

1.2.1(B) Minutes of relevant Academic Council/BOS meetings highlighting the name of the New Courses introduced

Department of Electrical and Electronics Engineering

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Department of Electrical and Electronics Engineering

Fifth Semester						
21IT306	Fundamentals of Object Oriented Programming	1,2,3,4,5,6,9,12	3	-	2	4
21EE502	Control Systems	1,2,3,4,5,6,9,12,PSO1,PSO2	3	-	2	4
21EE503	Electrical Drives	1,2,3,6,12,PSO1,PSO2	3	-	-	3
21EE504	Power System Protection	1,2,3,6,7,8,12,PSO1,PSO2	3	-	-	3
	Elective I (Professional Elective)		3	-	-	3
	Elective II (Open Elective I)		3	-	-	3
21EE507	Power Electronics and Drives Lab	1,2,3,4,5,9,11,12,PSO1,PSO2	-	-	3	1.5
21TPX01	Term Paper	1,2,4,5,8,9,10,11,12,PSO2	-	-	3	1.5
21ESX02	Employability Skills II	1,2,3,4,5,9,10,11,12	-	-	2	-
21HSX12	CC & EC Activities II	9,10,12	-	-	1	-
21SIX01	Summer Internship I	1,2,3,6,7,8,9,10,11,12,PSO1,PSO2				1
		Total	18	-	13	24

Commented [DG1]: Approved in the 18th Academic Council Meeting

Sixth Semester						
1	21HSX10	Engineering Economics and Project Management	1,2,3,4,5,6,7,8,9,10,11,12	3	-	-
2	21EE602	Power System Analysis and Control	1,2,3 ,6,7,8,12,PSO1,PSO2	3	-	-
3	21EE603	Utilization of Electrical Energy	1,2,3 ,6,7,12,PSO1,PSO2	3	-	-
4		Elective III (Professional Elective)		3	-	2
5		Elective IV (Open Elective II)		3	-	-
6	21EE606	Power Systems Lab	1,2,3 ,4,5,9,11,12,PSO1,PSO2	-	-	3
7	21MPX01	Mini Project	1 to12,PSO1,PSO2	-	-	3
8	21ESX02	Employability Skills II	1,2,3 ,4,5,9,10,11,12	-	-	2
9	21HSX12	CC & EC Activities II	9,10,12	-	-	1
10	21ATX01	Environmental Studies	1,3,6,7	-	-	-
11	21ATX02	Professional Ethics and Human Values	-----	-	-	-
12	21ATX---	Audit Course	-----	-	-	-
		Total	15	-	11	22

Commented [DG2]: Approved in the 18th Academic Council Meeting

Seventh Semester						
1		Elective V (Professional Elective)		3	-	-
2		Elective VI (Professional Elective)		3	-	-
3		Elective VII (Open Elective III)		3	-	-
4	21SIX02	Summer Internship II	1 to 12,PSO1,PSO2	-	-	-
5	21PWX01	Project	1 to 12,PSO1,PSO2	-	-	16
		Total	9	-	16	18

Commented [DG3]: Approved in the 18th Academic Council Meeting

Eighth Semester						
1		Elective VIII (Professional Elective)		-	-	-
2		Elective IX (Open Elective IV)		-	-	-
3	21FIX01	Full Semester Internship (FSI)	1 to 12,PSO1,PSO2	-	-	-
		Total	-	-	-	14

Commented [DG4]: Approved in the 18th Academic Council Meeting

List of Electives

Language Electives			POs	Contact Hours					
No.	Course Code	Course		L	T	P	C		
1	21HSX03	Advanced Communicative English	6,9,10,11,12	2	-	-	2		
2	21HSX04	Communicative German		2	-	-	2		
3	21HSX05	Communicative French		2	-	-	2		
4	21HSX06	Communicative Japanese		2	-	-	2		
5	21HSX07	Communicative Spanish		2	-	-	2		
6	21HSX08	Communicative Korean		2	-	-	2		
7	21HSX09	Communicative Hindi		2	-	-	2		
Elective I							Commented [DG5]: Approved in the 18th Academic Council Meeting		
Career Path I, II, III and Other Core Electives									
1	21EEC11	Electrical Vehicle Technologies	2,3,4,7,12,PS01,PS02	3	-	-	3		
2	21EEC21	Green Energy Technologies	1,2,3,6,7,12,PS01,PS02	3	-	-	3		
3	21EEC31	Micro and Smart Grid Technologies	2,3,6,7,12,PS01,PS02	3	-	-	3		
4	21EE004	Electrical Machine Design	1,2,3,8,12,PS01,PS02	3	-	-	3		
5	21EE005	High Voltage DC Transmission	1,2,3,6,7,12,PS01,PS02	3	-	-	3		
6	21EE006	Special Electrical Machines	1,2,3,7,12,PS01,PS02	3	-	-	3		
Elective II							Commented [DG6]: Approved in the 18th Academic Council Meeting		
Career Path I, II, III and Other Core Electives									
1	21EEC12	Electric Vehicle Drive Train Systems	1,2,3 ,4,5,6,7,9,12,PS01,PS02	3	-	2	4		
2	21EEC22	Power Electronic Applications to Green Energy Systems	1,2,3 ,4,5,6,7,9,12,PS01,PS02	3	-	2	4		
3	21EEC32	Control and Instrumentation of Smart Grid Systems	1,2,3 ,4,5,6,7,12,PS01,PS02	3	-	2	4		
4	21EE007	Advanced Control Systems	1,2,3,4,5,6,12,PS01,PS02	3	-	2	4		
5	21EE008	Discrete Signal Processing	1,2,3,4,5,6,12,PS01,PS02	3	-	2	4		
6	21EE009	Machine Modelling and Steady State Analysis	1,2,3 ,4,5,6,8,12,PS01,PS02	3	-	2	4		
Elective V							Commented [DG7]: Approved in the 18th Academic Council Meeting		
Career Path I, II, III and Other Core Electives									
1	21EEC13	Battery Management Systems	1,2,3,6,7,12, PS01,PS02	3	-	-	3		
2	21EEC23	Hybrid Renewable Energy Systems Design	1,2,3,6,7,12, PS01,PS02	3	-	-	3		
3	21EEC33	Communication and Security in Smart Grid	1,2,3,6,7,8,12, PS01,PS02	3	-	-	3		
4	21EE010	Electrical Distribution Systems	1,2,3,6,7,8,12, PS01,PS02	3	-	-	3		
5	21EC401	Analog and Digital Communications	1,2,3,6,7,12, PS01,PS02	3	-	-	3		
6	21T304	Database Management Systems	1,2,3,6,8,12	3	-	-	3		
Elective V							Commented [DG8]: Approved in the 18th Academic Council Meeting		
1	21EE011	Energy Audit, Conservation and Management	1,2,3,6,7,8,12, PS01,PS02	3	-	-	3		
2	21EE012	Microprocessors and Microcontroller Interfacing	1,2,3,6,12, PS01,PS02	3	-	-	3		
3	21EE013	Programmable Logic Controllers	1,2,3,6,12, PS01,PS02	3	-	-	3		
Elective VIII (Professional Elective)							Commented [DG9]: Approved in the 18th Academic Council Meeting		
1	21EE014	Power System Deregulation	1,2,3,6,7,12, PS01,PS02	-	-	-	3		
2	21EE015	Power System Dynamics & Control	1,2,3,8,12, PS01,PS02	-	-	-	3		
3	21EE016	High Voltage Engineering	1,2,3,6,8,12, PS01,PS02	-	-	-	3	Commented [DG10]: Approved in the 18th Academic Council Meeting	

Department of Electrical and Electronics Engineering

Third Semester

23MA302	Engineering Mathematics III	1,2,3,4,5,9,11,12,PSO1,PSO2	3	-	2	4
23EE302	DC Machines and Transformers	1,2,3,6,12,PSO1,PSO2	3	-	-	3
23EE303	Electrical Circuit Analysis-II	1,2,3,6,7,12,PSO1,PSO2	3	-	-	3
23EE304	Electromagnetic Field Theory	1,2,3,6,7,12,PSO1,PSO2	3	-	-	3
23EE305	Measurements and Instrumentation	1,2,3,6,12,PSO1,PSO2	3	-	-	3
23EE306	Semiconductor Devices and Circuits	1,2,3,4,5,6,12,PSO1,PSO2	3	-	2	4
23EE307	DC Machines Lab	1,2,3,4,5,9,11,12,PSO1,PSO2	-	-	3	1.5
23EE308	Python Programming lab	1,2,3,4,5,9,11,12,PSO1,PSO2	-	-	3	1.5
23ESX01	Employability Skills I	1,2,3,4,5,9,10,11,12	-	-	2	-
Total		18	-	12	-	23

Commented [DG11]: Approved in the
20th Academic Council Meeting

Fourth Semester

23EE401	AC Machines	1,2,3,6,12,PSO1,PSO2	3	-	-	3
23EE402	Linear and Digital Integrated Circuits	1,2,3,4,5,6,9,11,12,PSO1,PSO2	3	-	2	4
23EE403	Power Electronics	1,2,3,6,12,PSO1,PSO2	3	-	-	3
23EE404	Power Generation, Transmission and Distribution	1,2,3,6,7,8,12,PSO1,PSO2	3	-	-	3
23EE405	Signals and Systems Theory	1,2,3,6,12,PSO1,PSO2	3	-	-	3
23EE406	AC Machines Lab	1,2,3,4,5,9,11,12,PSO1,PSO2	-	-	3	1.5
23EE407	Measurements and Instrumentation Lab	1,2,3,4,5,9,11,12,PSO1,PSO2	-	-	3	1.5
23ESX01	Employability Skills I	1,2,3,4,5,9,10,11,12	-	-	2	2
Total		15	-	10	-	21

Commented [DG12]: Approved in the
20th Academic Council Meeting

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)**.



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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, 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.



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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

MINUTES OF THE 18th ACADEMIC COUNCIL MEETING

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

