VAAGDEVI COLLEGE OF ENGINEERING

(Autonomous)

Bollikunta, Khila Warangal (Mandal), Warangal Urban - 506 005 (T.S)

DEPARTMENT OF CIVIL ENGINEERING

MINUTES OF BOARD OF STUDIES MEETING
held on 24.03.2023 at 02:00 PM

Members Present

S.No	Name and Address	Designation	Signature
1.	Dr. G. Dineshkumar Head, Dept. of Civil Engineering, VCE, Warangal.	Chairman	
2.	Dr. K. Manjula Vani Professor , Dept. of Civil Engineering, JNTUH CEH, Hyderabad.	Member (University Nominee)	
3.	Dr. P. Rathish Kumar Professor, Dept. of Civil Engineering, NIT, Warangal.	Member (Subject Expert)	
4.	Dr. S. Sunil Pratap Reddy Associate Professor, Dept. of Civil Engineering, KITS, Warangal	Member (Subject Expert)	
5.	Er. A. Nagender Rao Superintendent Engineer, R&B Department, Hanamkonda.	Member (Representative from Industry)	
6.	Dr. K. Thirupathi Rao Vice-Principal & Professor, Dept. of Civil Engineering, VCE. Warangal.	Member (Faculty)	
7.	Mr. Syed Riyaz Assistant Professor, Dept. of Civil Engineering, VCE, Warangal.	Member (Faculty)	
8.	Er. S. Arun Kumar Assistant Executive Engineer, Mission Bhagiratha SD, Thorrur.	Member (Alumni)	

The following decisions were taken during the Board of Studies meeting,

1. Approved the Course structure and Syllabi of B. Tech – Civil Engineering for II - Year (I & II Semester) under R22 - Regulation.
2. Approved the substitute subjects and additional subjects (to obtain minimum credit of 160 as stipulated in concerned regulations) for the students who have been readmitted from R15 regulation to R18 regulation, R15 regulation to R20 regulation, R18 regulation to R20 regulation, R18 regulation to R22 regulation and R20 regulation to R22 regulation.
3. Approved the list of external faculty for the setting of End Semester Examination question papers.
4. Approved the list of external evaluators for semester end examinations.

The chairman of Board of studies thanked all the members for their Suggestions and valuable guidance towards framing of Course Structure and Syllabi under R22 Regulation.

Chairman/BoS

Board of Studies, Civil Engg. Dept.,
VAAGDEVI COLLEGE OF ENGINEERING
Bollikunta, Warangal (T.S)-506 005

VAAGDEVI COLLEGE OF ENGINEERING

(AUTONOMOUS)

B.Tech. in CIVIL ENGINEERING

COURSE STRUCTURE - (R22 Regulations) - II YEAR

Applicable from Academic Year 2022-2023 admitted batch

II YEAR I - SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1.		Probability and Statistics	3	1	0	4
2.		Building Materials, Construction and Planning	3	0	0	3
3.		Engineering Geology	3	0	0	3
4.		Strength of Materials – I	3	0	0	3
5.		Fluid Mechanics	3	0	0	3
6.		Surveying Laboratory - II	0	1	2	2
7.		Strength of Materials Laboratory	0	0	2	1
8.		Computer Aided Drafting Laboratory	0	0	2	1
9.		Logical Reasoning and Quantitative Aptitude	3	0	0	0
Total Credits			**18**	**2**	**6**	**20**

II YEAR II - SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1.		Basic Electrical and Electronics Engineering	3	0	0	3
2.		Concrete Technology	3	0	0	3
3.		Strength of Materials – II	3	0	0	3
4.		Hydraulics and Hydraulics Machinery	3	0	0	3
5.		Structural Analysis - I	3	0	0	3
6.		Fluid Mechanics and Hydraulics Machinery Laboratory	0	0	2	1
7.		Basic Electrical and Electronics Engineering Laboratory	0	0	2	1
8.		Concrete Technology Laboratory	0	0	2	1
9.		Real-time Research Project/ Field-Based Project	0	0	4	2
10.		Gender Sensitization Laboratory	0	0	2	0
Total Credits			**15**	**0**	**12**	**20**

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DEPARTMENT OF CIVIL ENGINEERING

SUBSTITUTE/ADDITIONAL SUBJECTS FOR READMITTED STUDENTS

The following substitute subjects and additional subjects will be in force for the students who have been readmitted from **R15 Regulation into R18 Regulation**.

Branch	Year & Semester	Subjects studied in R15 and repeated Subjects in R18	Substitute/Additional subjects for R18
Civil Engineering	I - I	Nil	Nil
	I - II	Nil	Nil
	II - I	Nil	Nil
	II – II	Nil	Nil
	III – I	Nil	Nil
	III – II	Human Values and Professional Ethics (II – I) (Credits – 0)	Database Management Systems/ Human Values and Professional Ethics (Open Elective-I) (Credits – 3)
		Design of RC Structures (III - I)	Design of Steel Structures
	IV – I	Entrepreneur Development (III – II) (Open Elective II)	Industrial Management / Digital Image Processing (Open Elective II)
	IV - II	Nil	Nil

The following substitute and additional subjects will be in force for the students who have been readmitted from **R15 Regulation into R20 Regulation**.

Branch	Year & Semester	Subjects studied in R15 and repeated Subjects in R20	Substitute subjects for R20
Civil Engineering	I – I	Nil	Nil
	I - II	Nil	Nil
	II - I	Nil	Nil
	II – II	Nil	Nil
	III – I	Nil	Nil
	III – II	Design of RC Structures (III - I)	Design of Steel Structures
	IV – I	Managerial Economics and Financial Analysis (III – I)	Environmental and Social Impact Assessment
	IV - II	Design of Pre stressed Concrete (IV – I)	Air Pollution and Control /Smart Cities Planning and Development

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DEPARTMENT OF CIVIL ENGINEERING

SUBSTITUTE/ADDITIONAL SUBJECTS FOR READMITTED STUDENTS

The following substitute and additional subjects will be in force for the students who have been readmitted from **R18 Regulation into R20 Regulation**.

Branch	Year & Semester	Subjects studied in R18 and repeated Subjects in R20	Substitute subjects for R20
Civil Engineering	I – I	Nil	Nil
	I - II	Nil	Nil
	II - I	Nil	Nil
	II – II	Nil	Nil
	III – I	Nil	Nil
	III – II	Remote Sensing (III – I) (Professional Elective – 2)	Foundation Engineering/System Analysis in Civil Engineering (Professional Elective – 2)
	IV – I	Managerial Economics and Financial Analysis (III – I)	Environmental and Social Impact Assessment
		Repair & Rehabilitation of Structures (III – II) (Professional Elective – 4)	Pavement Management System (Professional Elective – 4)
	IV - II	Design of Prestressed Concrete (IV – I) (Professional Elective – 6)	Air Pollution and Control /Smart Cities Planning and Development (Professional Elective – 6)

Additional Subjects:

The students those who are readmitted in II-I & II – II, they need to study any **One** of the below listed subjects in IV – II as an additional subject to obtain the minimum credit of 160.

The students those who are readmitted in III - II & IV – I, they need to study any **Two** of the below listed subjects in IV – II as an additional subject to obtain the minimum credit of 160.

1. B20CE55 – Disaster Preparedness & Planning Management
2. B20CE56 – Environmental Management
3. B20CE57 – Urban Planning

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DEPARTMENT OF CIVIL ENGINEERING

SUBSTITUTE/ADDITIONAL SUBJECTS FOR READMITTED STUDENTS

The following substitute and additional subjects will be in force for the students who have been readmitted from **R18 Regulation into R22 Regulation (I & II Year)**.

Branch	Year & Semester	Subjects studied in R18 and repeated Subjects in R22	Substitute/Additional subjects for R22
Civil Engineering	I – I	Nil	Nil
	I - II	Engineering Chemistry (I - I)	Applied Physics
		Nil	Elements of Civil Engineering
	II - I	Nil	Surveying
	II - II	BEEE (II – I)	Building Materials, Construction and Planning
		BEEE Lab(II-I)	Elements of Civil Engineering
			Computer Aided Drafting Laboratory
		Nil	Engineering Geology

The following substitute and additional subjects will be in force for the students who have been readmitted from **R20 Regulation into R22 Regulation. (I & II Year)**.

Branch	Year & Semester	Subjects studied in R20 and repeated Subjects in R22	Substitute/Additional subjects for R22
Civil Engineering	I – I	Nil	Nil
	I - II	Nil	Nil
		Nil	Elements of Civil Engineering
	II - I	Nil	Nil
	II - II	BEEE (I – II)	Building Materials, Construction and Planning

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VAAGDEVI COLLEGE OF ENGINEERING
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SURVEYING LABORATORY – II

B.Tech - II Year I – Semester

L	T	P	C
0	0	2	1

Pre-requisites: Surveying

Course Objectives:

- Student will be able to learn and understand about theodolite and total station in surveying.
- Student will learn and understand how to calculate Area of plot and ground.
- Student will learn and understand about Horizontal Angle, Vertical Angle, Horizontal distance and Vertical distance to study the ground profile using total station.

LIST OF EXPERIMENTS:

Theodolite surveying:

1. Measurement of horizontal angles and vertical angles.
2. Distance between two inaccessible points.
3. Measurement of area by theodolite traversing.
4. Determination of tachometer constants.
5. Distance between two inaccessible points using the principles of trigonometric surveying

Total Station:

6. Area Measurement
7. Stake Out
8. Remote Elevation Measurement
9. Missing Line Measurement
10. Contouring
11. Providing a Simple Circular Curve

Course Outcomes: After the completion of the course, students should be able to

CO 1: Calculate area of given plot/points using theodolite survey.
CO 2: Determine the angle/distance of given points using theodolite survey.
CO 3: Find out the area, distance and elevation of the given points using total station
CO 4: Determine the height and plot curve using Total station

REFERENCE BOOKS:

1. Dr. K.R. Arora, "Surveying Volume I and II", Standard Book House, 15th Edition, 2015.
2. R. Subramanian, "Surveying and Leveling", Oxford University Press, New Delhi, 2nd Edition, 2007.
3. B.C. Punmia & Ashok kumar Jain, "Surveying Volume I and II", Laxmi Publications, 16th Edition., 2011.

ONLINE RESOURCES:

1. http://sl-iitr.vlabs.ac.in/List%20of%20experiments.html

VAAGDEVI COLLEGE OF ENGINEERING
(Autonomous)

STRENGTH OF MATERIALS LABORATORY

B.Tech - II Year I – Semester

L	T	P	C
0	0	2	1

Pre-requisites: Nil

Course Objectives:

- To conduct the Tension test, Compression test on various materials
- To conduct the Shear test, Bending test on determinate beams
- To conduct the Compression test on spring and Hardness test using various machines
- To conduct the Torsion test, Impact test on various materials

List of Experiments:

1. Tension test
2. Bending test on Cantilever beam.
3. Bending test on simple support beam.
4. Torsion test
5. Hardness test
6. Spring test
7. Compression test on concrete.
8. Impact test
9. Shear test
10. Continuous beam – deflection test

Course Outcomes: After the completion of the course, students will be able to

CO1: Identify the bending behavior of beams using bending test.
CO2: Determine the behavior of material under torsion.
CO3: Determine the hardness of materials using different tests.
CO4: Find out the characteristic of material under compression, impact and shear test.

REFERENCE BOOKS:

1. Rajput.R.K. "Strength of Materials", S.Chand and Co, New Delhi, 4th Edition, 2018
2. Punmia.B.C., Ashok Kumar Jain and Arun Kumar Jain, SMTS – I Strength of materials, Laxmi Publications, New Delhi, 10th Edition, 2018
3. Bansal. R.K. "Strength of Materials", Laxmi Publications Pvt. Ltd., New Delhi, 6th Edition, 2018

ONLINE RESOURCES:

1. http://sm-nitk.vlabs.ac.in/List%20of%20experiments.html
2. https://eerc01-iiith.vlabs.ac.in/List%20of%20experiments.html

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COMPUTER AIDED DRAFTING LABORATORY

B.Tech - II Year I – Semester

L	T	P	C
0	0	2	1

Pre-requisites: Nil

Course Objectives:

- To be able to plan buildings as per NBC.
- To understand various types of conventional signs and brick bonds.
- To draw the plan section and elevation for doors, trusses and staircases.
- To use AutoCAD tools to draw building plans, sections and elevations from a given line diagram and specifications.

List of Experiments:

1. Planning Aspects of Building systems as per National Building Code (NBC).
2. Brick bonds: English bond & Flemish bond – Odd and Even courses.
3. Developing plan and section of dog-legged staircase.
4. Developing plan of single storied residential building.
5. Developing section and elevation of single storied residential building.
6. Developing plan of single /two storied Residential building as per Building by-laws.
7. Developing plan of public building as per building by-laws.
8. Developing section and elevation of public building.
9. Development of working drawing of building –Electrical Layout.
10. Development of working drawing of building – Plumbing Layout.

Course Outcomes: After completion of the course, the student will be able to

CO 1: Plan buildings as per NBC.
CO 2: Draw brick bonds, Plan, Section and Elevation of buildings.
CO 3: Develop residential building and public building as per the building by-laws.
CO 4: Draw Electrical layout, Plumbing layout for buildings.

REFERENCE BOOKS:

1. Engineering Graphics by P. J. Sha - S. Chand & Co
2. Civil Engineering Drawing-I by S. Mahaboob Basha – Falcon Publishers
3. Building drawing by M. G. Shah - Tata McGraw-Hill Education
4. Structural Engineering Drawing by S. Mahaboob Basha – Falcon Publishers

ONLINE RESOURCES:

1. https://www.autodesk.in/campaigns/autocad-tutorials

VAAGDEVI COLLEGE OF ENGINEERING

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FLUID MECHANICS AND HYDRAULICS MACHINERY LABORATORY

B.Tech - II Year II – Semester

L	T	P	C
0	0	2	1

Pre-requisites: Nil

Course Objectives

- To identify the behavior of analytical models introduced in lecture to the actual behavior of real fluid flows.
- To explain the standard measurement techniques of fluid mechanics and their applications.
- To illustrate the students with the components and working principles of the Hydraulic machines- different types of Turbines, Pumps, and other miscellaneous hydraulics machines.
- To analyze the laboratory measurements and to document the results in an appropriate format.

List of Experiments

1. Verification of Bernoulli's equation
2. Determination of Coefficient of discharge for a small orifice by a constant head method
3. Calibration of Venturimeter / Orifice Meter
4. Calibration of Triangular / Rectangular Notch
5. Determination of Minor losses in pipe flow
6. Determination of Friction factor of a pipe line
7. Determination of Energy loss in Hydraulic jump
8. Impact of jet on vanes
9. Performance Characteristics of Pelton wheel turbine
10. Performance Characteristics of Francis turbine
11. Performance characteristics of Keplan Turbine
12. Performance Characteristics of a single stage / multi stage Centrifugal Pump

Course Outcomes: After completion of the course, the student should be able to

CO 1: Describe the basic measurement techniques of fluid mechanics and its application.
CO 2: Demonstrate practical understanding of the minor and friction losses in pipe flows
CO 3: Discover practical working of Hydraulic machines- different types of Turbines, Pumps and other miscellaneous hydraulics machines.
CO 4: Compare results of analytical models with actual behavior of real fluid flows.

REFERENCE BOOKS:

1. D.S. Kumar, "Fluid Mechanics & Fluid Power Engineering", Kataria & Sons, 9th Edition, 2018
2. K, Subramanya, "Fluid Mechanics and Hydraulic Machines", Tata McGraw Hill Education Pvt. Ltd, 2nd Edition, 2019
3. Rajput.R.K. "Fluid Mechanics and Hydraulic Machines", S.Chand and Co, New Delhi, 6th Edition, 2016

ONLINE RESOURCES:

1. http://fm-nitk.vlabs.ac.in/List%20of%20experiments.html
2. https://eerc03-iiith.vlabs.ac.in/List%20of%20experiments.html

VAAGDEVI COLLEGE OF ENGINEERING

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CONCRETE TECHNOLOGY LABORATORY

B.Tech - II Year II – Semester

L	T	P	C
0	0	2	1

Pre-requisites: Nil

Course Objectives:

1. To know the various procedures to determine the characteristics of cement
2. To understand the test procedures to evaluate the characteristics of aggregates
3. To know the test procedures to find the properties of fresh concrete
4. To understand the test procedures to find mechanical properties of hardened concrete

List of Experiments

1. Tests on Cement:

a) Soundness.

b) Compressive strength.

2. Tests on Aggregates:

a) Water Absorption

b) Impact Test

c) Crushing Test

3. IS method of mix design of normal concrete as per IS: 10262

4. Tests on Fresh Concrete:

a) Slump cone test.

b) Compacting factor test.

c) Vee-Bee consistometer test.

5. Tests on Hardened Concrete:

a) Compressive & Split Tensile strength tests.

b) Flexural Strength Test

c) Modulus of elasticity of concrete.

d) Non-destructive testing of concrete – Rebound and Ultrasonic Pulse Velocity Test

Course Outcomes: After completion of the course, the student should be able to

CO1: Acquire knowledge on the properties of cement and aggregate

CO2: Evaluate the workability of fresh Concrete

CO3: Determine the strength characteristics of hardened concrete

CO4: Gain knowledge of Non-destructive test on concrete

REFERENCE BOOKS

1. A.M.Neville, "Properties of Concrete"– Pearson Education Limited, 5th Edition, 2012
2. M.S.Shetty, "Concrete Technology", S.Chand & Co., 8th Edition, 2019
3. A.R. Santha Kumar, "Concrete Technology", Oxford university Press, 2nd Edition,2018

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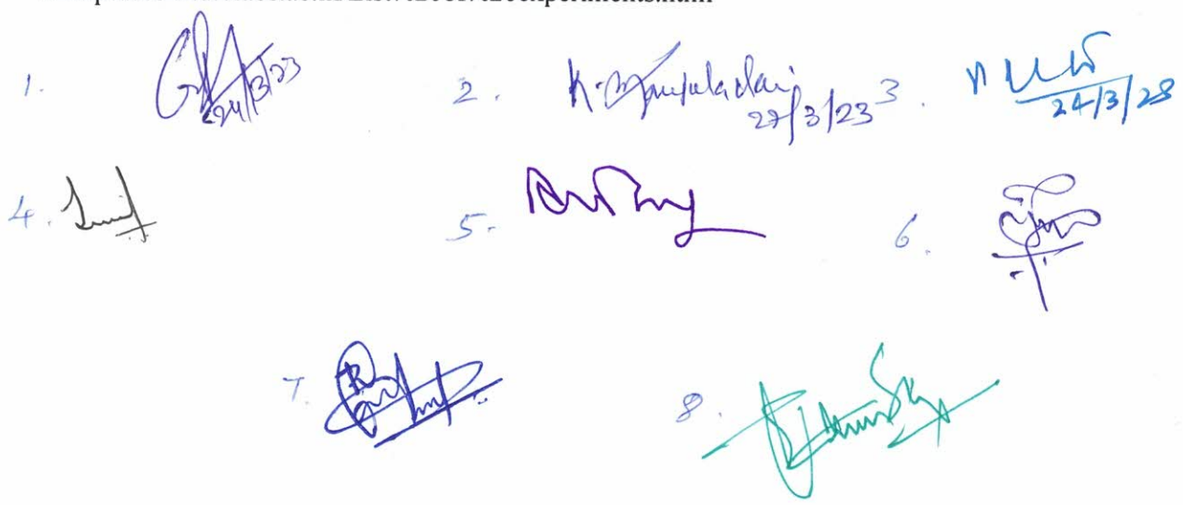
IS CODES:

1. IS: 4031 (Part-3) - Methods of Physical tests for Hydraulic Cement.
2. IS: 4031 (Part-6) - Methods of Physical tests for Hydraulic Cement.
3. IS: 383 - Specifications for Coarse and Fine aggregate from Natural Sources for Concrete.
4. IS: 2386 - Methods of Tests for Aggregates for Concrete.
5. IS: 1199 - Methods of Sampling and Analyses of Concrete.
6. IS: 516 - Methods of Tests for Strength of Concrete.
7. IS 13311 – (Part-1 & 2) Non Destructive testing of Concrete – Methods of tests.
8. IS: 456 – Plain and Reinforced Concrete – Code of Practice.
9. IS: 10262 – Concrete mix Proportioning - Guidelines

ONLINE RESOURCES

1. https://cs-iitd.vlabs.ac.in/List%20of%20experiments.html



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(Autonomous)

Bollikunta, Khila Warangal (mandal), Warangal urban-506005

DEPARTMENT OF CIVIL ENGINEERING

LIST OF EXTERNAL FACULTY FOR QUESTION PAPER SETTING

S.No	Name of the Faculty	Name of the College	Email ID	Mobile Number
1	Dr. Gunneswara Rao Td	NIT Warangal	8332969249	tdg@nitw.ac.in
2	Dr. M. Palanisamy	BITS Warangal	9443822024	mpalanisamym@gmail.com
3	Dr. N. Sudharsan	VJIT Hyderabad	9842504990	nksudharsan@gmail.com
4	Dr. D. Ravi Prasad	NIT Warangal	8332969256	drprasadravi@gmail.com
5	Dr. K. Manjula Vani	JNTU Hyderabad	9493973821	manjulavani@jntuh.ac.in
6	Dr. S. Sunil Pratap Reddy	KITS Warangal	9866963010	ssunilpratap@gmail.com
7	Dr.M. Shashi	NIT Warangal	8332969257	mshashi@nitw.ac.in
8	Dr. S Vidyavathi	JNTU Hyderabad	9392493533	vidyasom@jntuh.ac.in
9	B. Umesh	NIT Warangal	8712915568	umeshb@nitw.ac.in
10	Dr. Kameswara Rao V N	NIT Warangal	8702462114	vnkrao@nitw.ac.in
11	Dr. S. Srinivasulu	JNTU Hyderabad	9441718112	ss_lu@jntuh.ac.in
12	Dr. D. Ramasheshu	NIT Warangal	9849386595	drsheshu@nitw.ac.in
13	Dr.B. Kavitha	NIT Warangal	9944139989	kavithab@nit.ac.in
14	Dr. K.V.Jayakumar	NIT Warangal	9652901237	kvj@nitw.ac.in
15	Dr. Gorthi Kasi Viswanadh	JNTU Hyderabad	040-23158439	gkviswanadh@jntuh.ac.in
16	Mrs. P SriLakshmi	JNTU Hyderabad	040-32408664	slpaturi@jntuh.ac.in
17	Dr. N. R. Dakshina Murthy	CBIT Hyderabad	9030070355	dakshinamurthy_civil@cbit.ac.in
18	Dr. Y. Sudheer Kumar	NIT Warangal	8486367769	skyamsani@nitw.ac.in
19	Dr. G Venkata Narsimha Reddy	JNTU Hyderabad	9848170717	gvnreddy@jntuh.ac.in
20	Dr. M Padmavathi	JNTU Hyderabad	9866814305	mpadmace@jntuh.ac.in
21	Dr. Maganti Janardhana	JNTU Hyderabad	040-23158439	jmaganti@jntuh.ac.in
22	Dr. S. Shankar	NIT Warangal	8332969259	ss@nitw.ac.in
23	Dr. M. Anil	KITS Huzurabad	9985314408	anilmodin@yahoo.com
24	Dr. K.M.Lakshmana Rao	JNTU Hyderabad	040-27150250	kmlraoin@jntuh.ac.in
25	Dr.C.S.R.K. Prasad	NIT Warangal	9440347348	csrk@nitw.wc.in
26	Dr. V Venkateshwara Reddy	JNTU Hyderabad	9440095503	vvreddy1234@jntuh.ac.in
27	Dr. M. Chandrasekhar	NIT Warangal	9908135001	msc@nitw.ac.in
28	Dr. Jagadeesh Anmala	BITS pilani Hyderabad	040-66303545	jagadeesh@hyderabad.bits-pilani.ac.in
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30	Dr. Rajesh Kumar G	NIT Warangal	9849764752	rajesh@nitw.ac.in
31	Dr. B Dean Kumar	JNTU Hyderabad	040-32408664	deankumar@jntuh.ac.in
32	Dr. V. Bhikshma	OU Hyderabad	9949638885	v.bhikshma@osmania.ac.in
33	Dr. P Sravana	JNTU Hyderabad	0870-23158439	sravana.jntu@jntuh.ac.in

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Bollikunta, Khila Warangal (mandal), Warangal urban-506005

DEPARTMENT OF CIVIL ENGINEERING

LIST OF EVALUATORS

S.No	Name of the Faculty	Name of the College
1	Dr. M. Palanisamy	Balaji Insititue of Technology, Narsampet
2	Mr. P Sudheer Kumar	Balaji Insititue of Technology, Narsampet
3	Dr. N. Sudharsan	Vignyan Jyothi Institute of Technology, Hyderabad
4	Dr. S. Sunil Pratap Reddy	Kakatiya Institute of Technology and Sciences, Warangal
5	Dr. N. R. Dakshina Murthy	Chaithanya Bharathi Institute of Technology, Hyderabad
6	Dr. Y. Sudheer Kumar	National Institute of Technology, Warangal
7	Dr. M. Anil	Kamala Institute of Technology and Sciences, Huzurabad
8	Mr. D Manoj	Kamala Institute of Technology and Sciences, Huzurabad
9	Dr. Jagadeesh Anmala	BITS pilani Hyderabad
10	Dr. Mudimby Andal	Kakatiya Institute of Technology and Sciences, Warangal
11	Mr. Gulam Samdani	Jayamukhi Institute of Technology and Sciences, Narsampet
12	Mrs. Ch Shalini	Jayamukhi Institute of Technology and Sciences, Narsampet
13	Dr. G V Praveen Kumar	Sreenidhi Institute of Science and Technology
14	Mr. Jagan Prathap	Kamala Institute of Technology and Sciences, Huzurabad
15	Mr. M Sudharshan	Vidya Jyothi Institute of Technology, Hyderabad
16	Dr. C Selin Ravi Kumar	Malla Reddy Engineering College, Hyderabad
17	Dr. V V Praveen Kumar	Geethanjali College of Engineering and Technology, Hyderabad
18	Dr. M Jagadheesan	GMR Institute of Technology, Hyderabad

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