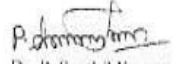
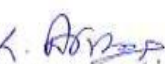


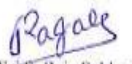
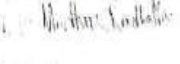
I B.Tech., I SEMESTER

S.No	Category	Course Code	Course Title	Hrs/Week			Credits	Internal	External	Total
				L	T	P				
1	BSC-1	201HB101	Mathematics-I	3	0	0	3	30	70	100
2	HSMC-1	201HB102	Communicative English-1	3	0	0	3	30	70	100
3	BSC-2	201HB103b	Engineering Chemistry	3	0	0	3	30	70	100
4	ESC-2	201EE104	Basic Electrical & Electronics Engineering	3	0	0	3	30	70	100
5	ESC-1	201ME105	Engineering Graphics	1	0	4	3	30	70	100
6	BSCL-1	201HB111b	Engineering Chemistry Laboratory	0	0	3	1.5	50	50	100
7	ESCL-1	201EE112	Basic Electrical & Electronics Engineering Laboratory	0	0	3	1.5	50	50	100
8	ESC-3	201ME113d	Basic Engineering Workshop	0	0	3	1.5	50	50	100
	BSC=7.5	ESC=9	HSMC=3	13	0	13	19.5	300	500	800

I B.Tech., II SEMESTER

S.No	Category	Course Code	Course Title	Hrs/Week			Credits	Internal	External	Total
				L	T	P				
1	BSC-3	201HB201	Mathematics-II	3	0	0	3	30	70	100
2	BSC-4	201HB202b	Engineering Physics	3	0	0	3	30	70	100
3	ESC-5	201ME203a	Engineering Mechanics	3	0	0	3	30	70	100
4	ESC-4	201CS204a	Fundamentals of Computer Programming	3	0	0	3	30	70	100
5	ESC-6	201AM205	Fundamentals of Automobile Engineering	3	0	0	3	30	70	100
6	MC-1	201HB296	Environmental Science	2	0	0	0	30*	-	-
7	BSCL-2	201HB211b	Engineering Physics Laboratory	0	0	3	1.5	50	50	100
8	HSMC-2	201HB212	Communicative English Laboratory	0	0	3	1.5	50	50	100
9	ESCL-2	201CS213a	Fundamentals of Computer Programming Laboratory	0	0	3	1.5	50	50	100
BSC=7.5	ESC=10.5	HSMC=1.5 MC=0	Total	17	0	9	19.5	300	500	800

 Dr. D. Lingaraju (JNTU Kakinada)
  Dr. P. Senthil Kumar (Madras Institute of Tech)
  Mr. B. Aicha Rao (Hyundai R&D, Hyd)
  Dr. V. Subrahmanyam (BOS Chairman)
  Dr. S.V.S.N. Murthy (Vice Principal, Admin)
  Mrs. K. Aruna (Asst. Prof)

 Sri S. Raja Sekhar (Assoc. Professor)
  Sri T.V. Dharmaraju (Asst. Professor)
  Sri M.V. Raghavendra Rao (Asst. Professor)
  Manoj Kumar Roy (Asst. Professor)
  D. Madhusudhakar (Alumnus, KIA Motors)

**GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY (A), Rajahmundry
DEPARTMENT OF AUTOMOBILE ENGINEERING**

GRBT-20 Course Structure

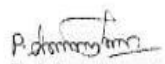
II B.Tech., I SEMESTER

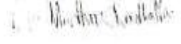
S.No	Category	Course Code	Course Title	Hrs/Week			Credits	Internal	External	Total
				L	T	P				
1	BSC-5	201HB301	Mathematics-III	3	0	0	3	30	70	100
2	ESC-6	201AM302	Metallurgy & Materials Science	3	0	0	3	30	70	100
3	PCC-1	201AM303	Strength of Materials	3	0	0	3	30	70	100
4	PCC-2	201AM304	Fluid Mechanics & Hydraulic Machines	3	0	0	3	30	70	100
5	PCC-3	201AM305	Automobile Chassis Components	3	0	0	3	30	70	100
6	PCC-L1	201AM311	Strength of Materials& Metallurgy Lab	0	0	3	1.5	50	50	100
7	PCC-L2	201AM312	Automobile Chassis Components Lab	0	0	3	1.5	50	50	100
8	PCC-L3	201AM313	Fluid Mechanics & Hydraulic Machines Lab	0	0	3	1.5	50	50	100
9	SOC-1	201HB381	English for Career	1	0	2	2	-	15+35	50
10	Proj	201AM321	Community Service Project	0	0	0	4	100	-	100
Total				16	0	11	25.5	400	550	950

II B.Tech., II SEMESTER

S.No	Category	Course Code	Course Title	Hrs/Week			Credits	Internal	External	Total
				L	T	P				
1	BSC-6	201HB401	Probability & Statistics	3	0	0	3	30	70	100
2	PCC-4	201AM402	Thermodynamics	3	0	0	3	30	70	100
3	PCC-5	201AM403	Automobile Engines	3	0	0	3	30	70	100
4	HSC-2	201ME404	Industrial Engineering & Management	3	0	0	3	30	70	100
5	PCC-6	201AM405	Automobile Electrical & Autotronics	3	0	0	3	30	70	100
6	ESC-L4	201AM411	Automobile Assembly Drawing Lab	0	0	3	1.5	50	50	100
7	PCC-L6	201AM412	IC Engines & Fuels Lab	0	0	3	1.5	50	50	100
8	PCC-L7	201AM413	Automobile Electrical & Autotronics Lab	0	0	3	1.5	50	50	100
9	SOC-2	201CS481A	Programming with Python	1	0	2	2	-	15+35	50
10	MC-2	201CE491	Constitution of India	2	0	0	0	30*	70*	100*
Total				18	0	11	21.5	300	550	850
Honor course &/Minor course (Optional)							4			

Summer Internship after second year (to be evaluated during 5thsem)

 Dr. D. Lingaraju (JNTU-Kakinada)
  Dr. P. Sentil Kumar (Madras Institute of Tech)
  Mr. B. Atchalarao (Hyundai R&D, Hyd)
  Dr. V. Subrahmanyam (BOS Chairman)
  Dr. S.V.S.N. Murthy (Vice Principal, Admin)
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  Sri M.V. Raghavendra Rao (Asst. Professor)
  Manoj Kumar Roy (Asst. Professor)
  D. Madhusudhakar (Alumnus, KIA Motors)

Subjects for Honors Degree (The student need to complete any 4 subjects from each pool& 2 related MOOCS courses during his course study and fulfill the requirements as per the regulations GRBT20)

Pool 1	Pool 2	Pool 3	Pool 4
Two & Three wheeler Technology	Special Purpose Vehicles	Automotive Electronics for Electric Vehicles	Automotive Embedded Systems
Modern Vehicle Design	Computer Aided Vehicle Design	Automotive Aerodynamics	Race Car Design
Engine Design & Development	Industrial Automation & Robotics	Advanced Materials for Automobiles	Production of Automobile Components

Subjects offered for other branch students to acquire Minor Degree (The student need to complete any 4 subjects& 2 related MOOCS courses during his course study and fulfill the requirements as per the regulations GRBT20)

1. Basic Automobile Engineering
2. Fundamentals of Electric Vehicles
3. Automobile Electrical & Autotronics
4. Electric and Hybrid Vehicles Architecture
5. Modern Vehicle Technology
6. Electric Vehicle Design
7. Modern Vehicle Design
8. Autonomous Vehicles



Dr. D. Lingaraju
(JNTUKakinada)



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



Mr. B. Aitcha Rao
(Hyundai R&D, Hyd)



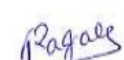
Dr. V. Subrahmanyam
(BOS Chairman)



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



Mrs. K. Aruna
(Asst. Prof)



Sri S. Raja Sekhar
(Assoc. Professor)



Sri I.V. Dharmaraju
(Asst. Professor)



Sri M.V. Raghavendra Rao
(Asst. Professor)



Manoj Kumar Roy
(Asst. Professor)

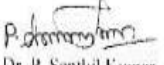
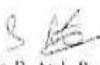
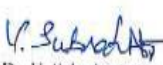


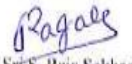
D. MadhuSudhakar
(Alumnus, KIA Motors)

GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY (A), Rajahmundry
DEPARTMENT OF AUTOMOBILE ENGINEERING
GRBT-20 Course Structure

III B.Tech., I SEMESTER

S. No	Category	Course Code	Course Title	Hrs/Week			Credits	Internal	External	Total
				L	T	P				
1	PCC-7	201AM501	Kinematics of Machinery	3	0	0	3	30	70	100
2	PCC-8	201AM502	Production Technology	3	0	0	3	30	70	100
3	PCC-9	201AM503	Design of Automotive Elements	3	0	0	3	30	70	100
4	PEC-1	201AM564A 201AM564B 201AM564C 201AM564D	1. Hybrid, Electric & Fuel Cell Vehicles 2. Two and Three Wheelers 3. Vehicle Body Engineering & Safety 4. Measurements and Control Systems	3	0	0	3	30	70	100
5	OEC/JOE-1		Open Elective-1 (See enclosed table)	3	0	0	3	30	70	100
6	PCC-L8	201AM511	Production Technology Lab	0	0	3	1.5	50	50	100
7	PCC-L9	201AM512	Auto Scanning and Vehicle Testing Lab	0	0	3	1.5	50	50	100
8	SOC-3	201AM581	Electric Vehicle Design & Assembling	0	1	2	2	-	15+35	50
9	MC-3	201MB591	IPR and Patents	2	0	0	0	30*	70*	100*
10	Proj	201AM521	Mini Project/ Study Project	0	0	0	1.5	100	-	100
Total				16	0	11	21.5	350	500	850

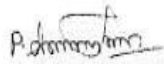
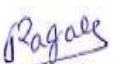
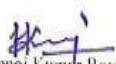
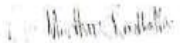
 Dr. D. Lingaraju (JNTU Kakinada)
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 Mr. B. Atchalarao (Hyundai R&D, Hyd)
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GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY (A), Rajahmundry
DEPARTMENT OF AUTOMOBILE ENGINEERING
GRBT-20 Course Structure

III B.Tech., II SEMESTER

S. No	Category	Course Code	Course Title	Hrs/Week			Credits	Internal	External	Total
				L	T	P				
1	PCC-10	201AM601	Dynamics of Machinery	3	0	0	3	30	70	100
2	PCC-11	201AM602	Heat Transfer	3	0	0	3	30	70	100
3	PCC-12	201AM603	Automotive Pollution & Control	3	0	0	3	30	70	100
4	PEC-2	201AM664A	1. CFD for Automobile Applications	3	0	0	3	30	70	100
		201AM664B	2. Alternative Energy Sources for Automobiles							
		201AM664C	3. Noise Vibrations and Harshness							
		201AM664D	4. Vehicle Maintenance							
5	OEC/JOE-2		Open Elective-2 (See enclosed table)	3	0	0	3	30	70	100
6	PCC-L10	201AM611	Theory of Machines Lab	0	0	3	1.5	50	50	100
7	PCC-L11	201AM612	Vehicle Maintenance Lab	0	0	3	1.5	50	50	100
8	PCC-L12	201AM613	Heat Transfer Lab	0	0	3	1.5	50	50	100
9	SOC-4	201AM681	Accident Analysis	0	1	2	2	-	15+35	50
10	MC-4	201HB691	Quantitative Aptitude and Reasoning	2	0	0	0	30*	70*	100*
Total				18	0	11	21.5	300	550	850
Summer Internship after third year (to be evaluated during 7th sem)										

 Dr. D. Lingaraju (JNTU/Kakinada)	 Dr. P. Sentil Kumar (Madras Institute of Tech)	 Mr. B. Aicharao (Hyundai R&D, Hyd)	 Dr. V. Subrahmanyam (BOS Chairman)	 Dr. S.V.S.N. Murthy (Vice Principal, Admin)	 Mrs. K. Aruna (Asst. Prof)
 Sri S. Raja Sekhar (Assoc. Professor)	 Sri T.V. Dharmaraju (Asst. Professor)	 Sri M.V. Raghavendra Rao (Asst. Professor)	 Manoj Kumar Roy (Asst. Professor)	 D. MadhuSudhakar (Alumnus, KIA Motors)	

**GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY (A), Rajahmundry
DEPARTMENT OF AUTOMOBILE ENGINEERING**

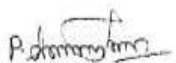
GRBT-20 Course Structure

IV B.Tech., I SEMESTER

S. No	Category	Course Code	Course Title	Hrs/Week			Credits	Internal	External	Total
				L	T	P				
1	PEC-3	201AM761A 201AM761B 201AM761C 201AM761D	1. Metal Cutting and Machine Tools 2. Automobile HVAC 3. Special Purpose Vehicles 4. Vehicle Infotronics	3	0	0	3	30	70	100
2	PEC-4	201AM762A 201AM762B 201AM762C 201AM762D	1. Automobile Certification and Homologation 2. Finite Element Analysis 3. Vehicle Transport Management 4. Electronic Engine & Vehicle Management Systems	3	0	0	3	30	70	100
3	PEC-5	201AM763A 201AM763B 201AM763C 201AM763D	1. Automobile Control Systems and Ergonomics 2. Vehicle Dynamics 3. CAD/CAM 4. Smart, Autonomous and Connected Vehicles	3	0	0	3	30	70	100
4	OEC/JOE-3		Open Electrive-3 (See enclosed table)	3	0	0	3	30	70	100
5	OEC/JOE-4		Open Electrive-4 (See enclosed table)	3	0	0	3	30	70	100
6	H&SSE	201HB796	UHV 2Understanding Harmony	3	0	0	3	30	70	100
7	SOC-5	201AM781	Additive Manufacturing	0	1	2	2	-	15+35	50
8	Proj	201AM731	Internship	0	0	0	3	100	-	100
Total				19	0	2	23	280	470	750



Dr. D. Lingaraju
(JNTU Kakinada)



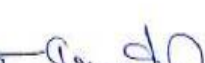
Dr. P. Senthil Kumar
(Madras Institute of Tech)



Mr. B. Aicha Rao
(Hyundai R&D, Hyd)



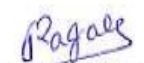
Dr. V. Subrahmanyam
(BOS Chairman)



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



Mrs. K. Aruna
(Asst. Prof)



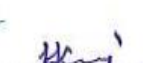
Sri S. Raja Sekhar
(Assoc. Professor)



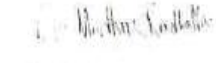
Sri T.V. Dharmaraju
(Asst. Professor)



Sri M.V. Raghavendra Rao
(Asst. Professor)



Manoj Kumar Roy
(Asst. Professor)

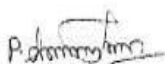


D. MadhuSudhakar
(Alumnus, KIA Motors)

IV B.Tech., II SEMESTER

S. No	Category	Course Code	Course Title	Hrs/Week			Credits	Internal	External	Total
				L	T	P				
1	Major Project	201AM841	Project work	0	0	0	8	60	140	200
			Total	0	0	0	8	60	140	200

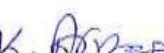

Dr. D. Lingaraju
(JNTU Kakinada)

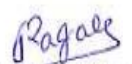

Dr. P. Senthil Kumar
(Madras Institute of Tech)


Mr. B. Atcharya
(Hyundai R&D, Hyd)


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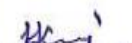

Dr. S.V.S.N. Murthy
(Vice Principal, Admin)

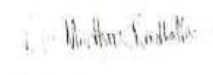

Mrs. K. Aruna
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