

## LABORATORY FACILITIES :



**Digital UTM (100 T)**



**Closed Loop Fracture Tesselup**



**Digital CTM (500 T)**



**Flexure Testing Machine**



**Concrete Permeability Test Apparatus**



**Consolidometer Apparatus**

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Civil Engineering Department  
School of Studies of Engineering & Technology  
Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur  
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## Testing & Consultancy Brochure Department of Civil Engineering



**Guru Ghasidas Vishwavidyalaya**  
(A Central University)  
Bilaspur, C.G. 495009



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School of Studies of Engineering & Technology  
Guru Ghasidas Vishwavidyalaya  
(A Central University)  
Bilaspur (C.G.)-495009

## DEPARTMENT PROFILE:

Civil Engineering Department of Guru Ghasidas Vishwavidyalaya (GGV), a Central University in Bilaspur (C.G), was started in the year 2008. The department presently offers UG (B.Tech. Civil Engg.), PG (M.Tech. Structural Engineering) and Phd (in various topics of Civil Engg) under the School of Studies of Engineering & Technology.

Besides education and research the main objective is to contribute largely to nation building and also to make great strides technologically, Nationally & in the International arena.

The department has developed state-of-the-art Infrastructure in various laboratories such as Material Testing, Soil Mechanics, Transportation Engineering, Environmental Engineering and Fluid Mechanics laboratories, to impart world class Education, Research, Testing & Consultancy.

Well qualified faculty members with diverse specializations of Civil engineering, i.e. Structural Engineering, Earthquake Engineering, Transportation Engineering, Geotechnical Engineering, Environmental Engineering, Water Resources and Irrigation Engineering, Construction Management etc.

The department extended the consultancy services for the University (Internal) is also extending the Testing/ Consultancy services like analysis & design of structures, vetting/proof checking of structural designs and drawings, etc. to the external agencies/builders/contractors etc. g the consultancy services for testing of various construction materials for buildings, bridges, roads, soil testing, water quality testing, etc. through the well-equipped laboratories and expertise.

**SERVICES BEING OFFERED BY THE DEPARTMENT:****TESTING & CONSULTANCY****UNDER TESTING WORKS:****(i) Cement Testing**

1	Specific Gravity
2	Fineness
3	Soundness (Le-Chatelier Method)
4	Consistency
5	Setting Time (Initial & Final)
6	Compressive Strength

**(ii) Solid Concrete Block Testing (Set of 3)**

1	Dimensions
2	Water Absorption
3	Density
4	Compressive Strength
5	Compressive Strength-Paver Blocks
6	Moisture Movement

**(iii) Coarse & Fine Aggregates**

1	Specific gravity
2	Water absorption
3	Density
4	Sieve/Gradation
5	Moisture Content of Fine /Coarse aggregates
6	Bulking of Sand
7	Impact value
8	10% fine value (3 samples)

**(iv) Mix Design**

1	Casting, Curing & Testing of 18 Nos Cubes at 07days (03 Nos).
2	Casting, Curing & Testing of 30 Nos Cubes at 28days
3	Workability Test of Mix (Slump/Compaction)

**(v) Testing for Reinforcement (Steel)**

1	UTS *
2	% Elongation
3	Yield Stresses
4	w/m run *

**(vi) Test on concrete**

1	Compressive strength
2	Non-Destructive Test

**(vii) Ceramic Unglazed Vitreous Tiles (set of 3)**

1	Squareness
2	Warpage
3	Water absorption
4	Compressive Strength
5	Flexural strength
6	Resistance of Acid

SERVICES BEING OFFERED BY THE DEPARTMENT:	
TESTING & CONSULTANCY	
UNDER TESTING WORKS:	
(viii) Tests on SOIL	
1	Particle size distribution analysis (i) Mechanical /IS Sieve Analysis. (ii) Hydrometer analysis
2	Atterberg's limits: (i) Liquid Limit, (ii) Plastic Limit (iii) Shrinkage Limit
3	Moisture Content
4	Density Index
5	Bulk unit weight
6	Compaction Tests: Standard Proctor Test, Modified Proctor Test
8	Plate Load Test
9	Standard Penetration Test
(ix) Tests on Road Materials	
1	Flakiness Index
2	Elongation Index
3	Crushing Value
4	Abrasion Value
5	CBR Test at specified moisture content & dry density
Tests on Bitumen	
6	Penetration Test (3 samples)
7	Ductility test (3 samples)
8	Softening test (3 samples)
9	Viscosity test (3 samples)
10	Binder Extraction Test (3 samples)
11	Stripping value Test (3 samples)
12	Flash & Fire point Test (3 samples)
13	Bitumen Mix Design
(x) Tests on Water Characteristics	
1	pH Value
2	Turbidity
3	TS / TDS / SS / VS
4	Hardness of water
5	Colour test
6	Nitrate
7	Sulphate
8	Chloride
9	DO
10	BOD
11	COD
(xi) Surveying	
1	Land Surveying
2	Estimation of Quantities
3	Contouring
4	Levelling etc
UNDER CONSULTANCY SERVICES :-	
1	Proof checking of various structural designs.
2	Quality assessment of structures
3	Damage detection, Site visits, Technical feasibility re- ports and remedies of structures.

FACULTY EXPERTISE OF THE DEPARTMENT:	
The Faculty members of the Department are having experience and also expertise in different fields of civil engineering such as Structural Engineering, Geotechnical Engineering, Surveying, Transportation Engineering, Water Resources & Environmental Engineering. All the faculty are conversant with the field problems of civil engineering.	
OUR EXPERT FACULTY MEMBERS	
1	Dr. Shailendra Kumar
2	Dr. A.K. Parashar
3	Dr. M. Chakradhara Rao
4	Dr. R. K. Choubey
5	Dr. V .V.S. Surya Kumar Dadi
6	Dr. Kundan Meshram
7	Mr. Nikhil Kumar Verma
8	Ms. Ayushi Nayak
9	Mr. Prakhar Modi
10	Ms. Preeti Singh
11	Mr. Rochak Pandey
12	Mrs. Sonal Banchhor
13	Mr. Vinod Kumar
MODE OF PAYMENT & CONTACT DETAILS:	
For the Testing/Consultancy work, payment should be made in Challan/Demand Draft/RTGS/NEFT in favor of the "Registrar, Consultancy Services, I.T., GGV, Bilaspur" payable at Bank of India at GGV, Koni Bilaspur branch and copy of receipt of the same will be submitted to the Department of Civil Engineering, School of Studies (E & T), Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur. (C.G.)	
BANK ACCOUNT DETAILS: -	
Account No: 947410110001063 Name of the Bank: Bank of India Branch Code: 009474 IFSC Code: BKID0009474 Name of the Branch: Guru Ghasidas Vishwavidyalaya, Bank of India, Koni, Bilaspur (C.G.)-495009	
The Testing/ Consultancy charges shall be deposited / processed as above in accordance with the university norms.	
CONTACT DETAILS:-	
All correspondence shall be made through Head of Department Civil Engineering Department (School of Studies of Engineering & Technology) Guru Ghasidas Vishwavidyalaya (A Central University), Koni, Bilaspur (C.G.)-495009 Ph: +91-9425502572 Email: <a href="mailto:hodcivilengg@ggu.ac.in">hodcivilengg@ggu.ac.in</a> , Website: <a href="http://www.ggu.ac.in">www.ggu.ac.in</a>	