

**GODAVARI INSTITUTE OF ENGINEERING AND TECHNOLOGY (A),RAJAHMUNDRY
COURSE STRUCTURE (GRCA-20)**

MASTER OF COMPUTER APPLICATIONS

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

NH-16, Chaitanya Knowledge City, Rajahmundry – 533296. E.G.Dt., - AP.



DEPARTMENT OF COMPUTER APPLICATIONS

2 YEARS MCA COURSE STRUCTURE

(2020-21)

GODAVARI INSTITUTE OF ENGINEERING AND TECHNOLOGY (A),RAJAHMUNDRY
COURSE STRUCTURE (GRCA-20)

MASTER OF COMPUTER APPLICATIONS

I Year

I Semester

S. No.	Course Code	Course Title	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P		Int.	Ext.	Total
1.	20309101	Probability and Statistics	3	1	-	4	30	70	100
2.	20309102	Discrete Mathematical Structures	3	1	-	4	30	70	100
3.	20300103	Problem Solving using C & Data Structures	3	1	-	4	30	70	100
4.	20300104	Computer Organization	4	-	-	4	30	70	100
5.	20300105	Database Management Systems	4	-	-	4	30	70	100
6.	20300111	C &Data Structures Lab	-	-	3	1.5	30	70	100
7.	20300112	Database Management Systems Lab	-	-	3	1.5	30	70	100
8.	20300113	Python Programming Lab	-	-	4	2	30	70	100
Total						25	240	560	800

L- LECTURE T-TUTORIAL P – PRACTICAL C – CREDITS Int. – INTERNAL Ext. - EXTERNAL



University Nominee
(Dr.Ch.Suresh)



Subject Expert-1
(Dr.B.Sateesh Kumar)



Subject Expert-2
(Dr.K.V.Kadambari)



Industry Expert
(Mr.Rajasekhar Raavi)



Member, GIET (A)
(Mrs.R.Tamilkodi)



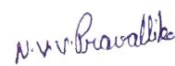
Member, GIET (A)
(Mr.L.V.Kiran)



Member, GIET (A)
(Mr.K.Praveen Kumar)



Member, GIET (A)
(Mrs.N.Durga Devi)



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I Year

II Semester

S. No.	Course Code	Course Title	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P		Int.	Ext.	Total
1.	20300201	OOPS Through Java	3	1	-	4	30	70	100
2.	20300202	Operating Systems	4	-	-	4	30	70	100
3.	20300203	Software Engineering	4	-	-	4	30	70	100
4.	20300204	Design & Analysis of Algorithms	3	1	-	4	30	70	100
5.	20300205	Computer Networks	4	-	-	4	30	70	100
6.	20300211	OOPS Through Java Lab	-	-	4	2	30	70	100
7.	20300212	Operating Systems and Unix Lab	-	-	3	1.5	30	70	100
8.	20300213	Software Engineering Lab	-	-	3	1.5	30	70	100
		Total				25	240	560	800

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III Semester

S. No.	Course Code	Course Title	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P		Int.	Ext.	Total
1.	20300301	Full Stack Web Development	3	1	-	4	30	70	100
2.	20300302	Data Science	3	1	-	4	30	70	100
3.	20300303	Internet of Things	3	1	-	4	30	70	100
4.	20300364(A/B/C/D)	Elective -1	4	-	-	4	30	70	100
5.	20309305	Professional Ethics	4	-	-	4	30	70	100
6.	20300311	Full Stack Web Development Lab	-	-	4	2	30	70	100
7.	20300312	Data Science with R Programming Lab	-	-	3	1.5	30	70	100
8.	20300313	Internet of Things Lab	-	-	3	1.5	30	70	100
9.	20300321	Mini Project #				2	50	-	50
Total						27	290	560	850

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This can be done within the Institute /Internship in Industry during semester break and evaluated at the end of 3rd Sem.

LIST OF ELECTIVES

Department Elective 1:

- A. Cyber Security and Forensics (20300364A)
- B. Software Testing and Quality Management (20300364B)
- C. Design Patterns (20300364C)
- D. Simulation Modelling (20300364D)



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IV Semester

S. No.	Course Code	Course Title	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P		Int.	Ext.	Total
1.	20300461(A/B/C/D)	Elective -2	4	0	-	4	30	70	100
2.	20300462 (A/B/C/D)	Elective -3	4	0	-	4	30	70	100
3.	20300431	Seminar	-	-	-	2	50	-	50
4.	20300441	Project Work/Dissertation	-	-	-	10	-	100	100
Total						20	110	240	350

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LIST OF ELECTIVES

Department Elective 2:

- A. Digital Image Processing (20300461A)
- B. Machine Learning (20300461B)
- C. Big Data Analytics (20300461C)
- D. MOOCS - 1 (NPTEL/SWAYAM) (20300461D) *

Department Elective 3:

- A. Software Project and Process Management (20300462A)
- B. Multimedia Applications and Development (20300462B)
- C. Cloud Computing (20300462C)
- D. MOOCS - 2 (NPTEL/SWAYAM) (20300462D) *

***Students going for Industrial Project/Thesis will complete these courses through MOOCs**



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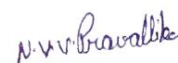
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