



GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY
(AUTONOMOUS)

Approved by AICTE, Accredited by NBA & NAAC _A+‘ Grade, Recognized under 2(f) and 12(b) of UGC, Permanently Affiliated to JNTUK, Kakinada.

DEPARTMENT OF AUTOMOBILE ENGINEERING

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Chaitanya Knowledge City, Rajanagaram, Rajamahendravaram – 533294. E.G.Dt. - AP.



GR-19

DEPARTMENT OF AUTOMOBILE ENGINEERING

4 YEARS B.Tech. COURSE STRUCTURE & SYLLABUS

With Effective from 2019-20 Batch

GODAVARI INSTITUTE OF ENGG & TECHNOLOGY
APPROVED BY AICTE ACCREDITED BY NBA AFFILIATED TO JNTUK, KAKINADA
NIL-5, CHAITANYA KNOWLEDGE CITY, RAJAHIMUNDRY, A.P., INDIA
TEL: +91-883-2484828, 29, 30, 31 FAX: +91-883-2484739, HTTP://WWW.GIET.AC.IN

**Programme structure of
B.Tech. programme in Automobile Engineering
I YEAR I SEMESTER**

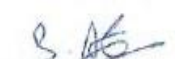
S. No.	Course Code	Course Type	Course Title	Periods per week			C	Scheme of Examination Maximum Marks		
				L	T	P		Int.	Ext.	Total
1	19198101	BSC	Mathematics-I	3	0	0	3	30	70	100
2	19198102	HSMC	Communicative English-I	3	0	0	3	30	70	100
3	19193176	PCC	Engineering Graphics	1	0	3	2.5	30	70	100
4	19198103	BSC	Engineering Chemistry	3	0	0	3	30	70	100
5	19192105	ESC	Basic Electrical & Electronics Engineering	3	0	0	3	30	70	100
6	19198194	MC	Professional Ethics & Human Values	2	0	0	0	30*	-	-
7	19198112	BSC	Engineering Chemistry Laboratory	0	0	3	1.5	50	50	100
8	19198111	HSMC	Communicative English Laboratory	0	0	3	1.5	50	50	100
9	19192113	ESC	Basic Electrical & Electronics Engineering Lab	0	0	3	1.5	50	50	100
TOTAL				15	0	12	19	300	500	800
BSC-7.5		HSMC-4.5	PCC-2.5	ESC-4.5						

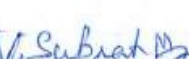
I YEAR II SEMESTER


S. No.	Course Code	Course Type	Course Title	Periods per week			C	Scheme of Examination Maximum Marks		
				L	T	P		Int.	Ext.	Total
1	19198201	BSC	Mathematics-II	3	0	0	3	30	70	100
2	19198205	BSC	Engineering Physics & its Applications	3	0	0	3	30	70	100
3	19195206	ESC	Problem Solving & Programming in C	2	1	0	3	30	70	100
4	19198202	HSMC	Communicative English-II	3	0	0	3	30	70	100
5	19198293	MC	Environmental Studies	2	0	0	0	30*	-	-
6	19193204	PCC	Engineering Mechanics	3	0	0	3	30	70	100
7	19198205	BSC	Engineering Physics Laboratory	0	0	3	1.5	50	50	100
8	19198211	HSMC	Communicative English Laboratory II	0	0	3	1.5	50	50	100
9	19195214	ESC	Problem Solving & Programming in C Lab	0	0	3	1.5	50	50	100
10	19193213	PCC	Basic Engineering Workshop	0	0	3	1.5	50	50	100
TOTAL				16	1	12	21	350	550	900
BSC-7.5		HSMC-4.5	PCC-4.5	ESC-4.5						



Dr. D. Lingaraju
(JNTUKakinada)



Dr. P. Senthil Kumar
(Madras Institute of Tech)


Sri B. Atcha Rao
(Hyundai R&D, Hyd)


Sri V. Subrahmanyam
(BOS Chairman)

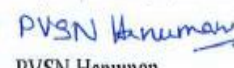

Dr. S.V.S.N. Murthy
(Vice Principal, Admin)


Sri S. Raja Sekhar
(Assoc. Professor)


Sri T.V. Dharmaraju
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P.V.S.N. Hanuman
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II YEAR I SEMESTER


S. No.	Course Code	Course Type	Course Title	Periods per week			C	Scheme of Examination Maximum Marks		
				L	T	P		Int.	Ext.	Total
1	19179301	BSC	Mathematics-III	3	0	0	3	30	70	100
2	19170302	PCC	Basic Automobile Engineering	3	0	0	3	30	70	100
3	19170303	PCC	Metallurgy & Materials Science	3	0	0	3	30	70	100
4	19170304	PCC	Mechanics of Solids	3	0	0	3	30	70	100
5	19170305	PCC	Fluid Mechanics & Hydraulic Machinery	3	0	0	3	30	70	100
6	19170386	MC	Design Thinking & Product Innovation	2	0	0	0	30*	-	-
7	19170377	PCC	Computer Aided Engineering Drawing Practice	1	0	3	2.5	30	70	100
8	19170311	PCC	Automobile Chassis Components Lab	0	0	3	1.5	50	50	100
9	19170312	PCC	Mechanics of Solids & Fluid Mechanics Lab	0	0	3	1.5	50	50	100
TOTAL				18	0	9	20.5	280	520	800
BSC-03	PCC-17.5	ESC-0	MC-0							

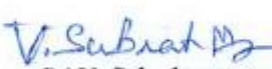
II YEAR II SEMESTER


S. No.	Course Code	Course Type	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
				L	T	P		Int.	Ext.	Total
1	19179401	BSC	Numerical Methods and Probability & Statistics	3	0	0	3	30	70	100
2	19170402	PCC	Kinematics of Machinery	3	0	0	3	30	70	100
3	19170403	PCC	Automotive Engines	3	0	0	3	30	70	100
4	19170404	PCC	Thermodynamics	3	0	0	3	30	70	100
5	19170475	PCC	Machine Drawing	1	0	3	2.5	30	70	100
6	19170466	OEC	Open Elective-I	3	0	0	3	30	70	100
7	19170411	PCC	Engine Components & Testing Lab	0	0	3	1.5	50	50	100
8	19170421	PR	Community service oriented project	0	0	1	0.5	100	-	100
TOTAL				16	0	7	19.5	330	470	800
BSC-03	OEC-03	PCC-13	ESC-0	PR-0.5						



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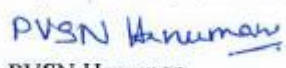

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III YEAR I SEMESTER

S. No.	Course Code	Course Type	Course Title	Periods per week			C	Scheme of Examination Maximum Marks		
				L	T	P		Int.	Ext.	Total
1	19170501	PCC	Dynamics of Machinery	3	0	0	3	30	70	100
2	19170502	PCC	Manufacturing Processes	3	0	0	3	30	70	100
3	19170503	PCC	Heat Transfer	3	0	0	3	30	70	100
4	19170564A/B/C	PEC	Professional Elective - I	3	0	0	3	30	70	100
5	19170565a/b/c	OEC	Open Elective-II	3	0	0	3	30	70	100
6	19179511	HSMC	Soft Skills Lab	0	0	3	1.5	50	50	100
7	19170512	PCC	Heat Transfer Lab	0	0	3	1.5	50	50	100
8	19170513	PCC	Basic Automobile Components Manufacturing Lab	0	0	3	1.5	50	50	100
9	19170521	PR	Mini Project - 1/Study Project / Internship	0	0	0	2	100	-	100
TOTAL				15	0	9	21.5	400	500	900
PCC-12	PEC-03	HSMC-1.5		OEC-03	PR-02					

III YEAR II SEMESTER

S. No.	Course Code	Course Type	Course Title	Periods per week			C	Scheme of Examination Maximum Marks		
				L	T	P		Int.	Ext.	Total
1	19170601	PCC	Machine Tools & Metrology	3	0	0	3	30	70	100
2	19170602	PCC	Automotive Pollution & Control	3	0	0	3	30	70	100
3	19170603	PCC	Design of Automotive Elements	3	0	0	3	30	70	100
4	19170604	PCC	Automotive Electrical & Autotronics	3	0	0	3	30	70	100
5	19170665A/B/C	PEC	Professional Elective - II	3	0	0	3	30	70	100
6	19170666a/b/c	OEC	Open Elective - III	3	0	0	3	30	70	100
7	19170687	MC	Constitution of India	2	0	0	0	30*	-	-
8	19170611	PCC	Machine Tools & Metrology Lab	0	0	3	1.5	50	50	100
9	19170621	PR	Accident Analysis	0	0	2	1	100	-	100
TOTAL				20	0	5	20.5	330	470	800
PEC-03	OEC-03	PCC-13.5	MC-0	PR-1						

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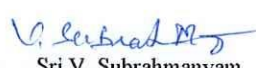





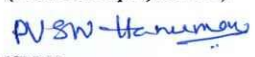
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IV YEAR I SEMESTER

S. No.	Course Code	Course Type	Course Title	Periods per week			C	Scheme of Examination Maximum Marks		
				L	T	P		Int.	Ext.	Total
1	19170701	PCC	Vehicle Dynamics	3	0	0	3	30	70	100
2	19170702	PCC	Hybrid, Electric & Fuel Cell Vehicles	3	0	0	3	30	70	100
3	19170703	PCC	Finite Element Methods	3	0	0	3	30	70	100
4	19170704	PCC	CAD/CAM	3	0	0	3	30	70	100
5	19170765A/B/C	PEC	Professional Elective - III	3	0	0	3	30	70	100
6	19170766a/b/c	OEC	Open Elective - IV(MGMT)	3	0	0	3	30	70	100
7	19170787	MC	Intellectual Property Rights and Patents	2	0	0	0	30*	-	-
8	19170711	PCC	Servicing, Maintenance & Scanning of Automobiles Lab	0	0	3	1.5	50	50	100
9	19170712	PCC	CAD/CAM Lab	0	0	3	1.5	50	50	100
10	19170721	PR	Mini Project - 2 /Study Project / Internship	0	0	0	2	100	-	100
TOTAL				20	0	6	23	380	520	900
PEC-03	OEC-03	PCC-15	PR-02	MC-0						

IV YEAR II SEMESTER

S. No.	Course Code	Course Type	Course Title	Periods per week			C	Scheme of Examination Maximum Marks		
				L	T	P		Int.	Ext.	Total
1	19170861A/B/C	PEC	Professional Elective -I V	3	0	0	3	30	70	100
2	19170862A/B/C	PEC	Professional Elective - V	3	0	0	3	30	70	100
3	19170841	PR	Project Work	-	-	18	9	80	120	200
TOTAL				6	0	18	15	140	260	400
PEC-06	PR-09									

 Dr D. Lingaraju (JNTUKakinada)	 Dr. P. Senthil Kumar (Madras Institute of Tech)	 Sri B. AtchaRao (Hyundai R&D, Hyd)	 Sri V. Subrahmanyam (BOS Chairman)	 Dr. S.V.S.N. Murthy (Vice Principal, Admin)
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