2-2	Dr. Gurugubelli Vijaya Kumar, Dr. Subbareddy Daggumati, Dr. N N Kishore, Prof. Katha Anki Reddy	R1	LHC-CR211
4	ES104M	Computer Programming	2-0-3-4	Dr. Gadhamsetty Ramakrishna	F, P1(CS), Q1 (CE & CH), S1 (ME & EP ), T1(EE)	LHC-CR211
5	ES105L	Foundations Of Engineering Mechanics	2-1-0-3	Dr. Bijily Balakrishnan	C	LHC-CR211
6	ES106L	Introduction To Electrical Systems	2-0-0-2	Dr. Prashanth Vooka	D	LHC-CR211
7	HS101N	Proficiency in English	2-0-0-2	Dr. Bibhuti Mary Kachhap	G	LHC-CR001
8	HS102N	Basic Course in German	2-0-0-2	Dr. Arniker Hamsa	G	LHC-CR105
9	HS103N	Basic Course in Japanese	2-0-0-2	Shri. M. Shoaib	G	LHC-CR101
10	HS104N	Basic Course in Sanskrit	2-0-0-2	Dr. OPG Kalyan Sastry	G	LHC-CR210
11	HS105N	Basic Course in Spanish	2-0-0-2	Shri. V. I. Prasanna Deep	G	LHC-CR206
12	MA103L	Engineering Mathematics I	3-1-0-4	Dr. B Ravinder, Srijanani Anurag Prasad	B	LHC-CR211
13	PH103P	Physics Laboratory	0-0-3-2	Dr. Arijit Sharma, Dr. Reetesh Kumar	P1 (ME & EP), T1 (CE & CH)	

# Course Registration on ERP

The screenshot displays the Indian Institute of Technology Tirupati ERP system interface. At the top, the IIT Tirupati logo and name are visible, along with the unit selection dropdown set to "Indian Institute of Technology Tiru" and the academic year "2022-23". The main navigation menu is open, showing a sidebar with icons for home, calendar, profile, documents, and refresh. The "ACADEMICS" menu item is highlighted in yellow. The main content area is titled "Academics" and lists several options: "Masters" (with a sub-link "Course Master (Stud ..)"), "Academics" (with sub-links "Course Registration ..", "Add/Drop Registratio..", "Semester offerings (..", "My MOOC Courses", and "My Courses (Student)"), and "Services" (with a sub-link "Academic Ticketing S..").

# Course Registration on ERP

The last date for approval of course registration by the Faculty Adviser is 22-11-2022

Student Details: ME19B011 : CHILUKURI NAGA VENKATA DHEERAJ [My Registrations](#) [Help](#)

Registration Details: B.Tech / 2019-20 / Mechanical Engineering / Sem :7 [Register IITT Courses](#)

Faculty Adviser: SUBBAREDDY DAGGUMATI [Register Non-IITT Courses](#) [Register MOOCs](#)

Jan - June 2023

Type	Cr	Slot L-T-P	Sem

Select Courses as per the Curriculum and the Timetable

Department: Chemical Engineering

Courses Offered in Chemical Engineering

	Cr	Slot L-T-P
CH306P : REACTION ENGINEERING LABORATORY <a href="#">Register</a>	2	S1
CH492G : PROJECT PHASE-II <a href="#">Register</a>	6	X
CH504L : INTRODUCTION TO COLLOIDS AND INTERFACES <a href="#">Register</a>	3	E
CH493G : INDUSTRIAL LECTURE <a href="#">Register</a>	1	X
CH507L : BIOPROCESS INTENSIFICATION AND INTEGRATION <a href="#">Register</a>	3	A
CH502L : OPTIMIZATION TECHNIQUES <a href="#">Register</a>	3	F
CH501L : MICROSCALE UNIT OPERATIONS <a href="#">Register</a>	3	G
CH504L : BIOPROCESS ENGINEERING <a href="#">Register</a>	3	A

# Course Registration on ERP

The last date for approval of course registration by the Faculty Adviser is 22-11-2022

File backed up to : code\_backup/litirupati\_Mod\_acad\_iltip\_registration\_2022\_11\_14\_07\_18\_59\_Shown\_to\_students.php

Student Details	CE16B025 : RAJESH GUNTA	My Registrations	Help	Students Form
Registration Details	B.Tech / 2016-17 / Civil Engineering / Sem :13	Register IITT Courses		
Faculty Adviser	B KRISHNA PRAPOORNA	Register Non-IITT Courses	Register MOOCs	

Jan - June 2023

Type	Cr	Slot L-T-P	Sem
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MooC Registration ⚙️

Explanation (Show / Hide)

Student and course details

Student roll No • CE16B025

Student name • RAJESH GUNTA

Course By • MOOC COURSE

Selected as •

Course code •

Course name • FREE ELECTIVE  
• HUMANITIES ELECTIVE  
• DEPARTMENTAL ELECTIVE  
• EXTRA

Credits •

Regular / Backl. • REGULAR

Backlog Substitution (if any)

Submit Reset Attach..

# Curriculum Revision (2023 -24 onwards)

- ❖ **Flexible curriculum** : Flexibility for the Departments & the Students to choose the basic and emerging technology courses
- ❖ **Wholistic learning** :
  - Expanding the horizon of Science & Humanities courses : Including Computational, Sustainability etc.
  - Expanding the horizon of Engineering Science courses: with Skill based & Emerging technology courses
- ❖ **Socially relevant projects**:
  - Local / Service oriented Internship projects
- ❖ **Multiple exit options**
- ❖ **Long term industrial internship options**
- ❖ **Minor Programmes**

# The Bachelor of Technology program

The curriculum of any branch of the B.Tech programme is designed to have **a total of 150-152 credits** for the award of the B.Tech degree.

1. Humanities, Social Sciences & Arts
2. Basic Sciences, Emerging Science courses
3. Engineering Sciences & Skill based courses
4. Professional Engineering (Core, Electives, Labs, Project)
5. Free Electives (5 courses)
6. Creative Arts/Physical Wellbeing/Lifestyle Management (Life Skills) Courses (30 hours, Non-credit)
7. NSS/NSO/Socially & Locally Relevant Projects (30+30+30 hours, Non-credit)

- [B.Tech Curriculum \(IIT Tirupati\) on website](#)

# Courses on Life Skills (Creative Arts / Physical Wellbeing / Lifestyle Management)

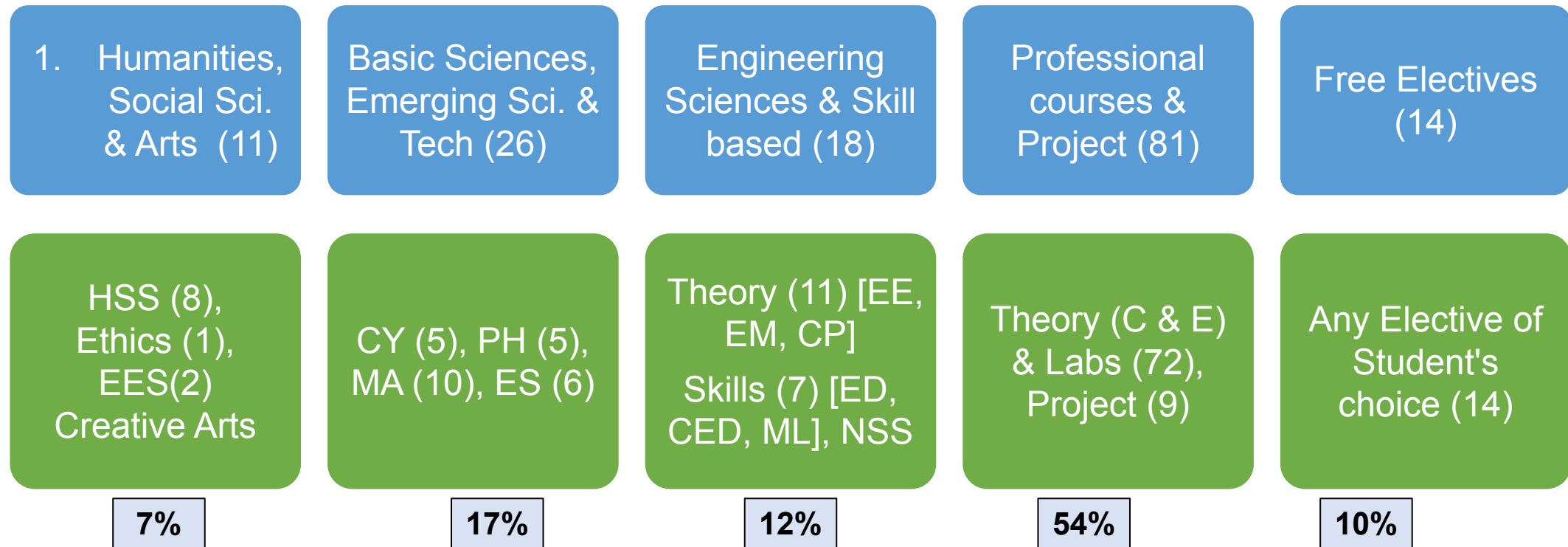
Every student entering the program has to attain a total of 30 wellness hours.

1. Happiness, Habits and Success
2. Design Thinking – Design Your Life
3. Introduction to Indian Classical Dance Forms
4. Yoga for Mental Health
5. Physical Activity
6. Music Appreciation
7. Srialahasti Kalamkari Hand Painting Craft

# IIT Tirupati B.Tech. Curriculum

Approximate credits in each category out of 150 credits

## B. Tech Curriculum Structure



# Approximate credit distribution in each semester

Semester	I	II	III	IV	V	VI	VII	VIII	Total
No. of Credits	22	21	22-24	22-24	22-24	19-21	6-8	10-12	150-152

# Year Wise Course Structure & Exit Options

<b>Exit Option</b>	<b>Year</b>	<b>Year wise split</b>
<b>Certificate of “Foundations in Engineering Sciences”</b>	<b>1 year</b>	<b>Basic Sciences</b> <b>Courses on Emerging Areas</b>
		<b>Engineering Sciences</b>
<b>Diploma in respective engineering department</b>	<b>2nd year</b>	<b>Professional Basics</b> <b>Skill based courses<sup>1,2</sup>, Community Service Project and Internship<sup>2,3</sup></b>
		<b>BSc. in the respective engineering department</b>
<b>BSc. in the respective engineering department</b>	<b>3rd year</b>	<b>Humanities (can span all years)</b> <b>Professional Courses</b> <b>Free Electives<sup>2,3,4</sup></b>
		<b>Bachelor of Technology Degree</b>
		<b>4th year</b>
		<b>Professional major</b> <b>Project</b> <b>Total (150-152 credits)</b>

# Courses on Quantum Technology, Data Sciences & Artificial Intelligence

For all students the following courses are introduced:

- Introduction to Data Science and Machine Learning
- Introduction to Quantum Science and Technology

# English Proficiency Test

- English is medium of communication
- English, a test will be conducted on [30th July 2025](#).
- It is a compulsory test. The test includes questions in grammar, vocabulary, reading & listening comprehension, writing essays
- Identify students in need of basic English course
- Those who clear the test can take other languages such as German/Sanskrit/Spanish etc.

# Elective Courses

- Department Electives (choose any 3/4/5xxx course or above from the department or approved list)
- Free Electives (choose any course including those from department)
- Up to 6 credits can be obtained from MOOCs (online offered via NPTEL)

# Evaluation of the courses

- Two tests (first year)
- Two tests or mid semester (in exceptional cases)
- End semester
- Course to course the pattern of evaluations may vary within this range.
- Weightage for Sessional Assessment (Theory Courses): 40-60%
- Weightage for End Semester Examination (Theory Courses): 40-60%
- Weightage for Sessional Assessment (Laboratory Courses): 75-100%
- Weightage for End Semester Examination (Laboratory Courses): 25% (Maximum)

# CGPA - Cumulative Grade Point Average

- The GPA will be calculated according to the formula:

$$\text{GPA} = \frac{\sum(C_i \times GP)}{\sum C_i}$$

- Where  $C_i$  = credit for the course, GP = the grade point obtained for the course, including those in which the student has secured U and W grades.
- The **CGPA based on the successfully completed courses** is calculated, deleting the 'U' or 'W' grades, and **is also shown separately in the grade card.**
- **Grade points**  
S – 10, A – 9, B – 8, C - 7, D - 6, E - 4, U - 0, W - 0, I - Incomplete

# Requirements

- Ordinances and Regulations ([Available on website](#))
- 10 credits (1<sup>st</sup>) , 25 credits (2<sup>nd</sup> ), thereafter, average of 15 credits per semester is the minimum requirement
- CGPA (cumulative grade point average) > 4.5
- Complete NCC/NSS/NSO, and Creative Arts/Physical Wellbeing course requirements by 4th and 6th Semesters, respectively.
- Normal and Maximum durations: 8 & 12 semesters

# Attendance

- A student who has an attendance lower than 80%, whatever may be the reason for the shortfall in attendance, will not be permitted to appear in the end-semester examination of the course in which the shortfall exists.

Attendance	Remarks	Code
$\geq 95\%$	Very Good	VG
80 to 94%	Good	G
$< 80\%$	Poor	P

- His/her registration for that course will be treated as cancelled, and he/she shall be awarded 'W' grade (W stands for registration cancelled for want of minimum attendance) in that subject.

# Minor in B.Tech Curriculum

- ❖ From the academic year 2024-25, [Minor programs](#) are being introduced in the B.Tech curriculum.
- ❖ The Minor will be awarded if a minimum of 12 credits (6 credits of core + 6 credits of electives) are completed from the approved Minors course list.
- ❖ The following Minors are offered by various departments.

<b>S.No</b>	<b>Minor Name</b>	<b>S.No</b>	<b>Minor Name</b>
1.	Environmental Management	6.	Literature
2.	Artificial Intelligence	7.	Economics
3.	Communication Technologies	8.	Management
4.	Computational Learning Methods	9.	Public Policy
5.	Statistics	10.	Additive Manufacturing
11.	Robotics & Autonomous Systems	12.	Green and Renewable Energy

# Project & Internship

- Project is in two phases over the 7<sup>th</sup>(Phase-I) and 8<sup>th</sup> (Phase-II) semesters
- Work with a faculty in the department from early years.
- Successfully complete and submit a report
- Department evaluates and grades
- Phase-I with C or lesser grade => 2 additional departmental electives in place of Phase-II.
- 8/24 week internship options are facilitated.

# Project - Long / Short term Internships

- In two phases over the 7<sup>th</sup>(Phase-I) and 8<sup>th</sup> (Phase-II) semesters
- Two months to Six months long term internship option is facilitated

Students will have the option to choose one of the five study plans as given below:

	Summer Internship (Min. of 8 weeks)	Extended Internship (Min. of 24 weeks)	Project 2
Study Plan A	√	×	√*
Study Plan B	√	×	×
Study Plan C	×	√	×
Study Plan D	×	×	√*
Study Plan E	×	×	×

\* For these study plans, as per the Senate resolution, it is necessary to obtain Grade B or better in Project 1 done during Semester 7.

# Change of Branch

The performance during the First Year will be the basis for consideration for change of branch. The number of students permitted for branch change will be limited to the 10% of strength.

All students who have successfully completed the first Year of the course, will be eligible for consideration for change of branch, subject to the availability of vacancies.

# Dual-Degree programme (B.Tech & M.Tech)

- Conversion from 4-Year B.Tech Programme to 5-Year Dual Degree (B.Tech & M.Tech / M.S(R)) Programme is permitted within the same Department at the end of 6<sup>th</sup> Semester, provided a student meets the following criteria:
  - should have a minimum of **8.0 CGPA (7.5 for SC/ST/PwD)** at the end of 6th Semester
  - should **not have any backlog** courses.
- Stipend (HTTA) will be paid during the 9<sup>th</sup> and 10<sup>th</sup> semesters for eligible students.

# Important Links

- ❖ *Academic Calendar:*  
<https://www.iittp.ac.in/academic-calender>
- ❖ *Ordinances & Regulations:*  
<https://www.iittp.ac.in/ordinances>
- ❖ *Courses & Time Table*  
<https://www.iittp.ac.in/btechtimetable>
- ❖ *ERP*  
<https://iittp.plumerp.co.in/prod/iittirupati/>
- ❖ *Academic services*  
<https://www.iittp.ac.in/academic-services>
- ❖ *Academic forms*  
<https://www.iittp.ac.in/academic-forms>

# Important Contacts

- ❖ *Immediate reach out Academic Affairs Secretary : [aa\\_sec@iittp.ac.in](mailto:aa_sec@iittp.ac.in)*
- ❖ *First step reachout in academics [academics@iittp.ac.in](mailto:academics@iittp.ac.in) and further [ar\\_aa@iittp.ac.in](mailto:ar_aa@iittp.ac.in) , [dr\\_aa@iittp.ac.in](mailto:dr_aa@iittp.ac.in)*
- ❖ *Reach out for any permissions / further clarifications Advisor Academic Research [aaa\\_courses@iittp.ac.in](mailto:aaa_courses@iittp.ac.in)*
- ❖ *May reach out [dean\\_aa@iittp.ac.in](mailto:dean_aa@iittp.ac.in) for any further support*
- ❖ *Academic staff details <https://www.iittp.ac.in/admin-staff>*

# Academic Section



**Dr. Rama Krishna Sai S Gorthi**  
Dean, Academic Affairs



**Dr. Durga Prasad Challa**  
Chairman, Admissions

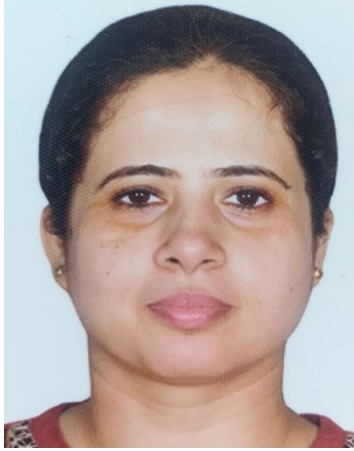


**Dr. Madan Mohan Avulapati**  
Advisor, Academic Courses



**Prof. Sunil Kumar Thamida**  
Advisor, Academic Research

# Academic Section



# Academic Section



*Academic staff details* <https://www.iittp.ac.in/admin-staff>

# Acknowledgements

- Prof K Krishnaiah
- Prof Suresh Jain
- Prof Sasidhar Gumma
- Academics Team

Good luck!

Thank You!  
😊