



VARDHAMAN COLLEGE OF ENGINEERING (AUTONOMOUS)

Affiliated to JNTUH, Approved by AICTE, Accredited by NAAC with A++ Grade, ISO 9001:2015 Certified
Kacharam, Shamshabad, Hyderabad – 501218, Telangana, India

12th Academic Council Meeting | 18-12-2021 | Minutes

Minutes of 12th Academic Council Meeting held on 18-12-2021, at 11.00 AM in Board Room, Block # 1, VCE, Hyderabad

Members Present:

#	Name	Affiliation	Category
1	Dr. JVR Ravindra	Principal, VCE	Chairman
2	Dr. G. K. Viswanadh	Professor of CE & Director of UGC-HRDC, JNTUH, Hyderabad	Member
3	Dr. N. Yadaiah	Professor of EEE, JNTUH, Hyderabad	Member
4	Dr. Shakeel Ahmed	Joint Secretary, UGC	Member
5	Sri. Praveen Mokkalapati	Deputy Director, NASSCOM	Member
6	Dr. Pratosh Bansal	Professor of IT, IET, Devi Ahilya Vishwavidyalaya, Indore	Member
7	Dr. M. A. Jabbar	Head, CSE & CSE (AIML), VCE	Member
8	Dr. V. Munisekhar	Head, IT, VCE	Member
9	Dr. G. A. E. Satish Kumar	Head, ECE, VCE	Member
10	Sri. Md. Asif	Head, EEE, VCE	Member
11	Dr. P. Srinivasa Rao	Head, ME, VCE	Member
12	Dr. G. Mallikharjun Rao	Head, CE, VCE	Member
13	Dr. D. Srinivas Reddy	Head, H&S, VCE	Member
14	Dr. V. Srihari	Head, Management Studies, VCE	Member
15	Dr. H. Venkateswara Reddy	Controller of Examinations, VCE	Member
16	Dr. P. Nageswara Rao	Dean IQAC, VCE	Member
17	Dr. Mukul Shrivastava	Dean (Outreach), VCE	Member
18	Dr. S. Rajendar	Dean (Academics), VCE	Member Secretary

The Principal informed that the Academic Council is re-constituted. The Principal placed on record Council's appreciation for the academic contributions made by all its previous AC members namely;

1. Dr. V. Kamakshi Prasad, Professor, Department of CSE, JNTUH, Hyderabad
2. Dr. N. V. Ramana, Professor, Department of EEE, JNTUH, Jagtial
3. Dr. N. Ramana Reddy, Consultant Orthopedician & Joint Replacement Surgeon, Star Hospitals, Hyderabad

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4. Smt. Madhvi Chandra, CEO and MD, Geethanjali Schools, Hyderabad
5. Sri. Srikanth Reddy, Advocate, High Court, Hyderabad
6. Sri. K. Rajasekhar Reddy, Industrialist
7. Dr. A. Rajanikanth, Professor, CSE, VCE, Hyderabad
8. Dr. N. Kiran Kumar, Professor, EEE, VCE, Hyderabad
9. Dr. G. V. K. Reddy, Professor, CE, VCE, Hyderabad

He welcomes all the new members of the Academic Council and emphasized that he looks forward to their co-operation and valuable contribution to the deliberation in the meetings of the Academic Council. All the new members were introduced to the Council. The new members are:

1. Dr. N. Yadaiah, Professor, Department of EEE, JNTUH, Hyderabad
2. Dr. A. Chennakesava Reddy, Professor, Department of ME, JNTUH, Hyderabad
3. Dr. Shakeel Ahmed, Joint Secretary, UGC
4. Dr. Anand Bhalerao, Principal and Dean, Bharati Vidyapeet University College of Engineering, Pune
5. Sri. Praveen Mokkaapati, Deputy Director, NASSCOM
6. Dr. Pratosh Bansal, Professor, Department of IT, IET, Devi Ahilya Vishwavidhyalaya, Indore
7. Sri. Md. Asif, Head, EEE, VCE, Hyderabad
8. Dr. Mukul Shrivastava, Dean (Outreach), VCE, Hyderabad
9. Sri. Manish K Srivastava, Dean (Training and Placements), VCE, Hyderabad

The Chairman informed the members about the change in intake of UG programs. The intake for the academic year 2021-2022 is as listed in table 1 below:

Table 1: Intake for AY 2021-2022

#	UG/PG	Name of the Program	Sanctioned Intake
1	UG	B.Tech Civil Engineering	60
2	UG	B.Tech Electrical and Electronics Engineering	60
3	UG	B.Tech Mechanical Engineering	60
4	UG	B.Tech Electronics and Communication Engineering	180
5	UG	B.Tech Computer Science and Engineering	240
6	UG	B.Tech Information Technology	180
7	UG	B.Tech Computer Science and Engineering (Artificial Intelligence and Machine Learning)	180
8	UG	B.Tech Artificial Intelligence and Machine Learning	60
9	UG	B.Tech Artificial Intelligence and Data Science	60
10	PG	M.Tech Structural Engineering	18
11	PG	M.Tech Power Electronics and Electric Drives	18
12	PG	M.Tech Engineering Design	18
13	PG	M.Tech Digital Electronics and Communication Systems	18

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#	UG/PG	Name of the Program	Sanctioned Intake
14	PG	M.Tech Computer Science and Engineering	18
15	PG	Master of Business Administration	60
Total Intake			1230

As per the guidelines issued in G.O.Ms.No. 244 General Administration (SER.D) Department, dated: 24-08-2021, 10% reservation to the Economically Weaker Sections (EWS) in respect of Admissions into Educational Institutions shall apply. Based on these guidelines, excess students have joined during the academic year 2021-2022.

The Chairman then requested the Member Secretary to take up the agenda items for discussion and approval.

1. Items for Confirmation

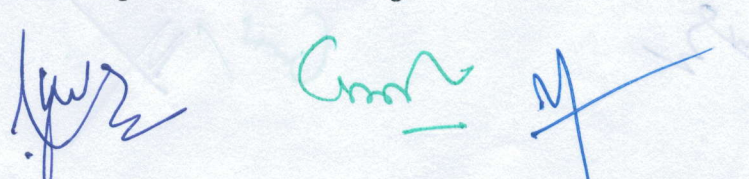
1.1 Confirmation of the minutes of 11th academic council meeting held on 29th November 2020

The minutes of the 11th academic council meeting held on 29th November 2020 were confirmed.

1.2 Action Taken Report on the Decisions on 11th Academic Council Meeting

The action taken report on the decisions of the 11th meeting of academic council was confirmed by the council with the following observations:

- Constitution of Standing Committee – During the pandemic, to schedule the instruction and examinations and other day-to-day academic activities, an internal standing committee may be constituted with Principal being the chairman and all HODs as members to take appropriate decisions as per the instructions of Government of Telangana and JNTUH.
- Student Induction Program – Three-week induction program has to be conducted in two phases with two weeks at the beginning of I year I semester and one week at the beginning of I year II semester.
- Universal Human Values 1 and 2: The modules of universal human values -1 is covered in the student induction program and universal human values – 2: understanding harmony is covered in the II year as a 3 credit course.
- Student Support System – The student support system has to be strengthened to provide facility to participate in Co-curricular and Extracurricular activities, Professional Society Activities and encourage the students through Meritorious Awards.



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(e) Faculty Support System – The faculty may be provided incentives and required facilities for encouraging them to publish papers, books/book chapters, patents and apply for funded research projects. Also, encourage to enhance their skills in the latest technologies by attending FDPs/Workshops/Certifications and also encourage them to pursue their Higher Education.

2. Items for Information

2.1 Accreditation of UG Program B. Tech Civil Engineering by NBA for 3 years under Tier-I.

NBA – B.Tech Civil Engineering: Vide F.No. 11-131-2010-NBA dated 04-10-2021, B.Tech Civil Engineering accredited by NBA under Tier-1 for a period of 3 years valid from 01-07-2021 to 30-06-2024 (For the Academic Years 2021-22 to 2023-24)

The Council noted and congratulated the Principal, VCE and Head, Department of Civil Engineering.

2.2 Accreditation by NAAC Cycle-2 at A++ Grade with GPA of 3.58 on a scale of 4.

NAAC Cycle-2: Vide F.19.26/EC(SC-61)/DO/2018/To consider Peer Team Reports dated 16-03-2021, Vardhaman College of Engineering is by NAAC with a CGPA of 3.58 on a seven-point scale at A++ grade valid for a period of 5 years from 16-03-2021.

The Council appreciated and congratulated the Principal and his team for their efforts in achieving the grade.

2.3 VCE Ranked 141 in National Institute Ranking Framework released by Ministry of Education for the year 2021.

The institution is ranked 141 in Engineering Category of National Institutional Ranking Framework released by Ministry of Education, Govt. of India for the year 2021. The institution is also ranked in the band of 151-200 in OVERALL category.

The Council noted and congratulated the Principal for sustaining the position in the NIRF ranking.

2.4 Extension of UGC Autonomous status for a period of Ten years from AY 2021-2022 to 2030-2031

UGC Autonomous Status: The UGC has extended the autonomous status to Vardhaman College of Engineering, Hyderabad for a period of Ten (10) years from the session 2021-2022 to 2030-2031 Including ex-post-facto approval for the period 2020-2021. This is with reference to the letter issued by UGC Vide No. F. 22-11/2017(AC) dated 19-05-2021 and presented by the Registrar of JNTUH Vide Procs. No. DI/960/2021 dated 14-06-2021.

The Council noted and congratulated the Principal.

2.5 Extension of NBA Accreditation to 5 UG programs B. Tech ECE, EEE, CSE, ME, and IT

The Council noted the extension of NBA accreditation of five UG programs B.Tech CSE, IT, ECE, EEE & ME: Vide F.No. 11-131-2010-NBA dated 15-06-2021. NBA has granted further accreditation to B.Tech - CSE, IT, ECE, EEE & ME for a period of 1 year valid from 01-07-2021 to 30-06-2022 (For the Academic Year 2021-22)

2.6 Report on conduction of examinations and results for UG and PG Programs

The member secretary presented the report on conduction of examination and their results for UG and PG programs and the pass percentage of 2021 pass out students is listed in table 2 below:

Table 2: Pass Percentage of students pass out during 2020-2021

#	Program	# Registered	# Passed	Percentage (%)
1	B.Tech Civil Engineering	66	57	86.36
2	B.Tech Electrical and Electronics Engineering	141	120	85.11
3	B.Tech Mechanical Engineering	128	102	79.69
4	B.Tech Electronics and Communication Engineering	279	235	84.23
5	B.Tech Computer Science and Engineering	264	236	89.39
6	B.Tech Information Technology	114	89	78.07
7	M.Tech Structural Engineering	4	4	100
8	M.Tech Embedded Systems	7	7	100
9	M.Tech Digital Electronics and Communication Systems	5	5	100
10	Master of Business Administration	55	44	80

2.7 Report on Academic Audit conducted during Academic Year 2020-2021 by IQAC

The academic audit for the academic year 2020-21 as part of Internal Quality Assurance has been conducted during the following dates.

Table 3: Dates of Academic Audit

#	Department	Date(s) of Audit
1	Civil Engineering	23-09-2021 and 09-10-2021
2	Electrical and Electronic Engineering	20-09-2021
3	Electronics and Communication Engineering	20-09-2021
4	Mechanical Engineering	21-09-2021
5	Computer Science and Engineering	01-10-2021
6	Information Technology	22-09-2021
7	Master of Business Administration	21-09-2021
8	Freshman Engineering (B.Tech I Year)	29-09-2021

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The documents verified during the audit are

1. Course Files and Project Work
2. Attainment of COs and POs of Batch 2017-2021
3. Department Score Card

The council noted and appreciated the process of academic audit. The details of academic audit and the report is enclosed in Annexure A2.7.

2.8 Report on Placements for the Academic year 2020-2021 and 2021-2022

The member secretary presented the statistics of placements during 2020-2021 and 2021-2022 as on date (18-12-2021).

Table 4: Placement Statistics AY 2020-2021

#	Branch	CSE	IT	ECE	EEE	MECH	CIVIL	TOTAL
1	Total Batch Size	264	114	297	140	127	66	1008
2	Total PAT Registered Students	219	80	213	82	84	40	718
3	Multiple Offers	473	171	392	92	85	16	1229
4	Single Offers	187	68	171	61	81	15	583
5	Percentage of Single Offers	85.39	85.00	80.28	74.39	96.43	37.5	81.20

Table 5: Placement Statistics AY 2021-2022

#	Branch	CSE	IT	ECE	EEE	MECH	CIVIL	TOTAL
1	Total Batch Size	263	130	265	131	126	73	988
2	Total PAT Registered Students	205	90	191	85	80	3	654
3	Multiple Offers	596	244	386	139	143	3	1511
4	Single Offers	183	77	156	76	79	3	574
5	Percentage of Single Offers	89.27	85.56	81.68	89.41	98.75	100	87.77

The Council noted and appreciated the efforts of Principal and Dean (Training and Placements). The details of placements for the Ay 2020-2021 and 2021-2022 as on date is enclosed in annexure A2.8

2.9 Details of BOS meetings held from July 2021 to till date

BOS Meetings held during October 2021 for finalizing curriculum for III & IV Year B.Tech of 2020 admitted batch of VCE-R20 academic regulations; and I & II Year B.Tech of 2021 admitted batch onwards along with M.Tech 2021 admitted batch onwards under VCE-R21 academic regulations.

Table 6: Dates of BOS Meeting held from July 2021 to till date (18-12-2021)

#	Department	Date(s) of BOS Meeting
1	Civil Engineering	30-10-2021
2	Electrical and Electronic Engineering	25-10-2021
3	Mechanical Engineering	22-10-2021

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#	Department	Date(s) of BOS Meeting
4	Electronics and Communication Engineering	23-10-2021
5	Computer Science Engineering	27-10-2021
6	Information Technology	21-10-2021
7	CSE (AIML)	27-10-2021
8	Artificial Intelligence & Machine Learning	27-10-2021
9	Artificial Intelligence & Data Science	27-10-2021
10	Humanities and Sciences	29-10-2021

The dates of various departments BOS meetings for the period from July 2021 till date were noted by the Council. The copy of the BOS minutes is provided at Annexure A2.9.

2.10 Feedback on Curriculum from various stakeholders and Action Taken Report

The member secretary briefed the process of stakeholder feedback on curriculum and is listed below.

Feedback Collection:

- Feedback is collected from stakeholders – students, faculty, alumni, and employers
- Feedback is collected from internal stakeholders (faculty and students) by conducting meetings periodically and the inputs are recorded.
- Feedback is collected from alumni and employers during their visits to the campus or seek inputs through Placement Officer.

Feedback Analysis:

- Consolidated report on the analysis of feedback is prepared and submitted for Board of Studies to consider for revision of syllabus

Action Taken Report:

- Action Taken Report is prepared by the concerned Chairman of the BOS and get it confirmed with the BOS.

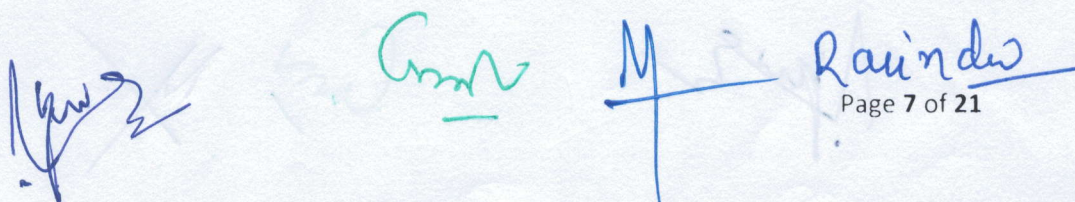
The Council noted the process of stakeholder feedback on curriculum. The feedback analysis report along with action taken report is enclosed in Annexure A2.10.

3. Items for Approval

3.1 Approval of BOS Members of the Departments

Composition of Board of Studies:

1. Head of the Department concerned (Chairman).
2. The entire faculty of each specialization.
3. Two subject experts from outside the Parent University to be nominated by the Academic Council.



4. One expert to be nominated by the Vice-Chancellor from a panel of six recommended by the college principal.
5. One representative from industry/corporate sector/allied area relating to placement.
6. One postgraduate meritorious alumnus to be nominated by the principal.
7. The Chairman, Board of Studies, may with the approval of the principal of the college, co-opt:
 - (a) Experts from outside the college whenever special courses of studies are to be formulated.
 - (b) Other members of staff of the same faculty.

Term: The term of the nominated members shall be three years.

Meetings: The Board of Studies shall meet at least twice a year.

The Council approved the Board of Studies composition and its members as presented by member secretary and the list is enclosed in Annexure-A3.1

3.2 Approval of DAC Members of the Departments

The departments have constituted the department advisory committee with the following composition.

Composition of DAC:

1. Head of the Department as Chairman
2. Senior Professor in the Department as Convener
3. Academic Expert
4. Industry Expert
5. Alumni
6. Two senior faculty in the department

The Council approved the Department Advisory Committee composition and its members as presented by member secretary and the list is enclosed in Annexure-A3.2. The tenure for the DAC is 2 years and it meets atleast twice in a year.

3.3 Approval of academic regulations of B.Tech regular degree program with effect from 2021-2022

B.Tech Academic Regulations

The four-year curriculum of any B. Tech. program of study shall have 160 credits in total. In the case of lateral entry students, B. Tech. program of study shall have a total of 122 credits.

Curricular Components

The curriculum includes various curricular components like Foundation Courses (HS, BS and ES), Core Courses (PC & PW), Elective Courses (PE & OE), and Mandatory Courses (MC)

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Table 7: Category-wise distribution of credits

#	Course Category		Percentage of Credits		Typical Credits
			Minimum	Maximum	
1	Humanities and Social Sciences including Management Courses	HS	5	10	12
2	Basic Sciences	BS	10	20	22
3	Engineering Sciences	ES	10	20	24
4	Professional Core	PC	30	40	56
5	Mini-Project, Internship, and Project Work	PW	7	20	16
6	Professional Electives	PE	10	15	18
7	Open Electives	OE	5	10	12
8	Mandatory Courses (Non-Credit)	MC	-	-	-
Total					160

Academic Requirements

Attendance Requirements

- Minimum of 75% of attendance in aggregate of all the courses
- 65% and above, and below 75% - Condonation
- Below 65% - Detention due to shortage of attendance

Credit Requirements

- Shall register for all 160 credits (122 credits for LE) and shall earn all the credits
- Should register for all mandatory courses mentioned in the curriculum and get minimum pass marks

Assessment Tools

Table 8: Assessment Tools for Regular Courses

Type of Course	Assessment Tools									
	CIE Marks (30% Weightage)							SEE Marks (70% Weightage)		
	CAT1		CAT2		AAT		CIE Total	SEE		SEE Total
	Theory	Practice	Theory	Practice	Theory	Practice		Theory	Practice	
Integrated Course	30	10	30	10	15	5	100	75	25	100
Theory Course	40	-	40	-	20	-	100	100	-	100
Practical Course	-	40	-	40	-	20	100	-	100	100

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Table 9: Assessment Tools: Internship/Mini-Project/Project Work (Phase-I/Phase-II)

Type of Course	Assessment Tools				
	CIE Marks (100% Weightage)				SEE Marks (100% Weightage)
	Review1	Review2	Review3	Total	SEE
Internship	30	30	40	100	-
Mini-Project	30	30	40	100	-
Project Work (Phase – I)	30	30	40	100	-
Project Work (Phase – II)	30	30	40	100	100

Passing Standards

- Regular courses (Theory, Practical and PW Phase-II): 35% of marks in SEE and 40% of marks in the sum total of the CIE and SEE.
- Integrated courses: 35% of marks in each of the theory and practical components of SEE and 40% of marks in the sum total of the CIE and SEE.
- Mini-project, internship, and project work (Phase-I): 40% of marks (CIE).
- Audit Courses (Non-credit): 40% of marks (SEE).

Vertical Progression

Table 10. Conditions to be fulfilled for vertical progression

#	Promotion	Conditions to be fulfilled
1	First Year to Second Year	Regular: 19 credits out of 38 credits i.e., 50% credits up to first year second semester
2	Second Year to Third Year	Regular: 49 credits out of 82 credits i.e., 60% credits LE: 22 credits out of 44 credits i.e., 50% of credits up to second year second semester
3	Third Year to Fourth Year	Regular: 75 credits out of 126 of credits i.e., 60% credits LE: 52 credits out of 88 credits i.e., 60% credits up to third year second semester

Note: The required credits must be obtained from all the relevant regular and supplementary examinations (till the end of II or III year), whether the student takes those examinations or not.

Award of Class

Table 11: The required and applicable conditions for award of class

Class Awarded	Required CGPA	Applicable Conditions
First Class with Distinction	≥ 8.0	Should have a) secured CGPA ≥8.0 b) passed all the courses in 'first appearance' throughout the program of the study.

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Class Awarded	Required CGPA	Applicable Conditions
		c) met all the academic requirements as prescribed
First Class	≥ 6.5 to < 8.0	Students with CGPA ≥ 8.0 and not fulfilling the conditions applicable for First Class with Distinction shall be placed in First Class only
Second Class	5.5 to < 6.5	-
Pass Class	5.0 to < 5.5	-
Fail	Below 5.0	-

The Council approved the academic regulations of B.Tech regular degree program with effect from 2021-2022.

3.4 Approval of academic regulations for Minors degree programs with effect from 2021-2022

Minor Degree Program: The students obtaining minor degree along with regular degree is awarded with "B. Tech. in branch name with Minor in secondary discipline".

Academic Regulations:

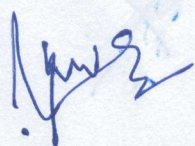

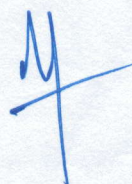
- Student needs to earn additional 18 credits
- These 18 credits are to be earned from the additional Courses offered by the host department in the college as well as from the MOOCs platform
- The student can withdraw from all the courses registered and/or the credits earned for Minor program at any time
- The student has to earn the required credits in twice the duration of the program
- The student can choose only one Minor program along with his/her basic engineering degree.
- A student who chooses a Minor program is not eligible to choose an Honours program and vice-versa
- The students can register for the Minor program in III year I semester if they fulfil the eligibility criteria
- All these 18 credits need to be completed in III year and IV year only
- The weekly instruction hours, internal & external evaluation and award of grades are on par with regular 4-Years B. Tech. program.

Eligibility Criterion:

A student can opt for B.Tech. degree with Minor program if she/he has no active backlogs till II Year I Semester (III semester) at the time of entering into III year I semester.

Registration for the Courses in Minor Program:

- The students should choose a course from the list against each semester (from Minors course structure)

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- No course should be identical to that of the regular B.Tech. course.
- The maximum number of courses for the Minor is limited to two in a semester along with regular semester courses.
- The registration fee to be collected from the students is Rs. 1000/- per one credit.

Table 12. Minor Course Structure

#	Year/Semester	Minor Courses	Credits
1	III B.Tech I Semester	Minor Course – 1 (Theory)	3
		Minor Course – 2 (Theory)	3
2	III B.Tech II Semester	Minor Course – 3 (Theory)	3
		Minor Course – 4 (Practical)	2
3	IV B.Tech I Semester	Minor Course – 5 (Theory)	3
		Minor Course – 6 (Practical)	2
4	IV B.Tech II Semester	Mini-Project on Minor Specialization	2
	Total Credits		18

Table 13: Minor Programs and the Offering Departments

#	Minor Program	Eligible branch of students	Offering Department	Award of Degree
1	Artificial Intelligence & Machine Learning	B.Tech. in CSE, IT, ECE, EEE, ME and CE	CSE	"B. Tech. in <u>branch name</u> with Minor in Artificial Intelligence & Machine Learning"
2	Cyber Security	B.Tech. in CSE, IT, CSE (AI&ML), AI&ML, AI&DS, ECE, EEE, ME, and CE	CSE	"B. Tech. in <u>branch name</u> with Minor in Cyber Security"
3	Data Science	B.Tech. in CSE, IT, CSE (AI&ML), AI&ML, ECE, EEE, ME, and CE	CSE	"B.Tech. in <u>branch name</u> with Minor in Data Science"
4	IOT	B.Tech. in CSE, IT, CSE (AI&ML), AI&ML, AI&DS, ECE, EEE, ME, and CE	ECE	"B. Tech. in <u>branch name</u> with Minor in IOT"
5	Innovation and Entrepreneurship	B.Tech. in CSE, IT, CSE (AI&ML), AI&ML, AI&DS, ECE, EEE, ME, and CE	MBA	"B. Tech. in <u>branch name</u> with Minor in Innovation and Entrepreneurship"

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The Council approved the academic regulations of minor degree programs with effect from 2021-2022 and the current III year students should register the courses for the required credits during III year II semester, IV year I semester and IV year II semester.

3.5 Approval of academic regulations for Honours degree programs with effect from 2021-2022

Honours Degree Program: To expand the domain knowledge of the students laterally and vertically, increase the employability, provide opportunity to pursue higher studies in wide range of specializations.

Academic Regulations:

- Student needs to earn additional 20 credits
- These 20 credits are to be earned from the additional Courses offered by the host department in the college or from closely related departments as well as from the MOOCs platform
- The student can withdraw from all the courses registered and/or the credits earned for Honours program at any time
- A student who chooses a Honour program is not eligible to choose a Minor program and vice-versa
- The students can register for the Honours program in III year I semester if they fulfil the eligibility criteria
- All these 20 credits need to be completed in III year and IV year only
- The weekly instruction hours, internal & external evaluation and award of grades are on par with regular 4-Years B. Tech. program.
- There is no transfer of credits from courses of Honours program to regular B.Tech degree course & vice-versa.
- The Honours program should be offered by the departments with their UG program accredited by NBA and offering one PG program.

Eligibility Criterion:

- A student can opt for B.Tech. degree with Honours, if she/he passed all courses in first attempt in all the semesters till the results announced and maintaining 7.5 or more CGPA.
- If a student fails in any registered course of either B.Tech or Honours in any semester of four years program, he/she will not be eligible for obtaining Honours degree. He will be eligible for only B.Tech degree.

Registration for the Courses in Honours Program:

- The students should choose a course from the list against each semester (from Honours course structure)
- No course should be identical to that of the regular B.Tech. course.

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- The maximum number of courses for the Honour is limited to two in a semester along with regular semester courses.
- The registration fee to be collected from the students is Rs. 1000/- per one credit.

Table 14: Honours Courses and Credits

#	Year/Semester	Honours Courses	Credits
1	III B.Tech I Semester	Honours Course – 1 (Professional Elective – 1)	3
2	III B.Tech II Semester	Honours Course – 2 (Professional Elective – 2)	3
3	III B.Tech II Semester	Honours Course – 3 (Professional Elective – 3)	3
4	IV B.Tech I Semester	Honours Course – 4 (Professional Elective – 4)	3
5	IV B.Tech I Semester	Honours Course – 5 (Professional Elective – 5)	3
6	IV B.Tech I Semester	Honours Course – 6 (Professional Elective – 6)	3
7	IV B.Tech II Semester	Technical Paper Writing	2
	Total Credits		20

- Professional Elective (PE) course should be selected (which is not studied) from each Professional Elective list provided in regular B.Tech program.
- Technical Paper Writing – Identify a research topic, analyze problem, carryout experiments, write a technical paper and publish. Start immediately after III-II and evaluation is done in IV-II.

Dr. G. K. Viswanadh and Dr. N. Yadaiah opined that the regulations and the syllabus should sustain for atleast 3 to 4 years and should not change every year.

The Council approved the academic regulations of B.Tech honours degree program with effect from 2021-2022 and the current III year students should register the courses for the required credits during III year II semester, IV year I semester and IV year II semester.

3.6 Approval of academic regulations of M.Tech regular degree program with effect from 2021-2022

M.Tech Academic Regulations

The two-year curriculum of any M. Tech. program of study shall have 68 credits in total.

Curricular Components

The curriculum includes various curricular components like Core Courses (PC and Dissertation), Elective Courses (PE, OE) and Mandatory non-credit audit courses.

Academic Requirements

Attendance Requirements

- Minimum of 75% of attendance in aggregate of all the courses

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- 65% and above, and below 75% - Condonation
- Below 65% - Detention due to shortage of attendance

Credit Requirements

- Shall register for all 68 credits and has to earn all the credits
- Should register for all mandatory courses mentioned in the curriculum and get minimum pass marks

Assessment Tools

Table 15: Assessment Tools for Regular Courses

Type of Course	Assessment Tools									
	CIE Marks (30% Weightage)							SEE Marks (70% Weightage)		
	CAT1		CAT2		AAT		CIE Total	SEE		SEE Total
	Theory	Practice	Theory	Practice	Theory	Practice		Theory	Practice	
Theory Course	40	-	40	-	20	-	100	100	-	100
Practical Course	-	40	-	40	-	20	100	-	100	100

Table 16: Assessment Tools for Dissertation (Phase-I/Phase-II)

Type of Course	Assessment Tools					
	CIE Marks (100% Weightage)				SEE Marks (100% Weightage)	
	Review1	Review2	Review3	Total	SEE	
Dissertation Phase – I	30	30	40	100	-	
Dissertation Phase – II	30	30	40	100	100	

Passing Standards

- Theory, Practical Courses and Dissertation Phase - II: 40% of marks in SEE and 50% of marks in the sum total of the CIE and SEE.
- Dissertation Phase - I: 50% of marks (CIE).
- Audit Courses (Non-credit): 50% of marks (SEE).

Award of Class

Table 17: CGPA for the Award of Class

Class Awarded	CGPA
First Class with Distinction	≥ 7.75
First Class	$6.75 \leq \text{CGPA} < 7.75$
Second Class	$6.00 \leq \text{CGPA} < 6.75$

- A student with final CGPA (at the end of the **PGP**) < **6.00** shall not be eligible for the Award of Degree.

The detailed academic regulations of M.Tech with effect from academic year 2021-2022, VCE-R21 is enclosed in annexure A3.6.

The Council approved the academic regulations of M.Tech with effect from the academic year 2021-2022.

- 3.7 Approval of syllabus of III and IV years (for the approved regulations of VCE R20) for UG programs.

The Council reviewed and approved the curriculum structure and syllabus of III and IV year (for the approved regulations of VCE-R20) for UG programs. The four year curriculum structure of B.Tech under VCE-R20 is enclosed in Annexure A3.7.

- 3.8 Approval of four-year curriculum structure and syllabus of I and II years for UG programs under VCE R21 regulations

The Council reviewed and approved the four-year curriculum structure and syllabus of I and II year (for the new regulations of VCE-R21) for UG programs. The four-year curriculum structure of B.Tech under VCE-R21 is enclosed in Annexure A3.8.

- 3.9 Approval of two-year curriculum structure and syllabus of M.Tech programs under VCE R21 regulations

The Council reviewed and approved the two-year curriculum structure and syllabus of M.Tech programs (for the new regulations of VCE-R21). The two-year curriculum structure of M.Tech under VCE-R21 is enclosed in Annexure A3.9.

- 3.10 Approval of new courses introduced in various B.Tech and M.Tech programs during the revision of syllabus in the AY 2020-2021 and 2021-2022

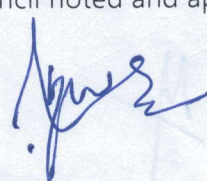

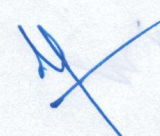
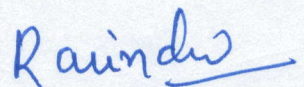
The list of new courses introduced in B.Tech and M.Tech programs during the revision of syllabus in the AY 2020-2021 and 2021-2022 is presented to the members of academic council.

The Council noted and approved the list of new courses as enclosed in annexure A3.10.

- 3.11 Approval of value-added courses and add-on courses offered during AY 2021-2022

The list of value added courses and add-on courses being offered by the departments during AY 2021-2022 is presented to the members of academic council.

The Council noted and approved the courses as enclosed in annexure A3.11.





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3.12 Approval of Internship and Externship Policy Document

The internship policy document is presented to the council. The members enquired about the process and the number of students getting the opportunity through AICTE internship portal. The Principal informed that very few students are taking the internship opportunity through AICTE portal and said that the process of registering in AICTE portal will be speeded up to fully utilize its purpose.

The Council approved the internship policy document as enclosed in Annexure A3.12

3.13 Approval of Clause for conduction of special supplementary examinations (One-Time-Chance) for not obtaining their degree in double the duration of the program

The Council approved to conduct special supplementary examinations (One-Time-Chance) for not obtaining their degree in double the duration of the program with effect from 2021-2022 for those who completed the duration. The members opined to define One-Time-Chance and be strict to its meaning.

3.14 Approval of Examination Manual containing all the details pertaining to evaluation of answer scripts, examination fee, remuneration tariff, moderation rules, challenge valuation, grace marks, internal (CIE) improvement, one-time-chance, computer-based tests (CBT) and others

(a) Approval of Examination Manual

The examination manual consists of

- Committees – Roles and responsibilities
- Pre-examination process - Course registration, Preparation of Schedule of examinations, CIE question paper setting and role of BOE, Conduction of CIE, Assessment, CIE & SEE Question paper formats, Finalization of CIE marks, Registration for Semester End Examination, Internal lab assessment, Condonation and Detention, Academic requirements. Hall ticket printing and distribution
- Examinations process – Appointment of examiners, Duties and Responsibility of Examiners, SEE Question generation, Practical/ Viva-voce Examinations, Project Work Evaluation
- Post-examination process - Pre-Evaluation process of Theory Answer scripts, Central Evaluation of Theory Answer scripts, Examination Fee and Remuneration/ Honorarium/ Allowances, Post-Evaluation Data Processing/ Tabulation, Result Finalization and Publication, Grievances in Examinations, Supplementary Examinations, Promotion Rules (Vertical Progression), Transitory Guidelines, Transfer Of Students From Other Colleges/Universities, Award Of Degree and Class,

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Termination From The Program, Withholding Of Results, Amendments to Regulations, Graduation Day, Code Of Conduct, Scope

- Examination automation system - ERP

The examination procedural and automatic manual is enclosed in the annexure A3.14. The Council appreciated the efforts put by the Controller of Examinations in preparing the examination manual. Dr. G. K. Viswanadh and Dr. N. Yadaiah opined that the examination manual may be prepared by a committee and prepare all the templates and processes pertaining to examination section.

The Council approved the examination manual, examination committees, and the tariff for examination fee and remunerations. They opined that the financial items can be get it approved in the Governing Body by preparing the balance sheet with income and expenditure. They also opined to get ratified the decisions on the malpractice grievances, condonation and detention due to shortage of attendance, and detention due to credits from the forthcoming meetings. However, in view of the COVID-19 pandemic, the JNTUH in 2020-21 had exempted all UG and PG students from mandatory attendance of aggregate 75 percent and detention due to shortage of credits. The council noted and instructed to follow the instructions of JNTUH with respect to detention due to shortage of attendance and credits, the clause of award of distinction with first class even if the students fails in a course but still maintains a CGPA of 8.0 and above.

(b) Approval of Guidelines for Evaluation of SEE Answer Scripts

The member secretary presented the process of evaluation of answer scripts as follows:

- The semester end examination answer scripts shall be evaluated by two examiners – Examiner -1 (E1) and Examiner-2 (E2). Examiner-1 is Internal Examiner and Examiner-2 is External Examiner
- The marks awarded for a course is the average of E1 and E2 if the difference in marks is less than 15% of maximum marks i.e., 12 marks for 75 marks paper and 15 marks for 100 marks paper.

$$\text{Final Marks} = \frac{E_1 + E_2}{2}; \begin{cases} E_1 \sim E_2 < 12 \text{ for 75 marks paper} \\ E_1 \sim E_2 < 15 \text{ for 100 marks paper} \end{cases}$$

- If the difference in marks obtained during E1 and E2 evaluations is greater than or equal to 12/15, then the answer script is evaluated by the Chief Examiner (E3)
- The final marks in such case is the **average of nearest two evaluations**.
- If the difference of marks are equal, then the **average of best two evaluations** is considered as final marks.

Dr. G. K. Viswanadh suggested to include the difference in marks as 15% of maximum marks.

(c) Approval of Moderation Rules and Grace Marks

Moderation Rules

Rule-1: Grafting

- This rule is applicable if the students fails in a single course.
- The maximum marks to an extent of 1% on the total obtained marks shall be added to the course in which the student has failed by deducting those marks from a course in which the student has passed with highest marks.
- In this case, the total marks obtained by the student remain same.
- This rule shall be applied for regular examinations only

Rule – 2: Subject Moderation

- This rule is applicable for the course in which the pass percentage is less than 75%
- The required number of marks to an extent of 8 marks will be added uniformly to all the students in that course without exceeding the pass percentage of 75%.
- This rule shall be applied to both regular and supplementary examinations.

Dr. G. K. Viswanadh opined that the grafting may be applied to those students appearing for more than one course in supplementary examinations.

Grace Marks

The member secretary presented the proposal of adding grace marks of maximum 8 to the backlog courses so as to obtain degree after the completion of the program.

Dr. N. Yadaiah opined that the grace marks should be 0.15% of the maximum marks of the program (4 years B.Tech regular degree program, 3 years lateral entry scheme of B.Tech program, 2 years M.Tech and MBA program).

The Council noted and approved the above moderation rules and grace marks.

3.15 Approval of Clause on Challenge Valuation with amendment to the clause on revaluation.

As the examination answer scripts are evaluated by minimum of two and maximum of three examiners, the amendment for the clause of revaluation in the existing regulations is placed in front of the Council. And the same may be included in the new regulations of R21.

The Council opined that the amendments can be done only if the clause favors the students but not when the clause tightens the existing rule.

The Council noted and approved to include challenge valuation in the new regulations VCE-R21 from AY 2021-2022 but differed in the opinion of amending it to the existing regulations.

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3.16 Approval of Question Paper Formats for CIE and SEE of UG and PG

The formats for CIE and SEE of UG and PG were presented to the Council. Dr. G. K. Viswanadh opined that the questions may or may not have sub questions depending on the complexity of the question and the time consumed to answer the question. The Council approved the question paper formats. The question paper formats are enclosed in the annexure - A3.16.

3.17 Approval of List of Re-admitted Students during AY 2019-2020 and 2020-2021

The students detained in any of the previous academic years prior to AY 2019-2020 have taken re-admission during AY 2019-2020 and 2020-2021 as per JNTUH instructions vide letter no. EB/359/2020, dated 25-08-2020. The details of the students are presented to the Council for approval. The Council approved the list and is enclosed in the annexure – A3.17.

3.18 Approval of Equivalence Committee Minutes for Identifying Substitute Subjects for Re-admitted Students

The member secretary submitted the minutes of equivalence committee meetings indicating the list of substitute subjects for readmitted students. The Council approved the list and is indicated in the annexure – A3.18.

4. Items for Ratification

4.1. Ratification of UG and PG Academic Calendars for the AY 2021-2022

The UG and PG academic calendars for the academic year 2021-2022 were presented to the Council for ratification. In all the academic calendars, a minimum of 90 instructional days per semester (inclusive of examinations) were maintained. The academic calendars are enclosed in the annexure – A4.1. The Council ratified the academic calendars for the AY 2021-2022

4.2. Ratification of special supplementary examinations (One-Time-Chance) conducted for UG and PG students for not obtaining their degree in double the duration of the program.

As per the instructions received from JNTUH, Letter No. EB/367/2020, dated 27-01-2021 special supplementary examinations (One-Time-Chance) were conducted during August 2021 (10-08-2021 to 21-08-2021) for UG and PG students whose duration exceeded double the duration of the program of study i.e., 8 years for UG (6 years for UG under lateral entry scheme) and 4 years for PG. The list of students availed this opportunity is listed in annexure – A4.2. The orders of JNTUH were implemented and placed in front of the academic council for ratification. The Council noted and ratified the implementation of JNTUH orders with respect to special supplementary (One-Time-Chance) examinations for UG and PG students.

4.3. Ratification of internal improvement examinations conducted for UG students

As per the instructions received from JNTUH, Letter No. EB/367/2020, dated 27-01-2021 internal improvement examinations were conducted for B.Tech students who passed out during and prior to 2016-2017 pass out batches. The list of students availed this opportunity is listed in annexure – A4.3.

The orders of JNTUH were implemented and placed in front of the academic council for ratification.

The Council noted and ratified the implementation of JNTUH orders with respect to internal improvement examinations.

The meeting concluded with thanks to the Chair.

R. Ramesh

Dean (Academics)

Dean (Academics)
VARDHAMAN COLLEGE OF ENGINEERING
Shamshabad, Hyderabad

Raundis

Principal

PRINCIPAL
VARDHAMAN COLLEGE OF ENGINEERING
Shamshabad, Hyderabad.



Ch. Vamshi

M. Sairaj

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Raundis




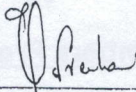
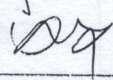
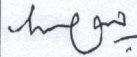
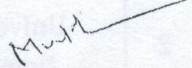
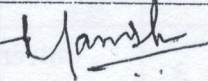
VARDHAMAN COLLEGE OF ENGINEERING (AUTONOMOUS)

Affiliated to JNTUH, Approved by AICTE, Accredited by NAAC with A++ Grade, ISO 9001:2015 Certified
Kacharam, Shamshabad, Hyderabad – 501218, Telangana, India

12th Academic Council Meeting held on 18-12-2021 at 11:00 AM

Members Present:

SNo	Category	Name	Affiliation	Signature
1	Chairman	Dr. JVR Ravindra	Principal, VCE	
2	University Nominee	Dr. G. K. Viswanadh	Professor of CE & Director of UGC-HRDC, JNTUH, Hyderabad	
3	University Nominee	Dr. N. Yadaiah	Professor of EEE, JNTUH, Hyderabad	
4	University Nominee	Dr. A. Chennakesava Reddy	Professor of ME, JNTUH, Hyderabad	
5	Member Nominated by Governing Body	Dr. Shakeel Ahmed	Joint Secretary, UGC	
6	Member Nominated by Governing Body	Dr. Anand Bhalerao	Principal and Dean at Bharati Vidyapeeth University College of Engineering, Pune	
7	Member Nominated by Governing Body	Sri. Praveen Mokkaapati	Deputy Director, NASSCOM	
8	Member Nominated by Governing Body	Dr. Pratosh Bansal	Professor of IT, IET, Devi Ahilya Vishwavidyalaya, Indore	
9	Member	Dr. M. A. Jabbar	Head, CSE & CSE (AIML), VCE	
10	Member	Dr. V. Munisekhar	Head, IT, VCE	
11	Member	Dr. G. A. E. Satish Kumar	Head, ECE, VCE	
12	Member	Sri. Md. Asif	Head, EEE, VCE	
13	Member	Dr. P. Srinivasa Rao	Head, ME, VCE	
14	Member	Dr. G. Mallikharjun Rao	Head, CE, VCE	

SNo	Category	Name	Affiliation	Signature
15	Member	Dr. D. Srinivas Reddy	Head, H&S, VCE	
16	Member	Dr. V. Srihari	Head, Management Studies, VCE	
17	Member	Dr. H. Venkateswara Reddy	Controller of Examinations, VCE	
18	Member	Dr. P. Nageswara Rao	Dean IQAC, VCE	
19	Member	Dr. Mukul Shrivastava	Dean (Outreach), VCE	
20	Member	Sri. Manish K Srivastava	Dean (Training and Placements), VCE	
21	Member Secretary	Dr. S. Rajendar	Dean (Academics), VCE	