



RAGHU INSTITUTE OF TECHNOLOGY

AUTONOMOUS

(Approved by AICTE, New Delhi & Permanently Affiliated to JNTUK, Kakinada)
 Accredited by NBA (ECE, MECH, CSE) & NAAC with 'A' Grade, Listed u/s 2(f) & 12(B) of UGC Act 1956.
 Dakamarri, Bheemunipatnam Mandal, Visakhapatnam Dist. – 531 162, (A.P.)
 Ph: +91-8922-248003, 248013
 e-mail: principal@raghuinstech.com website:www.raghuinstech.com

First Year – First Semester

Course Code	Course Title	Periods			Maximum marks		Total	Credits
		L	T	P	Internal	External		
18EG101	English-I	3	1	-	40	60	100	3
18MA101	Mathematics -I	3	1	-	40	60	100	3
18CH101	Engineering Chemistry	3	1	-	40	60	100	3
18ME101	Engineering Mechanics	3	1	-	40	60	100	3
18ID101	Basic Electrical & Electronics Engineering	3	1	-	40	60	100	3
18CH103	Environmental Studies	3	1	-	40	60	100	3
18EG111	English Communication Skills Lab	-	-	3	60	40	100	2
18CH111	Applied / Engineering Chemistry Lab	-	-	3	60	40	100	2
18ID111	Mechanical & IT workshop	-	-	3	60	40	100	2
18HS121	Seminar: Current Affairs/Technical Topic	-	-	1	50	50	100	1
NSS / NCC / Social Services								
Total Credits								25



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First Year – Second Semester

Course Code	Course Title	Periods			Maximum Marks		Total	Credits
		L	T	P	Internal	External		
18EG201	English - II	3	1	-	40	60	100	3
18MA202	Mathematics – II (Mathematical Methods)	3	1	-	40	60	100	3
18MA203	Mathematics-III	3	1	-	40	60	100	3
18PH202	Engineering Physics	3	1	-	40	60	100	3
18CS201	C Programming	3	1	-	40	60	100	3
18ME202	Engineering Drawing	3	1	-	40	60	100	3
18PH211	Engineering /Applied Physics lab	-	-	3	60	40	100	2
18CS211	C Programming Lab	-	-	3	60	40	100	2
18ID211	Basic Electrical & Electronics Engineering Lab	-	-	3	60	40	100	2
18HS221	Seminar on Science and its Impact	-	-	1	50	50	100	1
NSS / NCC / Social Services								
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Second Year – First Semester

Course Code	Course Title	Periods			Maximum Marks		Total	Credits
		L	T	P	Internal	External		
18ME305	Java Programming	3	1	-	40	60	100	3
18ME301	Metallurgy & Material Science	3	1	-	40	60	100	3
18ME302	Mechanics of Solids	3	1	-	40	60	100	3
18ME303	Production Technology	3	1	-	40	60	100	3
18ME304	Thermodynamics	3	1	-	40	60	100	3
18HS301	Intellectual Properties and Rights	2	-	-	-	-	-	-
18ME314	Java Programming Lab	-	-	3	60	40	100	2
18ME311	Mechanics of Solids & Metallurgy Lab	-	-	3	60	40	100	2
18ME312	Production Technology Lab	-	-	3	60	40	100	2
18ME381	English for Technical Communication	0	-	1	60	40	100	1
18ME321	Seminar: Technology and its impact	-	-	1	50	50	100	1
NSS/NCC/Social Services								
Total Credits								23



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Second Year – Second Semester

Course Code	Course Title	Periods			Maximum Marks		Total	Credits
		L	T	P	Internal	External		
18ME401	Fluid Mechanics & Hydraulic Machinery	3	1	-	40	60	100	3
18ME402	Machine Tools and Metrology	3	1	-	40	60	100	3
18ME403	Thermal Engineering – I	3	1	-	40	60	100	3
18HS302	Managerial Economics & Financial Accountancy	3	1	-	40	60	100	3
18ME404	Kinematics of Machinery	3	1	-	40	60	100	3
18HS402	Professional Ethics and Human Values	2	-	-	-	-	-	-
18ME411	Fluid Mechanics & Hydraulic Machinery Lab	-	-	3	60	40	100	2
18ME412	Machine Tools and Metrology Lab	-	-	3	60	40	100	2
18ME413	Computer Aided Machine Drawing	-	-	3	60	40	100	2
18EG481	English for Employability	-	-	1	60	40	100	1
18ME421	Technical Seminar-I	-	-	1	50	50	100	1
NSS/NCC/Social Services								
Total Credits								23



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Third Year – First Semester

Course Code	Course Title	Periods			Maximum Marks		Total	Credits
		L	T	P	Internal	External		
18ME501	Design of Machine Members-I	3	1	-	40	60	100	3
18ME502	Dynamics of Machinery	3	1	-	40	60	100	3
18ME503	Thermal Engineering – II	3	1	-	40	60	100	3
18ME504	CAD/CAM	3	1	-	40	60	100	3
18ME533	Professional Elective-I: Production Planning & Control	3	1	-	40	60	100	3
18ME511	Thermal Engineering Lab	-	-	3	60	40	100	2
18ME512	CAD/CAM Lab	-	-	3	60	40	100	2
18ME513	Theory of Machines Lab	-	-	3	60	40	100	2
18ME561	Mini Project-I	3			30	70	100	2
18ME521	Technology Review and Seminar-I	-	-	1	50	50	100	1
18ID581	Quantitative and Reasoning Ability	1	-	-	40	60	100	1
NSS/NCC/Social Services								
Total Credits							25	



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Third Year – Second Semester

Course Code	Course Title	Periods			Maximum Marks		Total	Credits
		L	T	P	Internal	External		
18ME601	Heat transfer	3	1	-	40	60	100	3
18ME602	FEM	3	1	-	40	60	100	3
18ME603	Industrial Management	3	1	-	40	60	100	3
18ME604	Design of machine members – II	3	1	-	40	60	100	3
18ME63X	Professional Elective-II	3	1	-	40	60	100	3
18ME611	Heat Transfer Lab			3	60	40	100	2
18ME612	FEA Lab			3	60	40	100	2
18ME651	Skill Course Lab – I	-	-	3	60	40	100	2
18ME621	Technology review & Seminar -II	-	-	1	50	50	100	1
NSS/NCC/Social Services								
Total Credits								24

PROFESSIONAL ELECTIVES

GROUP 1	Professional Elective I III-Year I Semester	Course code	Course title
		18ME531	Refrigeration and Air Conditioning
		18ME532	Mechanical Vibrations
		18ME533	Production Planning and Control
		18ME534	Quality and Reliability

GROUP 2	Professional Elective II III-Year II Semester	Course code	Course title
		18ME631	Power Plant Engineering
		18ME632	Composites
		18ME633	Non-Destructive Evaluation
		18ME634	Mechatronics



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Fourth Year – First Semester

Course Code	Course Title	Periods			Maximum Marks		Total	Credits
		L	T	P	Internal	External		
18ME701	Automobile Engineering	3	1	-	40	60	100	3
18ME702	Instrumentation & Control Systems	3	1	-	40	60	100	3
18MA704	Statistics Using R	3	1	-	40	60	100	3
18ME732	Professional Elective-III: Nano Technology	3	1	-	40	60	100	3
18CS741	Open Elective-I: Programming with Python	3	1	-	40	60	100	3
18ME711	I&CS Lab	-	-	3	60	40	100	2
18MA711	Statistics Using R Lab	-	-	3	60	40	100	2
18ME751	Skill Course Lab – II	-	-	3	60	40	100	2
18ME761	Mini Project-II	3			30	70	100	2
18ME721	Technology review & Seminar - III	-	-	1	50	50	100	1
Total Credits								22



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PROFESSIONAL ELECTIVES

GROUP 1	Professional Elective I III-Year I Semester	Course code	Course title
		18ME531	Refrigeration and Air Conditioning
		18ME532	Mechanical Vibrations
		18ME533	Production Planning and Control
		18ME534	Quality and Reliability

GROUP 2	Professional Elective II III-Year II Semester	Course code	Course title
		18ME631	Power Plant Engineering
		18ME632	Composites
		18ME633	Non-Destructive Evaluation
		18ME634	Mechatronics

GROUP 3	Professional Elective III IV-Year I Semester	Course code	Course title
		18ME731	Computation Fluid Dynamics
		18ME732	Nano Technology
		18ME733	Rapid Prototyping
		18ME734	Automation in Manufacturing

OPEN ELECTIVES

GROUP 1	Open Elective I IV-Year I Semester	Course code	Course title
		18CS741	Programming with Python
		18CE742	Environment Pollution Control
		18EE631	Solar Energy and its Applications
		18EC633	Embedded Systems

OPEN ELECTIVES offered by M.E. Department.

S.No.	Sub. Code	Name of Subject	L	T	P	Credits
1	18ME834	Green Engineering Systems	3	1	--	3
2	18 ME802	Robotics	3	1	--	3
3	18ME743	Total Quality Management	3	1	--	3
4	18 ME841	Automation in Manufacturing	3	1	--	3
5	18 ME732	Nano Technology	3	1	--	3



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IV-II SEMESTER COURSE STRUCTURE

S.No.	Subject Code	Subject	L	T	P	Credits
1	18ME801	Operations Research	3	1	--	3
2	18ME802	Robotics	3	1	--	3
3	18xx84x	Open Elective-II	3	1	--	3
4	18ME83x	Professional Elective-IV	3	1	--	3
5	18ME871	Project Work	10			10
6	18ME821	Technology Review & Seminar - IV	--	--	1	1

Open Electives-II

S.No.	Subject Code	Subject	L	T	P	Credits
1	18CS842	Software Engineering	3	1	--	3
2	18EC501	Microprocessors & Microcontrollers	3	1	--	3
3	18CE732	Air Pollution and Control	3	1	--	3
4	18EE832	Smart Grid Technology	3	1	--	3

Professional Elective-IV

S.No.	Subject Code	Subject	L	T	P	Credits
1	18ME831	Unconventional Machining Processes	3	1	--	3
2	18ME832	Total Quality Management	3	1	--	3
3	18ME833	Powder Metallurgy	3	1	--	3