GMR Institute of Technology
An Autonomous Institute Affiliated to JNTU-GV | GMRIT Training Tomorrow's Engineers Today

1.1.3(B) Minutes of the Boards of Studies/ Academic Council meetings with approval for the courses mentioned in 1.1.3 (A)

Department of Information Technology

INDEX

Department of Information Technology

Minimum Credits to be earned: 160 (for Regular Students)
127 (for Lateral Entry Students)

		Fifth Semester					
1	21CS404	Design and Analysis of Algorithms	1,2,3,4,PSO1	3	-	2	4
2	21IT502	Artificial Intelligence	1, 2,3,4, PSO1, PSO2	3	0	-	3
3	21IT503	Cloud Computing	1,2,3,4 5, 6, 7, 8, PSO2	3	0	-	3
4	21IT504	Software Engineering Principles	1,2,3,4,5, PSO2	3	-	2	4
5		Elective I(Professional Elective)		3	0	-	3
6		Elective II (Open Elective I)		3	0	-	3
7	21IT507	Cloud Computing Laboratory	1, 2,3, 4, 5, 9, PSO1	-	-	3	1.5
8	21TPX01	Term Paper	1, 4, 10, 12	-	-	3	1.5
9	21ESX02	Employability Skills II	1,2,5,8,10,12	-	-	2	-
10	21HSX12	CC & EC Activities II	6, 7, 9, 10	-	-	1	-
11	21SIX01	Summer Internship #I	1, 2, ,8, 10, 12				1
			Total	**19**	**0**	**12**	**24**

		Sixth Semester					
1	21HSX10	Engineering Economics and Project Management	1,10,11	3	0	-	3
2	21IT602	Automata and Compiler Design	1,2,3,4, 12	3	0	-	3
3	21IT603	Machine Learning	1, 2,3,4, PSO1, PSO2	3	0	-	3
4		Elective III (Professional Elective)		3	-	2	4
5		Elective IV (Open Elective II)		3	0	-	3
6	21IT606	Machine Learning Lab using Python	1,2,3,4,5,9 PSO1, PSO2,	-	-	3	1.5
7	21MPX01	Mini Project	All	-	-	3	1.5
8	21ESX02	Employability Skills II	1,2,5,8,10,12	-	-	2	2
9	21HSX12	CC & EC Activities II	6, 7, 9, 10	-	-	1	1
10	21ATX01	Environmental Studies	1, 6, 7, 12	-	-	-	-
11	21ATX02	Professional Ethics and Human Values	-----------------	-	-	-	-
12		Audit Course	----	-	-	-	-
			Total	**16**	**0**	**8**	**22**

		Seventh Semester					
1		Elective V(Professional Elective)		3	0	-	3
2		Elective VI (Professional Elective)		3	0	-	3
3		Elective VII (Open Elective III)		3	0	-	3
4	21PWX01	Project	All	-	-	16	8
5	21SIX02	Summer Internship #II	1, 2, 5, 6, 10, 12	-	-	-	1
			Total	**9**	**0**	**16**	**18**

		Eighth Semester					
1		Elective VIII (Professional Elective)		-	-	-	3
2		Elective IX (Open Elective IV)		-	-	-	3
3	21FIX01	Full Semester Internship (FSI)	1, 2, 5, 8, 9,10, 11,PSO1,PSO2	-	-	-	8
			Total	**-**	**-**	**-**	**14**

List of Electives

Language Electives				
No.	Course	Course	POs	Contact

Commented [r1]: Approved in the 18th Academic Council Meeting

Commented [r2]: Approved in the 18th Academic Council Meeting

Commented [r3]: Approved in the 18th Academic Council Meeting

Commented [r4]: Approved in the 18th Academic Council Meeting

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	Code			Hours			
				L	T	P	C
1	21HSX03	Advanced Communicative English		3	0	-	3
2	21HSX04	Communicative German		3	0	-	3
3	21HSX05	Communicative French		3	0	-	3
4	21HSX06	Communicative Japanese	10,12	3	0	-	3
5	21HSX07	Communicative Spanish		3	0	-	3
6	21HSX08	Communicative Korean		3	0	-	3
7	21HSX09	Communicative Hindi		3	0	-	3
Elective I							
Career Path I, II, III and Other Core Electives							
1	21CSC11	Exploratory Data Analytics (AI&ML)	1,2,4,PSO2	3	0	-	3
2	21CSC21	Web Programming Languages (Full Stack Developer)	1, 2,3,5, PSO1,PSO2	3	0	-	3
3	21ITC31	Fundamentals of Security (Cyber Security)	1, 2, 5,PSO1,PSO2	3	0	-	3
4	21IT004	Computer Graphics and Multimedia	2, 3, 5	3	0	-	3
5	21IT005	Information Theory and Coding	1,2,3,6,8	3	0	-	3
6	21IT006	Data Warehousing and Data Mining	2, 3, 4, 5, PSO1	3	0	-	3
7		MOOCs		-	-	-	3
Elective III							
Career Path I, II, III and Other Core Electives							
1	21CSC12	Deep Learning (AI&ML)	1,2,4, PSO1	3	-	2	4
2	21CSC22	Web Application Developments Framework (Full Stack Developer)	1, 3, 4	3	-	2	4
3	21ITC32	Cybernet Security (Cyber Security)	1,3,4,12,PSO1,PSO2	3	-	2	4
4	21IT007	The Internet of Things	1, 2, 3, 5, 10	3	-	2	4
5	21CS008	Cryptography and Network Security	3, 6, 8	3		2	4
6	21IT008	User Interface/ User Experience	1, 2, 3, 5, 10	3	-	2	4
Elective V							
Career Path I, II, III and Other Core Electives							
1	21CSC13	Natural Language Processing (AI & ML)	1,2,3,4,12,PSO2	3	0	-	3
2	21CSC23	Web Application Databases (Full Stack Developer)	1,3,5,PSO2	3	0	-	3
3	21ITC33	Cloud Security (Cyber Security)	1,2,4,5,	3	0	-	3
4	21EC602	Digital Signal Processing	1,2, PSO2	3	0	-	3
5	21IT010	Information Retrieval Systems	3,6,8	3	0	-	3
6	21CS005	Mobile Computing	1,3,8	3	0	-	3
7		MOOCs		-	-	-	3
Elective VI							
1	21IT017	Social Network Analysis	2,4,5,12	3	0	-	3
2	21IT011	Real Time Operating Systems	2,3,12	3	0	-	3
3	21IT012	Digital Image Processing	3,5,6	3	0	-	3
4	21IT014	Distributed Systems	2, 7, 12	3	0	-	3
5	21CS012	Wireless Ad hoc Networks	1,2,3,6,7,10	3	0	-	3
6	21CS015	Software Project Management	1,2,3,11,12, PSO2	3	0	-	3
7		MOOCs		-	-	-	3
Elective VIII: Professional Elective							
1	21CS014	Green Computing	2,3,6,7	-	-	-	3
1	21IT013	Design Patterns	2,3,5	-	-	-	3
3	21IT016	Professional Ethics	1, 6,8,12	-	-	-	3
4		MOOCs	-	-	-	-	3
Open Elective I, II, III, and IV (Elective II, IV, VII, and IX)							
1	21CE001	Disaster Management	2,7	3	-	-	3
2	21EE001	Electrical Installation, Safety and Auditing	2,3,6,8	3	-	-	3
3	21ME001	Fundamentals of Optimization Techniques	1,2,5,3	3	-	-	3
4	21EC001	Sensors for Engineering Applications	1,2	3	-	-	3
5	21CS001	Fundamentals of Artificial Intelligence	1,2,3	3	-	-	3
6	21CH001	Energy Conversion and Storage Devices	1,3,6,7	3	-	-	3

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Commented [r9]: Approved in the 18th Academic Council Meeting

Commented [r10]: Approved in the 18th Academic Council Meeting

7	21IT001	Fundamentals of Multimedia	3,5,7	3	-	-	3
8	21BS001	Nano Materials and Technology	1,2	3	-	-	3
9	21DS001	Fundamentals of Data Science	1,2	3	-	-	3
10	21CE002	Air Pollution and Environmental Impact Assessment	6,7,12	3	-	-	3
11	21EE002	Renewable Energy Sources	2,7	3	-	-	3
12	21ME002	Principles of Entrepreneurship	1,5,8,11	3	-	-	3
13	21EC002	Electronics for Agriculture	1,2	3	-	-	3
14	21CS002	Fundamentals of Machine Learning	2,5	3	-	-	3
15	21CH002	Industrial Safety and Hazard Management	1,2,3,6,8	3	-	-	3
16	21IT002	Fundamentals of Cloud Computing	2,6,7,8,12	3	-	-	3
17	21BS002	Advanced Numerical Techniques	1,2	3	-	-	3
18	21BS003	Functional Materials and Applications	1,7	3	-	-	3
19	21CE003	Solid Waste Management	3,7,12	3	-	-	3
20	21EE003	Fundamentals of Electrical Vehicle Technology	2,3,12	3	-	-	3
21	21ME003	Industrial Engineering and Management	1,5,8	3	-	-	3
22	21CS003	Interfacing and Programming with Arduino	1,4	3	-	-	3
23	21DS003	Data Science for Engineering Applications	2,3,4	3	-	-	3
24	21CH003	Industrial Ecology for Sustainable Development	2,6,7	3	-	-	3
25	21IT003	Fundamentals of Mobile Computing	1,7	3	-	-	3
26	21BS004	Advanced Materials for Renewable Energy	1,2	3	-	-	3
27	21BS005	Applied Linear Algebra for Engineers	1,2	3	-	-	3
28	21CE019	Green Buildings	1,7,12	3	-	-	3
29	21EE017	Sustainable Energy	2,3,12	3	-	-	3
30	21ME019	Total Quality Management	1,2,5,8	3	-	-	3
31	21EC011	Communication Technologies	1,2	3	-	-	3
32	21CS020	Applications of Artificial Intelligence	2,3,6,7	3	-	-	3
33	21CH016	Green Technologies	2,6,7	3	-	-	3
34	21IT015	Human Computer Interaction	1,7	3	-	-	3
35	21BS006	Handling of Industrial waste and waste water	3,7	3	-	-	3
36	21OE001	Robotics and Automation	5,6,7	3	-	-	3
37	21OE002	Introduction to IoT	1,2	3	-	-	3
38	21OE003	Fundamentals of Image Processing	1,2	3	-	-	3
39	21OE004	Fundamentals of Data Acquisition Systems	1,2	3	-	-	3
40	21OE005	Airport Operations Management	2,4,11,12	3	-	-	3
41	21OE006	Fundamentals of Embedded Systems	1,2,10	3	-	-	3
42	21OE007	Remote Sensing and GIS	1,2,5,7,10	3	-	-	3
43	21OE008	Big Data Analytics	1,7	3	-	-	3
44	21OE009	Fundamentals of Cyber Security	3,6,8	3	-	-	3
45	21OE010	Smart Cities	1,7,12	3	-	-	3
46	21OE011	Nano Materials and Thin Film Technology	1,2	3	-	-	3
47	21CSMC1	Cloud Computing	1,2,3	3	-	-	3
48	21CSMC2	Ethical Hacking	1,2,3	3	-	-	3
49	21CSMC3	Fundamentals of Web Development	1,2,3	3	-	-	3
50	21OE012	Business Intelligence & Analytics	1,2	3	-	-	3
51	21OE013	Introduction to Industry 4.0 and Industrial IoT	2,3	3	-	-	3
52	21OE014	Natural Language Processing	2,3	3	-	-	3
53	21OE015	Affective Computing	1,2,3,4	3	-	-	3
54	21OE016	Principles of Data Science	1,2	3	-	-	3
Audit Course							
1	21AT001	Communication Etiquette in Workplaces					
2	21AT002	Contemporary India: Economy, Policy and Society					
3	21AT003	Design The Thinking					
4	21AT004	Ethics and Integrity					
5	21AT005	Indian Heritage and Culture					
6	21AT006	Intellectual Property Rights					
7	21AT007	Introduction to Journalism					
8	21AT008	Mass Media Communication					
9	21AT009	Science, Technology and Development					

10	21AT010	Social Responsibility					
11	21AT011	The Art of Photography and Film Making					
12	21AT012	Gender Equality for Sustainability					
13	21AT013	Women in Leadership					
14	21AT014	Introduction to Research Methodology					
15	21AT015	Climatic Change and Circular Economy					
B. Tech. (Honors)							
Domain – I: Modern Computing							
01	21ITH11	Advanced Computer Architecture	2, 3	4	-	-	4
02	21ITH12	Micro Processors and Micro Controllers	2, 3	4	-	-	4
03	21ITH13	Embedded Systems	1, 2, 7,12	4	-	-	4
04	21ITH14	High Performance Computing	2, 3	4	-	-	4
Domain – II: Data Engineering							
01	21CSH11	Advanced Data Structures	2, 3, 4	4	-	-	4
02	21CSH12	Advanced Databases	2, 3, 4	4	-	-	4
03	21CSH13	Programming, Data Structures and Algorithms Using Python	2, 3, 4, 5	4	-	-	4
04	21CSH14	Bio-Informatics	1, 2, 5	4	-	-	4
Domain – III: Modern Software Engineering							
01	21CSH21	DevOps	1, 3, 5, 8, 10	4	-	-	4
02	21CSH22	Design Patterns	2, 3, 5	4	-	-	4
03	21CSH23	Advanced Software Engineering	1, 2, 3, 4, PSO1	4	-	-	4
04	21CSH24	Robotic Process Automation	3, 5, 8, PSO2	4	-	-	4
Domain – IV: Security							
01	21CSH31	Fundamentals of Systems Security	1, 2	4	-	-	4
02	21CSH32	Python Programming for Security	1, 3, 4	4	-	-	4
03	21CSH33	Management of Information Security	3, 6, 7	4	-	-	4
04	21CSH34	Computer Forensics	2, 3, 5	4	-	-	4
B. Tech. (Minors)							
Energy Science & Technology							
1	21CHM11	Foundation of Energy Science and Technology	1, 2, 3 , 5, 7, 12	4	-	-	4
2	21CHM12	Energy Generation from Waste	1, 2, 3, 4, 5	4	-	-	4
3	21CHM13	Energy Storage Systems	1, 2, 3, 6, 7	4	-	-	4
4	21CHM14	Hydrogen Energy and Fuel Cells	1, 2, 3, 7	4	-	-	4
Nano Science & Technology							
5	21CHM21	Introduction and Characterization of Nano Materials	1, 2, 3, 7	4	-	-	4
6	21CHM22	Carbon Nanostructures and Applications	1, 3, 4, 5	4	-	-	4
7	21CHM23	Energy, Environment & Biomedical Nanotechnology	1, 2, 3, 7	4	-	-	4
8	21CHM24	Industrial Applications of Nano Technology	2, 3, 5, 7	4	-	-	4
Environmental Engineering							
9	21CEM11	Watershed Management	6,7	4	-	-	4
10	21CEM12	Industrial Pollution Control and Engineering	3,6,7	4	-	-	4
11	21CEM13	Solid and Hazardous Waste Management	1,3,6,7	4	-	-	4
12	21CEM14	Ecology and Environmental Assessment	1,3,6,7	4	-	-	4
Artificial Intelligence & Machine Learning							
13	21CSM11	Fundamentals of AI & Machine Learning	1,12	4	-	-	4
14	21CSM12	Feature Engineering for Machine Learning	1,2,3	4	-	-	4
15	21CSM13	Exploratory Data Analytics	1,4	4	-	-	4
16	21CSM14	Deep Learning	1,2, 4	4	-	-	4
Cyber Security							
17	21CSM21	Fundamentals of Security	1,2	4	-	-	4
18	21CSM22	Management of Information Security	3,6,7	4	-	-	4
19	21CSM23	Cyber Security	1,3,4	4	-	-	4
20	21CSM24	Cloud Security	2,3	4	-	-	4
Data Science & Analytics							

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21	21CSM31	Data Cleaning	2,3,4	4	-	-	4
22	21CSM32	Data Engineering	1,2,3,4	4	-	-	4
23	21CSM33	Text Analytics	1,2,4	4	-	-	4
24	21CSM34	Social Network and Semantic Analysis	2, 4	4	-	-	4
Computer Systems Programming							
25	21CSM41	Programming Fundamentals	1,2,3	4	-	-	4
26	21CSM42	Data Structures & Algorithms	1,2,3,4	4	-	-	4
27	21CSM43	Fundamentals of Databases	1,4	4	-	-	4
28	21CSM44	Fundamentals of Computer Networks & Operating Systems	1,2,3	4	-	-	4
Digital IC Design							
29	21ECM11	Fundamentals of VLSI Design	1, 2, 3	4	-	-	4
30	21ECM12	Digital Design using HDL	1, 2, 3	4	-	-	4
31	21ECM13	FPGA Technology	1, 2	4	-	-	4
32	21ECM14	Analog and Mixed Signal Design	1, 2	4	-	-	4
Industrial Automation							
33	23ECM23	Microcontrollers and Interfacing	1, 2, 3	4	-	-	4
34	23ECM22	Sensors and Data Acquisition System	1, 2	4	-	-	4
35	23ECM23	Fundamentals of Labview	1, 2	4	-	-	4
36	23ECM24	Medical Robotics	1, 2, 3	4	-	-	4
Communications and Networking							
37	23ECM31	Principles of Communications	1, 2	4	-	-	4
38	23ECM32	Coding Theory and Practice	1, 2	4	-	-	4
39	23ECM33	Ad-hoc and Wireless Sensor Networks	1, 2, 3	4	-	-	4
40	23ECM34	Fundamentals of Multimedia Networking	1, 2, 3	4	-	-	4
Avionics							
41	23ECM41	Principles of Aerodynamics	1, 2	4	-	-	4
42	23ECM42	Aircraft Electrical Systems	1, 2	4	-	-	4
43	23ECM43	Aircraft Instrument Systems	1, 2	4	-	-	4
44	23ECM44	Aircraft Communication and Navigational Systems	1, 2	4	-	-	4
Geographic Information System							
45	23ECM51	Sensors and Sensing Technology	1, 2	4	-	-	4
46	23ECM52	Geographic Information Systems	1, 2	4	-	-	4
47	23ECM53	Digital Image Processing	1, 2	4	-	-	4
48	23ECM54	Lidar Systems	1, 2	4	-	-	4
Electric Vehicles Technology							
49	23EEM11	Introduction to Electric Vehicles Technologies	2, 3	4	-	-	4
50	23EEM12	Electrical Drives and Controllers for ElectricVehicles	2, 3	4	-	-	4
51	23EEM13	Charging Technology in Electric Vehicles	2, 3	4	-	-	4
52	23EEM14	Computer Vision in Electric Vehicles	2, 3	4	-	-	4
Smart City Management							
53	23EEM23	Fundamentals of Smart City	2, 3	4	-	-	4
54	23EEM22	Smart City Infrastructure	2, 3, 5, 6, 7, 11	4	-	-	4
55	23EEM23	Computational Methods for Smart City Management	3, 5	4	-	-	4
56	23EEM24	Communication Technologies and Mobility for Smart City	2, 3	4	-	-	4
Industrial Applications and Control							
57	23EEM31	Modelling and Simulations of Industrial Applications	2, 3	4	-	-	4
58	23EEM32	Industrial Sensors and Actuators	2, 3	4	-	-	4
59	23EEM33	Programmable Logic Controllers	2, 3	4	-	-	4

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60	23EEM34	Control Design for Industrial Applications	2, 3	4	-	-	4
Robotics and Automation							
61	23MEM11	Introduction to Robotics	1,2,3	4	-	-	4
62	23MEM12	Drives and Sensors	1,2,3,4	4	-	-	4
63	23MEM13	Control Systems for Robotics	1,2,3,4	4	-	-	4
64	23MEM14	Machine Learning for Robotics	2,5	4	-	-	4
Industrial Systems Engineering							
65	23MEM23	Industrial Management	1,10,11,12	4	-	-	4
66	23MEM22	Fundamentals of Operations Research	1,2,3,5	4	-	-	4
67	23MEM23	Enterprise Resource Planning	1,2,3,5,11,12	4	-	-	4
68	23MEM24	Production Planning and Control	1,2,3,5,11,12	4	-	-	4

AR23 REGULATION

Department of Information Technology
Minimum Credits to be earned: 160 (for Regular Students)
127 (for Lateral Entry Students)

Third Semester

1	23IT301	Python Programming and Applications	1,2,3,4,5,12, PSO1, PSO2	3	0	-	3
2	23CS304	Digital Logic Design	1,2,3,5	3	-	2	4
3	23CS305	Discrete Mathematical Structures	1,2,3,12, PSO1	3	0	-	3
4	23IT304	Database Management Systems	1, 2, 3, 4,12, PSO2	3	0	-	3
5	23IT305	Data Communication Systems	1, 2, 3,4,7, 12, PSO1	3	0	-	3
6	23IT306	Object Oriented Programming through Java	1,2,3,4,5, 12, PSO1, PSO2	3	-	2	4
7	23IT307	Python Programming and Applications Laboratory	1,2,3,4,5,9,12, PSO1, PSO2	-	-	3	1.5
8	23IT308	Database Management Systems Laboratory	1, 2, 3, 4, 5, 9, PSO2	-	-	3	1.5
9	23ESX01	Employability Skills I	1,2,5,8,10,12	-	-	2	-
			Total	**19**	**0**	**12**	**23**

Fourth Semester

1	23MA405	Probability and Statistics	1,2	3	0	-	3
2	23CS403	Computer Organization and Architecture	1,2,12, PSO1	3	0	-	3
3	23IT403	Operating Systems	1,2,3,4, 7,12	3	0	-	3
4	23CS303	Design and Analysis of Algorithms	1,2,3,PSO1	3	-	-	3
5	23IT405	Web Technologies	1,2, 3, 5, PSO1, PSO2	3	-	2	4
6	23CS307	Design and Analysis of Algorithms Lab	2,3,4,12,PSO1	-	-	3	1.5
7	23IT407	Operating Systems Laboratory	1,2, 3, 5, 9	-	-	3	1.5
8	23ESXO1	Employability Skills I	1,2,5,8,10,12	-	-	2	2
			Total	**15**	**0**	**10**	**21**

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GMR Institute of Technology
An Autonomous Institute Affiliated to JNTUK, Kakinada

GMRIT
Training Tomorrow's Engineers Today

MINUTES OF THE 18th ACADEMIC COUNCIL MEETING

Media	: Zoom (Online Meeting)
Date	: 13.07.2022 (Wednesday)
Time	: 03:00 PM – 05:00 PM

MEMBERS PRESENT

Dr. C. L. V. R. S. V. Prasad	-	Chairman (Principal)
Dr. KVSG Murali Krishna	-	Member
Dr. B. Bala Krishna	-	Member
Dr. R.Rajeswara Rao	-	Member
Dr. A.Venugopal	-	Member
Dr. K. V. L. Subramaniam	-	Member
Dr. P. Mallikarjuna Rao	-	Member
Dr. P. K. Jain	-	Member
Chair Person (BoS : Civil Engg.)	-	Member
Chair Person (BoS : EEE)	-	Member
Chair Person (BoS : Mech Engg.)	-	Member
Chair Person (BoS : ECE)	-	Member
Chair Person (BoS : CSE)	-	Member
Chair Person (BoS : Chem Engg.)	-	Member
Chair Person (BoS : IT)	-	Member
Chair Person (BoS : BS&H)	-	Member
Dr.S.N.Dash(CDC-Head)	-	Member
Dr.G.Sasi Kumar(Asso.Dean-Student Affairs)	-	Member
Dr.P.S.Venkata Narayana(Asso.Dean-R&D)	-	Member
Dr.T.Prabhakar (Controller of Examinations)	-	Member
Dr. L.Govinda Rao(IQAC Coordinator)	-	Member
Dr. M.V.Nageswara Rao(Asso.Dean-Academics)	-	Member Secretary

GRANT OF LEAVE OF ABSENCE

Mr. V. Paradesi Naidu	-	Member

Chairman welcomed all the members of the academic council and requested for the grant leave of absence for the above referred members. **(Item #1).**

Subsequently, the Chairman presented the action taken report for the 17th academic council meeting and received the confirmation for the minutes of 17th academic council meeting held on 11th Sep 2021 from all the esteemed members. **(Item #2&3).**

Chairman presented the details of the overall Operations and performance of the Institution (Academic-Operations, Ranking, Achievements, Placements and Research) **(Item #4).**

Academic council members appreciated the efforts and initiatives taken up by the institute for the overall development and the ranking achieved. Congratulated the students who achieved credential in curricular and co-curricular activities.

ITEM No.: 5

Ratification of Semester end result for regular and supplementary examination for the academic year 2020-21(II, IV, VI semesters) and 2021-22 (I, III, VI, VII, VII, VIII semesters) held during September 2021 to July 2022 for Students in B. Tech. Programs.

Chairman presented the results declared for the regular and supplementary examinations pertaining to semesters mentioned above for the students admitted during the different academic years under Academic Regulation AR16, AR19, AR20 and AR 21 and requested for the ratification of the results which were declared by the College academic committee in the presence of the JNTUK representative.

The members after the detailed review, ratified the results of all the regular and supply examinations declared by the college academic committee as per the **Annexure I.**

ITEM No.: 6

Ratification of results of 2nd phase semester end exams for all the COVID-19 infected students during 2021-22.

Chairman presented the list of students infected with COVID-19 and could not appear for the 7th semester examinations. These students were permitted to appear in the 2nd phase as per the university directions considering it as a first attempt.

The members after the detailed review, ratified the Class and CGPA declared by the college academic committee as per the **Annexure II.**

ITEM No.: 7

Ratification of the PC eligibility list of the students admitted during the Academic Year 2018-19 and earlier batches who have successfully acquired the graduation requirements for the award of B. Tech. Degree as per the respective academic regulations at the time of admission.
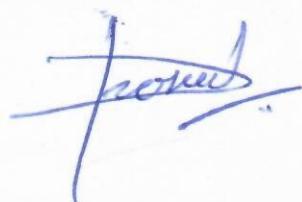
Chairman presented the (semester-wise & branch-wise) results of the 2018 admitted batch for all the semesters' i.e from 1st to 8th semesters under Academic Regulation AR16 and who have acquired the graduation requirements and eligible for the issue of Provisional certificate. Further, details of the students who have acquired graduation requirements and eligible for the issue of PCs pertaining to the batches admitted earlier to 2018 are presented.

The members reviewed the results (1st semester to 8th semester) of 2018 admitted batch students and approved the PC eligibility list of the student who will be getting graduated by July 2022 as per the academic regulations AR16. Apart from this, the PC eligible students from the earlier admitted students who have acquired graduation requirements were also approved as per the **Annexure III**.

ITEM No.: 8

Ratification of the AR21 regulations for UG and PG programs that are approved by circulation wide the circulars dated 15-11-2021, 30-12-2021 & 30-03-2022 (In compliance with the JNTUK common guidelines)

Chairman presented the Academic Regulations 2021 (AR21) and Curriculum recommended by the respective BoS and which are in line with JNTUK common guidelines majorly in the context of incorporating the changes relate to the marks division between internal and External marks (30+70), Absolute grading in the place of Hybrid grading and Award of Class of degree (Division/Class) for UG and PG programs.

The members after deliberation ratified the Academic Regulations 2021 (AR21), Curriculum for UG and PG programs as per **Annexure IV &V**.

ITEM NO.:9

Approval of course structure, 3rd & 4th semesters syllabus for the new programs B.Tech CSE(AIML) and B.Tech CSE(AIDS) as per Academic Regulations 2021.

Chairman presented the recommendations of the Board of Studies CSE(AIDS) and CSE (AIML)) with regard to the course structure and detailed Syllabi for 3rd and 4th semesters as per AR21 for the B. Tech. (Regular), B. Tech. (Honors) and B. Tech (Minor) Programs for the ratification of Academic Council

Members after deliberation ratified the syllabi for the 3rd and 4th semesters as per the **Annexure VI & VII**.

ITEM NO.:10

Ratification of the syllabus for the 7th and 8th semesters as per AR19 and AR20 academic regulations

Chairman presented the recommendations of all the seven Board of Studies with regard to the detailed Syllabi for 7th and 8th semesters under the Academic Regulation AR 19 and AR 20 for the B. Tech. (Regular), B. Tech. (Honors) and B. Tech (Minor) Programs for the ratification of Academic Council

Members after deliberation ratified the syllabi for the 7th and 8th semesters as per the **Annexure VIII to XIV**

ITEM NO.:11

Ratification for readmitted students under transitory Regulations

As per the transitory regulations, with regard to the students re-admitted under, AR19/AR20 moving from AR16/AR19, Board of Studies of the respective departments discussed the issues case to case and recommended the substitute courses balancing the credit requirements. The details of the students are presented by the chairman before the council for formal ratification

Members ratified the recommendations of the respective BoS as per the **Annexure XV**
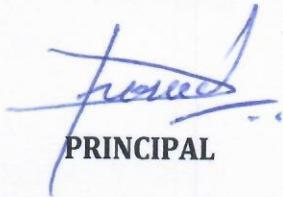
PRINCIPAL

Encl. (a) Annexure A (b) Annexure B (c) Annexure C (d) Annexure D

Copy to:
- All Members of the Academic Council
- Autonomous Coordinator (Institute Level)
- Assoc.Dean(Academics)
- Controller of Examinations (CoE)
- File

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Annexure IV:
http://www.gmrit.org/Autonomy_Regulations_UGPrograms_2021.pdf

Annexure V:
http://www.gmrit.org/Autonomy_Regulations_PGPrograms_2021.pdf

Annexure VI:
http://www.gmrit.org/resources/CSE-AI&DS_Course_Structure.pdf

Annexure VII:
http://www.gmrit.org/resources/CSE-AI&ML_Course_structure.pdf

Annexure VIII: CIVIL Engineering
http://www.gmrit.org/resources/B.Tech_Civil_Syllabus_AR19.pdf
http://www.gmrit.org/resources/B.Tech_Civil_Syllabus_AR20.pdf

Annexure IX: CHEMIAL Engineering
http://www.gmrit.org/resources/B.Tech_Chem_Syllabus_AR20.pdf
http://www.gmrit.org/resources/B.Tech_Chem_Syllabus_AR19.pdf

Annexure X: Computer Science Engineering
http://www.gmrit.org/resources/B.Tech_CSE_Syllabus_AR20.pdf
http://www.gmrit.org/resources/B.Tech_CSE_Syllabus_AR19.pdf

Annexure XI: Information Technology
http://www.gmrit.org/resources/B.Tech_IT_Syllabus_AR20.pdf
http://www.gmrit.org/resources/B.Tech_IT_Syllabus_AR19.pdf

Annexure XII: Electronics and Communication Engineering
http://www.gmrit.org/resources/B.Tech_ECE_Syllabus_AR20.pdf
http://www.gmrit.org/resources/B.Tech_ECE_Syllabus_AR19.pdf

Annexure XIII: Electrical and Electronics Engineering
http://www.gmrit.org/resources/B.Tech_EEE_Syllabus_AR20.pdf
http://www.gmrit.org/resources/B.Tech_EEE_Syllabus_AR19.pdf

Annexure XIV: Electrical and Electronics Engineering
http://www.gmrit.org/resources/B.Tech_Mech_Syllabus_AR20.pdf
http://www.gmrit.org/resources/B.Tech_Mech_Syllabus_AR19.pdf

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GMRIT
Training Tomorrow's
Engineers Today

MINUTES OF THE 20ᵗʰ ACADEMIC COUNCIL MEETING

Media	: Zoom (Online Meeting)
Date	: 15.06.2024 (Saturday)
Time	: 03:00 PM – 05:00 PM

MEMBERS PRESENT

Dr. C. L. V. R. S. V. Prasad	-	Chairman (Principal)
Dr. D. Rajya Lakshmi	-	Member
Mr.B.Chandra Bhushana Rao	-	Member
Dr. G. Jayasuma	-	Member
Dr. A. Venu Gopal	-	Member
Dr. P. Mallikarjuna Rao	-	Member
Dr. P. K. Jain	-	Member
Chair Person (BoS : Civil Engg.)	-	Member
Chair Person (BoS : EEE)	-	Member
Chair Person (BoS : Chem &Mech Engg.)	-	Member
Chair Person (BoS : ECE)	-	Member
Chair Person (BoS : CSE)	-	Member
Chair Person (BoS : IT)	-	Member
Chair Person (BoS : BS&H)	-	Member
Chair Person (BoS : AIML,AIDS)	-	Member
Dr.S.N.Dash(CDC-Head)	-	Member
Dr.V.Rambabu (Asso.Dean-Student Affairs)	-	Member
Dr. K.Ravindranadh (Asso.Dean-R&D)	-	Member
Dr.T.Prabhakar (Controller of Examinations)	-	Member
Dr.P.N.L.Pavani (Head -IQAC)	-	Member
Dr. M.V.Nageswara Rao(Asso.Dean-Academics)	-	Member Secretary

GRANT OF LEAVE OF ABSENCE

Dr. K. V. L. Subramaniam	-	Member
Mr. V. Paradesi Naidu	-	Member

Chairman welcomed all the members of the academic council and requested for the grant leave of absence for the above referred members. **(Item #1)**.

Member Secretary presented the action taken report for the 19ᵗʰ academic council meeting and received the confirmation for the minutes of 19ᵗʰ academic council meeting held on 06ᵗʰ June 2023 from all the esteemed members.

Also presented the action taken report for the approvals taken by circulation on 20.11.2023 and received the confirmation from all the esteemed members. **(Item #2 &3).**

Member Secretary presented the details of the overall Operations and performance of the Institution (Academic-Operations, Ranking, Achievements, Placements and Research) **(Item #4).**

Academic council members appreciated the efforts and initiatives taken up by the institute for the overall development and the ranking achieved. Congratulated the students who achieved credential in curricular and co-curricular activities.

ITEM No.: 5

Ratification of Semester end result for regular and supplementary examination for the academic year 2023-24 (II, IV, VI, VIII semesters) and 2023-24 (I, III, V, VII semesters) held during June 2023 to June 2024 for Students in B. Tech. and M.Tech Programs.

Member Secretary presented the results declared for the regular and supplementary examinations pertaining to semesters mentioned above for the students admitted during the different academic years under Academic Regulation AR16, AR19, AR20, AR21 and AR 23 and requested for the ratification of the results which were declared by the College academic committee in the presence of the JNTUGV representative.

* The members, after the detailed review, ratified the results of all the regular and supply examinations declared by the college academic committee as per the **Annexure I.**

ITEM No.: 6

Ratification of the PC eligibility list of the UG students admitted during the Academic Year 2020-21 & earlier batches who have successfully acquired the graduation requirements for the award of B. Tech. Degree with Honours , B.Tech. Degree with Minors in Computer Science and Engineering , and B.Tech. Degree as per the respective academic regulations at the time of admission.

Ratification of the PC eligibility list of the PG students admitted during the Academic Year 2021-2022 who have successfully acquired the graduation requirements for the award of M.Tech. Degree as per the respective academic regulations at the time of admission.

Member Secretary presented the (semester-wise & branch-wise) UG results of the 2020 admitted batch for all the semesters i.e from 1st to 8th semesters under Academic Regulation AR20 and who have acquired the graduation requirements and eligible for the issue of Provisional certificate.

Further, details of the students who have acquired graduation requirements and eligible for the issue of PCs pertaining to the batches admitted earlier to 2020 are presented.

The members reviewed the results (1st semester to 8th semester) of 2020 admitted batch students and approved the PC eligibility list of the student who will be graduating by June 2024 as per the academic regulations AR20. Apart from this, the PC eligible students from the earlier admitted students who have acquired graduation requirements were also approved as per the **Annexure II.**

Member Secretary also presented the (semester-wise & Specialisation-wise) results PG students admitted in the academic year 2021-22 for all the semesters' i.e from 1st to 4th semesters and who have fulfilled the M.Tech requirements and eligible for the issue of Provisional certificate.

The members reviewed the results (1st semester to 4th semester) of 2021 admitted batch PG students and approved the PC eligibility list of the students who will be graduating by June 2024 as per the **Annexure II.**

ITEM NO.:7

Ratification of the syllabus for the 7th & 8th semesters of CSE-AIML & CSE-AIDS as per AR21 academic regulations

HOD-CSE presented the recommendations of the Board of Studies (meeting held on 16th March 2024) of CSE-(Artificial Intelligence and Machine Learning) and CSE-(Artificial Intelligence and Data Science) regarding the detailed Syllabi for 7th & 8th semesters for AR21 regulations B. Tech. (Regular), B. Tech. (Honors) and B. Tech (Minor) Programs requesting for the ratification from the members of Academic Council

Members after deliberation ratified the syllabi for the 7th and 8th semesters as per the **Annexure III.**

ITEM NO.:08

Approval of the AR-23 Academic Regulations for 3rd, 4th, 5th, 6th ,7th and 8th semesters.

The member secretary presented the detailed course structure and syllabus from III to VIII semesters of AR23 regulations. The syllabus and course structure of I and II semesters are in line with the common guidelines suggested by JNTUGV.

However, keeping in view the following points related the JNTUGV suggested course structure:

1. More academic load during 7th semester (21 credits)
2. Mandated FSI during 8th semester for all the students
3. No clear separation of credits for project work and FSI in 8th semester
4. Suggested FSI through online/virtual mode

All the respective BoS have recommended implementing the course structure of III to VIII semesters of AR21 which was Approved and ratified by AC during the meeting dated 13th July 2022 with the following changes to have credit balance.

- CC&EC activities which were available from III to VI semesters are removed as CC&EC activities were already pursued in the I and II semesters.
- One credit is reduced in the Open Elective of VIII semester
- Minor modifications in the syllabus in a few courses.

Members deliberated and ratified the course structure and syllabus for AR23 regulations as recommended by the respective BoS for all the eight UG programs. Details are attached in **Annexure-IV**
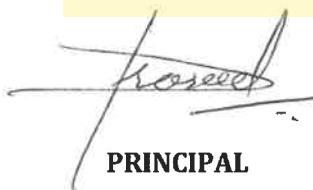
PRINCIPAL

Encl. Annexure I to IV

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- Assoc.Dean(Academics)
- Controller of Examinations (CoE)
- File

PC Eligibility for
B.Tech Degree with Minors in Computer Science and Engineering

S.No	Department	Registered	Eligible for B.Tech Degree with Minors in Computer Science and Engineering
1	Civil Engineering	13	9
2	Electrical and Electronics Engineering	10	10
3	Mechanical Engineering	9	9
4	Electronics and Communication Engineering	30	26
5	Chemical Engineering	3	2
	Total	65	56

PC Eligibility - PG Students 2021 Admitted Batch

S.No.	Admitted Batch	PC Eligible Students	Eligibility Academic Year
1	2021 Admitted Batch	08	2023-24

Annexure – III

Syllabus for 7th & 8th semesters of CSE-AIML & CSE-AIDS

https://gmrit.edu.in/PDFs/curriculum/B.Tech_AIDS_Syllabus_AR21.pdf

https://gmrit.edu.in/PDFs/curriculum/B.Tech_AIML_Syllabus_AR21.pdf

Annexure – III

Academic Regulations (AR-23) for 3rd, 4th, 5th, 6th, 7th and 8th semesters

https://gmrit.edu.in/PDFs/curriculum/B.Tech_AIDS_Syllabus_AR23.pdf

https://gmrit.edu.in/PDFs/curriculum/B.Tech_AIML_Syllabus_AR23.pdf

https://gmrit.edu.in/PDFs/curriculum/B.Tech_Civil_Syllabus_AR23.pdf

https://gmrit.edu.in/PDFs/curriculum/B.Tech_EEE_Syllabus_AR23.pdf

https://gmrit.edu.in/PDFs/curriculum/B.Tech_CSE_Syllabus_AR23.pdf

https://gmrit.edu.in/PDFs/curriculum/B.Tech_ECE_Syllabus_AR23.pdf

https://gmrit.edu.in/PDFs/curriculum/B.Tech_Mech_Syllabus_AR23.pdf

https://gmrit.edu.in/PDFs/curriculum/B.Tech_IT_Syllabus_AR23.pdf