



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

Ref: BIHER/BIST/Civil//Spl/2017

Date: 17/12/2017

CIRCULAR

Many a times, the defined skill sets that are being imparted to students today with Programme Specific Objectives in educational institutions become redundant sooner than later due to rapid technological advancements. It is important for higher education institutions to supplement the curriculum to make students better prepared to meet industry demands as well as develop their own interests and aptitudes.

Hence a Value Added Course is offered by Department of Civil Engineering, Bharath Institute of Higher Education & Research. The course offered is **Geotechnical Engineering** with the duration of 30 hours (one hour per day) and commences from **10/01/2018**.

Eligibility: Course is open for UG Students of Department of Civil Engineering.

Registration:

The registration form which is available in the university website should be duly filled by the participants and to be submitted to the Coordinator at least 10 days before the commencement of course.

Contact:


Dr.R.Venkatakrishnaiah

Professor / Department of Civil Engineering,

Course Coordinator

Bharath Institute of Higher Education & Research.

Email id: venkatakrishnaiah.civil@bharathuniv.ac.in


HOD/CIVIL

Head of the Department
Department of Civil Engineering
Bharath Institute of Higher Education & Research
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Selaiyur, Chennai-600 073. INDIA

**BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH
DEPARTMENT OF CIVIL ENGINEERING**

Students Name list

Sl.NO	Reg No	Name of the students
1	U17CE002	M. VIKASH
2	U17CE003	AISHWARYA .C
3	U17CE005	KALLAM VENKATA REDDY
4	U17CE006	ROSHAN NILLING GUHA
5	U17CE007	DILIP KUMAR .G
6	U17CE008	LARRY LALNUNZIRA
7	U17CE009	PRAVEEN KUMAR .S
8	U17CE010	MATHAVAN .S
9	U17CE011	DEEPAK KUMAR .N
10	U17CE012	D.MULLAIVENDHAN
11	U17CE013	REGHAKUMAR MUTHUKUMAR
12	U17CE014	TAJAMMUL AFROZ
13	U17CE015	KESAVA RANGANATH
14	U17CE017	KISHORE .G
15	U17CE018	RUBESH .V
16	U17CE019	JAIKISHEN .S
17	U17CE021	TALASU PAVAN MANEESH
18	U17CE022	SAYATUNENI PRASANNA KUMAR
19	U17CE023	KUNDEPI PAWAN SAI GOPAL
20	U17CE024	KONJENBAM SHYAM SINGH
21	U17CE025	CHINTALAAKHIL KRISHNA
22	U17CE026	MUTHURU ASHOK KUMAR REDDY
23	U17CE027	VARIKUTTI AYAPPA
24	U17CE028	GABE TEJA SAI REDDY
25	U17CE029	CHINTALAPUDI NAGA MURALI KRISHNA
26	U17CE030	NISHANTH RAJ .K
27	U17CE031	GADAEWAR SAI PRANAY
28	U17CE032	RAGHAVAREDDY PRASANTH REDDY
29	U17CE033	CHILAKA SATHISH REDDY
30	U17CE035	JAYANT CHODHARY
31	U17CE037	SRIRAM P.A.
32	U17CE038	KOMMURU ANIL REDDY
33	U17CE039	VIKRAM KUMAR .A
34	U17CE040	SHAIK ILIYAS
35	U17CE041	MOHAMMED EHTESHYAMUDDIN
36	U17CE042	KAKARLA RAMA NAIDU
37	U17CE043	ILLURI JAYA VENKATA SIVA SAI KUMAR
38	U17CE045	PALAVELLI SASI KUMAR REDDY
39	U17CE046	MOOLA HANUMANATHA REDDY
40	U17CE047	YEMI REDDY RAGAVENDRA REDDY
41	U17CE049	MARLAPATI NAVEEN
42	U17CE050	PALAPARTHI NAGARAJU
43	U17CE051	GOLLA DINESH
44	U17CE052	PERIVEMULA CHARITHA
45	U17CE053	M. VENKATA SAI SABAREESH
46	U17CE054	CHUNCHU SRUJAN

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Value Added Course on Geotechnical Engineering

Content of Syllabus

S.No.	Syllabus Details	No. of Lecture Hours	Date
1	Introduction	1 Hour	10.01.18
2	Origin and Definition of Soils	1 Hour	
3	Classification of Soils and Challenging Situations	1 Hour	11.01.18
4	Soil constituents and Particulate Nature of the Soils	1 Hour	
5	Soil Aggregate and Phase Relations and Classification of Soils	1 Hour	12.01.18
6	Particle Size Analysis of Fine grained Soils and Sieve Analysis	1 Hour	
7	Soil-water Interaction - 1	1 Hour	18.01.18
8	Soil-water Interaction - II	1 Hour	
9	Compaction Characteristics of Soil- I	1 Hour	19.01.18
10	Compaction Characteristics of Soil- II	1 Hour	
11	Permeability of Soil and Ground Water Flow- I	1 Hour	22.01.18
12	Permeability of Soil and Ground Water Flow- II	1 Hour	
13	Coefficient of Permeability	1 Hour	23.01.18
14	Seepage Theory	1 Hour	
15	Applications of Seepage Theory	1 Hour	24.01.18
16	Flow Net in the Earthen Dam -I	1 Hour	
17	Flow Net in the Earthen Dam -II	1 Hour	25.01.18
18	Stresses in the Soil Mass due to External Loadings- I	1 Hour	
19	Stresses in the Soil Mass due to External Loadings- II	1 Hour	29.01.18
20	Stresses in the Soil Mass due to External Loadings- III	1 Hour	
21	Compression Characteristics of Soils- I	1 Hour	30.01.18
22	Compression Characteristics of Soils- II	1 Hour	
23	Compression Characteristics of Soils- III	1 Hour	31.01.18
24	Consolidation of soils	1 Hour	
25	One Dimensional Consolidation Theory of soils	1 Hour	01.02.18
26	Consolidation Characteristics of soils	1 Hour	
27	Shear Strength of Soil	1 Hour	02.02.18
28	Determination of Shear Properties of Soil	1 Hour	
29	Stability of Slopes	1 Hour	05.02.18
30	Preventive Measures for failure of Slopes	1 Hour	

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Topic: Geotechnical Engineering

Type of Course: value added course / UG

Department of school of Civil and infrastructure Engineering

Pre-Requisites: Engineering Geology

Course Duration: 30 hours (10 Jan' 18)

Intended Audience: Civil Engineering Students

Industries Applicable To: All companies that deal with the Civil infrastructure development

Coordinators: Dr. R. Venkata krishnaiah & S. Rajesh

Objective:

- a) Developed competence in the principles of soil mechanics and application in engineering practice.
- b) Ability to list the relevant engineering properties of soils and their characteristics and describe the factors which control these properties.
- c) Apply laboratory methods of determining the properties of soils.
- d) Ability to identify common situations when the soil becomes a factor in an engineering or environmental problem.
- e) Ability to apply basic analytical procedures to obtain the engineering quantity desired and understand their limitations.

COURSE OUTLINE:

Geotechnical engineering, also known as geotechnics, is the branch of civil engineering concerned with the engineering behavior of earth materials. It uses the principles and methods of soil mechanics and rock mechanics for the solution of engineering problems and the design of engineering works. It also relies on knowledge of geology, hydrology, geophysics, and other related sciences.

Geotechnical engineering is important in civil engineering, but also has applications in military, mining, petroleum, coastal, ocean, and other engineering disciplines that are concerned with construction occurring on the surface or within the ground, both onshore and offshore. The fields of geotechnical engineering and engineering geology are closely related, and have large areas of overlap. However, while geotechnical engineering is a specialty of civil engineering, engineering geology is a specialty of geology: they share the same principles of soil mechanics and rock mechanics, but may differ in terms of objects, scale of application, and approaches.

The tasks of a geotechnical engineer comprise the investigation of subsurface conditions and materials; the determination of the relevant physical, mechanical, and chemical properties of these materials; the design of earthworks and retaining structures (including dams, embankments, sanitary landfills, deposits of hazardous waste), tunnels, and structure foundations; the monitoring of site conditions, earthwork, and foundation construction; the evaluation of the stability of natural slopes and man-made soil deposits; the assessment of the risks posed by site conditions; and the prediction, prevention, and mitigation of damage caused by natural hazards (such as avalanches, mud flows, landslides, rockslides, sinkholes, and volcanic eruptions)



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NAAC
 NATIONAL ASSESSMENT AND
 ACCREDITATION COUNCIL



ABET

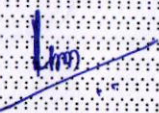
**BHARATH INSTITUTE OF SCIENCE AND
 TECHNOLOGY**

CERTIFICATE OF PARTICIPATION

This is to Certify that SIRIAM P A, Bharath Institute of Higher Education and Research, has participated in value added course on 'Geotechnical engineering', presented by Dr. Venkata Krishnaiah. R, Professor, School of Civil & Infrastructure Engineering, BIHER, Organized by School of Civil & Infrastructure Engineering, Bharath Institute of Science & Technology, BIHER on 10th Jan 2018.


 Coordinator


 Co-Coordinator


 HOD, Civil Engineering

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SCHOOL OF INFRASTRUCTURE ENGINEERING

VALUE ADDED COURSE -GEOTECHNICAL ENGINEERING

Date: 10.01.2018

Year/Sem: II /IV



Online Feedback

Value added course on Geotechnical engineering

Sl.NO	Email Address	Name	Reg number	Institute	Designation *	Phone Number	Rating for the session (1 to 5)	Feedback *
1	vikashmathi2012@gmail.com	M. VIKASH	U17CE002	Bharath Institute of higher education and research	Student	9942841465	5	It's great to learn new staffs. thank you
2	ebaish18@gmail.com	AISHWARYA .C	U17CE003	Bharath Institute of higher education and research	Student	9841549522	5	Good
3	venk4147@gmail.com	KALLAM VENKATA REDDY	U17CE005	Bharath Institute of higher education and research	Student	9052918828	4	Very good
4	rosannilling@gmail.com	ROSHAN NILLING GUHA	U17CE006	Bharath Institute of higher education and research	Student	9174828427	5	nice presentation almost covered all topics related to
5	Dilipramya1406@Gmail.com	DILIP KUMAR .G	U17CE007	Bharath Institute of higher education and research	Student	9382112361	3	The software that is available in a variety
6	larryziras@gmail.com	LARRY LALNUNZIRA	U17CE008	Bharath Institute of higher education and research	Student	8729947993	4	Good session
7	praveenvictory505@gmail.com	PRAVEEN KUMAR .S	U17CE009	Bharath Institute of higher education and research	Student	9884444190	4	good
8	maddyaustin316@gmail.com	MATHAVAN .S	U17CE010	Bharath Institute of higher education and research	Student	8754464893	5	Very informative video
9	littledeepak46@gmail.com	DEEPAK KUMAR .N	U17CE011	Bharath Institute of higher education and research	Student	9585504266	5	It was well efficient to know in detail.
10	mullaivendhan949@gmail.com	D.MULLAIVENDHAN	U17CE012	Bharath Institute of higher education and research	Student	9894321511	4	The session was very good
11	kumarraghav333@gmail.com	REGHAKUMAR MUTHUKUMAR	U17CE013	Bharath Institute of higher education and research	Student	9665708936	4	Good
12	tajammulafroz@gmail.com	TAJAMMUL AFROZ	U17CE014	Bharath Institute of higher education and research	Student	9931855153	4	Nice
13	keshavkhan1999@gmail.com	KESAVA RANGANATH	U17CE015	Bharath Institute of higher education and research	Student	9710429549	1	Very good
14	Kishorgkv30@gmail.com	KISHORE .G	U17CE017	Bharath Institute of higher education and research	Student	8940442197	4	Good
15	rubeshragul17@gmail.com	RUBESH .V	U17CE018	Bharath Institute of higher education and research	Student	9841808017	5	Excellent
16	jaikishen91@gmail.com	JAIKISHEN .S	U17CE019	Bharath Institute of higher education and research	Student	9840542829	4	Well organised session

Online Feedback

Value added course on Geotechnical engineering

Sl.NO	Email Address	Name	Reg number	Institute	Designation *	Phone Number	Rating for the session (1 to 5)	Feedback *
17	pavanmaneesh.talasu@gmail.com	TALASU PAVAN MANEESH	U17CE021	Bharath Institute of higher education and research	Student	9885147485	1	The session was pretty good, and I've gotta listened clearly.
18	sayapaneni69@gmail.com	SAYATUNENI PRASANNA KU	U17CE022	Bharath Institute of higher education and research	Student	7285997033	4	Very good
19	kpsgopal2000@gmail.com	KUNDEPI PAWAN SAI GOPAL	U17CE023	Bharath Institute of higher education and research	Student	9841043943	5	Excellent webinar that i have never seen.
20	kshyam2791@gmail.com	KONJENGBAM SHYAM SING	U17CE024	Bharath Institute of higher education and research	Student	9841043943	3	Good explanation
21	chintalabrothers11@gmail.com	CHINTALAAKHIL KRISHNA	U17CE025	Bharath Institute of higher education and research	Student	9966640115	5	good
22	ashokreddy8264@gmail.com	MUTHURU ASHOK KUMAR R	U17CE026	Bharath Institute of higher education and research	Student	9848224716	5	good
23	manirockzz371@gmail.com	VARIKUTTI AYAPPA	U17CE027	Bharath Institute of higher education and research	Student	9182348297	5	Very much informative session.
24	gadetejasaireddy@gmail.com	GABE TEJA SAI REDDY	U17CE028	Bharath Institute of higher education and research	Student	9182270182	5	Good
25	chinthalapudimuralikrishna5@gmail.com	CHINTALAPUDI NAGA MUR	U17CE029	Bharath Institute of higher education and research	Student	9553664841	3	Over all session was use full and filled with contents
26	nishanthvijay62@gmail.com	NISHANTH RAJ .K	U17CE030	Bharath Institute of higher education and research	Student	9382107732	5	Good
27	saipranay4181@gmail.com	GADAEWAR SAI PRANAY	U17CE031	Bharath Institute of higher education and research	Student	9963967474	5	Good
28	rp7842197222@gmail.com	RAGHAVAREDDY PRASANT	U17CE032	Bharath Institute of higher education and research	Student	9581187506	4	It was very helpful
29	chilakasathish664@gmail.com	CHILAKA SATHISH REDDY	U17CE033	Bharath Institute of higher education and research	Student	9492657904	4	Good
30	choudharyjayant689@gmail.com	JAYANT CHODHARY	U17CE035	Bharath Institute of higher education and research	Student	7999935872	5	Good
31	sriramchennai2@gmail.com	SRIRAM P.A.	U17CE037	Bharath Institute of higher education and research	Student	9952181664	4	Good
32	kommuruani11998@gmail.com	KOMMURU ANIL REDDY	U17CE038	Bharath Institute of higher education and research	Student	9010913489	5	Very informative and useful

Online Feedback

Value added course on Geotechnical engineering

Sl.NO	Email Address	Name	Reg number	Institute	Designation *	Phone Number	Rating for the session (1 to 5)	Feedback *
33	crvikramkumar99@gmail.com	VIKRAM KUMAR .A	U17CE039	Bharath Institute of higher education and research	Student	9842143489	5	Good
34	iliyasuddin26@gmail.com	SHAIK ILIYAS	U17CE040	Bharath Institute of higher education and research	Student	9502544813	4	Good
35	ehteshyamudfin@gmail.com	MOHAMMED EHTESHYAMU	U17CE041	Bharath Institute of higher education and research	Student	9700555345	3	Good
36	ramlaxmankakarla173137@gmail.com	KAKARLA RAMA NAIDU	U17CE042	Bharath Institute of higher education and research	Student	7287033416	5	Very good
37	saikumarilluri222@gmail.com	ILLURI JAYA VENKATA SIVA	U17CE043	Bharath Institute of higher education and research	Student	9963445449	5	Good
38	sasikumarreddy14@gmail.com	PALAVELLI SASI KUMAR REDDY	U17CE045	Bharath Institute of higher education and research	Student	7893842066	5	Very good
39	hhanumanthareddy2000@gmail.com	MOOLA HANUMANTHA REDDY	U17CE046	Bharath Institute of higher education and research	Student	9182197104	5	nice presentation almost covered all topics related to
40	reddy590@gmail.com	YEMI REDDY RAGAVENDRA	U17CE047	Bharath Institute of higher education and research	Student	7330851493	5	Very good
41	naveenlovely991@gmail.com	MARLAPATI NAVEEN	U17CE049	Bharath Institute of higher education and research	Student	8639650606	4	Very good
42	nagrajpalaparthi1999@gmail.com	PALAPARTHI NAGARAJU	U17CE050	Bharath Institute of higher education and research	Student	7658979772	4	Good
43	dineshdinnu745@gmail.com	GOLLA DINESH	U17CE051	Bharath Institute of higher education and research	Student	7989208217	4	Good
44	charithaperivemula@gmail.com	PERIVEMULA CHARITHA	U17CE052	Bharath Institute of higher education and research	Student	9848477202	5	Good
45	saisabareesh098@gmail.com	M. VENKATA SAI SABAREESH	U17CE053	Bharath Institute of higher education and research	Student	9949971343	5	Good
46	srujanvarma999@gmail.com	CHUNCHU SRUJAN	U17CE054	Bharath Institute of higher education and research	Student	9121645008	5	Good

Lmm
HOD / (civil)

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