

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

Department of Civil Engineering

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Department of Civil Engineering

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

First Semester						
No	Course Code	Course	POs	Contact Hours		
				L	T	P
1	21HSX01	Communicative English	10, 12	2	-	-
2	21MAX01	Engineering Mathematics I	1	3	-	-
3	21PYX01 21CYX01	Engineering Physics / Engineering Chemistry	1 / 1	3/3	-	-
4	21BEX01 21BEX06	Basics of Engineering / IT Workshop	1,12/1,12	3/-	-	-/ 3
5	21BEX02	Problem Solving and Programming Skills	1, 12	3	-	-
6	21BEX03	Problem Solving and Programming Skills Lab	4	-	-	3
7	21BEX04/ 21BEX05	Engineering Drawing / Engineering Workshop	1,5,10/1, 9,10	-	-	3/3
8	21PYX02/ 21CYX02	Engineering Physics Lab /Engineering Chemistry Lab	4/4	-	-	3/3
9	21HSX02/-	Communicative English Lab/-	10,12	-	-	3/-
Total			14/ 11	-	12/ 12	20/17
Second Semester						
1		Language Elective	10,12	2	-	-
2	21MAX02	Engineering Mathematics II	1	3	-	-
3	21CYX01/ 21PYX01	Engineering Chemistry /Engineering Physics	1/1	3/3	-	-
4	21BEX01/ 21BEX06	Basics of Engineering/ IT Workshop	1,12/1,12	-/3	-	3/-
5	21BEX07	Python Programming	1,12	3	-	-
6	21BEX08	Python Programming Lab	4	-	-	3
7	21BEX05/ 21BEX04	Engineering Workshop / Engineering Drawing	1,9,10/ 1,5,10	-	-	3/3
8	21CYX02/ 21PYX02	Engineering Chemistry Lab/Engineering Physics Lab	4/4	-	-	3/3
9	-/21HSX02	-/Communicative English Lab	-/10,12	-	-	-/3
Total			11/ 14	-	12/ 12	17/20
Third Semester						
1	21MA303	Numerical Methods	1, 12	3	-	-
2	21CE302	Building Materials and Concrete Technology	2,4,8, 12, PSO1	3	-	2
3	21CE303	Building Planning and Drawing	5, 10, 12	3	-	2
4	21CE304	Fluid Mechanics	1, 12	3	-	-
5	21CE305	Solid Mechanics I	1, 12	3	-	-
6	21CE306	Surveying	1, 2, 10, 12	3	-	-
7	21CE307	Solid Mechanics Laboratory	1, 4	-	-	3
8	21CE308	Surveying Laboratory	1, 4	-	-	3
9	21ESX01	Employability Skills I	1,2,5,8,10, 12	1	-	1
10	21HSX11	CC & EC Activities I	6,7,9,10	-	-	1
Total			19	-	12	23
Fourth Semester						
1	21CE401	Hydraulics and Hydraulic Machinery	1, 12	3	-	-
2	21CE402	Soil Mechanics	1, 2, 12, PSO1	3	-	-

3	21CE403	Solid Mechanics II	1, 12	3	-	-	3
4	21CE404	Structural Analysis	1, 12	3	-	-	3
5	21CE405	Transportation Engineering	3, 12, PSO2	3	-	2	4
6	21CE406	Fluid Mechanics and Hydraulic Machinery Laboratory	1, 4	-	-	3	1.5
7	21CE407	Soil Mechanics Laboratory	1, 4	-	-	3	1.5
8	21ESX01	Employability Skills I	1,2,5,8,10, 12	1	-	1	2
9	21HSX11	CC & EC Activities I	6,7,9,10	-	-	1	1
Total				16	-	10	22

Fifth Semester

1	21CE501	Design and Detailing of RC Structures	3, 10, 12,PSO2	3	-	2	4
2	21CE502	Environmental Engineering	3, 6, 7, 12	3	-	-	3
3	21CE503	Foundation Engineering	2, 3, 8, 12,PSO2	3	-	-	3
4	21CE504	Hydrology	2, 3, 12	3	-	2	4
5		Elective I (Professional Elective)		3	-	-	3
6		Elective II (Open Elective I)		3	-	-	3
7	21CE505	Environmental Engineering Laboratory	3, 6, 7, 12	-	-	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	1	-	1	-
10	21HSX12	CC & EC Activities II	6,7,9,10	-	-	1	-
11	21SIX01	Summer Internship I	1,2,8,10, 12	-	-	-	1
Total				19	-	12	24

Sixth Semester

1	21CE601	Problem solving using OOPS	1, 5, 12	3	-	-	3
2	21CE602	Design of Steel Structures	3, 5, 10, 12,PSO2	3	-	-	3
3	21CE603	Estimation and costing	1,12	3	-	-	3
4		Elective III (Professional Elective)		3	-	2	4
5		Elective IV (Open Elective II)		3	-	-	3
6	21CE604	Programming Language Laboratory	1,2,3,5	-	-	3	1.5
7	21MPX01	Mini Project	1,2,3,4,5,6, 7,8,9,10, 11,12,PSO1 , PSO2	-	-	3	1.5
8	21ESX02	Employability Skills II	1,2,5,8,10, 12	1	-	1	2
9	21HSX12	CC & EC Activities II	6,7,9,10	-	-	1	1
10	21ATX01	Environmental Studies	1,3,6,7	-	-	-	-
11	21ATX02	Professional Ethics and Human Values	---	-	-	-	-
12	21ATX---	Audit Course	---	-	-	-	-
Total				16	-	10	22

Seventh Semester

1		Elective V (Professional Elective)		3	-	-	3
2		Elective VI (Professional Elective)		3	-	-	3
3		Elective VII (Open Elective III)		3	-	-	3
4	21PWX01	Project Work	1,2,3,4,5,6, 7,8,9,10,11 ,12, PSO1, PSO2	-	-	16	8
5	21SIX02	Summer Internship II	1,2,5,6,10, 12	-	-	-	1
Total				9	-	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,PSO1, PSO2	-	-	-	8
Total				-	-	-	14

Elective I**Career Path I, II, III, IV and Other Core Electives**

1	21CEC11	Principles of Building Architecture	1,3,PSO1, PSO2	3	-	-	3
2	21CEC21	Geometric Design and Highway Materials	1,3,PSO2	3	-	-	3
3	21CEC31	Prefabricated Structures	3, PSO2	3	-	-	3
4	21CEC41	Data Analysis and Visualization Using Python	1,2,5,12	3	-	-	3
5	21CE004	Construction Techniques	4,5,11, PSO2	3	-	-	3
6	21CE005	Airport, Railways and Harbour Engineering	1,3,12	3	-	-	3
7	21CE006	Construction Economics and Finance	3,10,11	3	-	-	3

Comment [I1]: New Course approved 18th Academic Council Meeting

Elective III**Career Path I, II, III,IV and Other Core Electives**

1	21CEC12	Building Services	3,7,12 PSO2	3	-	2	4
2	21CEC22	Highway Design and Simulation	1,3,PSO2	3	-	2	4
3	21CEC32	Pre Engineered Buildings	3,11	3	-	2	4
4	21CEC42	ML for Civil Engineering	1,2,4,5,12	3	-	2	4
5	21CE007	Engineering Geology	1,2,4, PSO1	3	-	2	4
6	21CE008	Irrigation and Water Resources Engineering	3, 5, 10, 12	3	-	2	4

Comment [I2]: New Course approved 18th Academic Council Meeting

Elective V**Career Path I, II, III,IV and Other Core Electives**

1	21CEC13	Building Information Modeling	3,5,10, PSO2	3	-	-	3
2	21CEC23	Highway Project Formulation and Economics	2,5,10, PSO2	3	-	-	3
3	21CEC33	BIM for Pre-Engineered Building	3,5,10, PSO2	3	-	-	3
4	21CEC43	AI for Civil Engineering	1,2,4,5,12	3	-	-	3
5	21CE010	Ground Improvement Techniques	2, 12, PSO1, PSO2	3	-	-	3
6	21CE011	Advanced Reinforced Concrete Design	2,3,10,12,P SO2	3	-	-	3
7	21CE012	Construction Methods and Equipment	2,7,12	3	-	-	3

Comment [I3]: New Course approved 18th Academic Council Meeting

Elective VI

1	21CE013	Basics of Dynamics and Earthquake Engineering	1,2,3,12, PSO2	3	-	-	3
2	21CE014	Pavement Analysis and Design	3,12,PSO2	3	-	-	3
3	21CE015	Prestressed Concrete Structures	3,10,12, PSO2	3	-	-	3

Comment [I4]: New Course approved 18th Academic Council Meeting

Elective VIII

1	21CE016	Repair and Rehabilitation of Structures	2,7,12, PSO2	-	-	-	3
2	21CE017	Spatial Analysis Techniques in Remote Sensing and GIS	1,2,5	-	-	-	3
3	21CE018	Pavement Management System	5,12	-	-	-	3

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, 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

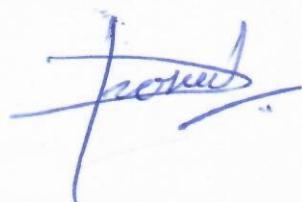
Ratification of results of 2nd phase semester end exams for all the COVID-19 infected students during 2021-22.

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**

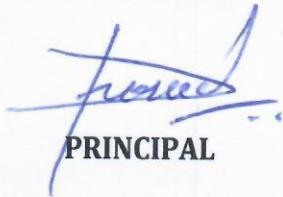
Chairman presented the recommendations of all the seven Board of Studies with regard to the detailed Syllabi for 7th and 8th semesters under the Academic Regulation AR 19 and AR 20 for the B. Tech. (Regular), B. Tech. (Honors) and B. Tech (Minor) Programs for the ratification of Academic Council

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

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

