

Department of Civil Engineering



Annual Report
2017-18

SWAMI VIVEKANANDA INSTITUTE OF SCIENCE &
TEHCNOLOGY, SONARPUR

PREAMBLE

The Department of *Civil Engineering* of **Swami Vivekananda Institute of Science & Technology, Sonarpur** has started its glorious journey in the year 2014. The newly built department has the exposure in focusing the students' need in imparting excellence and need based technical education for building up prospective career of the students.

The department has the mission to build up the students' need with beautiful ambience, highly qualified faculty, a modern high-tech laboratory, well stocked books on Civil Engineering subjects in the library.

On this year remarkable interest in higher studies, attending the conferences and seminars, paper publications etc. have been observed among the faculty members.

One day Seminar on introduction of "**STAAD Pro**" by **Bentley System** and one day invited lecture on "**Civil Engineering and its applications**" have become a grand success with active participation of faculty, students, staff and members of college.

Action has been initiated for commissioning of Environment Engineering Laboratory and CAD Laboratory.

Availability of faculty in context to related subjects is always scarce; however, one new faculty has already joined and further action has already been initiated to recruit faculties as needed.

In modernization programme, two new laboratories have been developed consisting of instruments, like Total Station, to conduct Survey Practical Training to the students Soil Mechanics Laboratory and Geology Laboratory. Department also acquired modern.

On this year, a noticeable improvement in students' attendance is observed. Many students of 2nd year and 3rd year have achieved more than 90% attendance. Students' performance in semester examinations is also on the higher side.

Expecting better achievements during the ensuing years to come.

Institution Name: Swami Vivekananda Institute of Science & Technology, Sonarpur

1.0 NAME OF THE DEPARTMENT : CIVIL ENGINEERING

2.0 YEAR OF STARTING OF THE PROGRAMME: 2014

3.0 AICTE APPROVAL DETAILS OF THE DEPARTMENT:

(a) Date of first approval by AICTE with reference number

(for 60 seats)

- Ref.date ...

(b) Date of approval by AICTE for current academic year with reference number

- Ref. dated ...

(c) Approval by West Bengal University of Technology for the current academic year with reference number

- Ref. ... dated ...

4.0 PROGRAMME DETAILS: *B-Tech In Civil Engineering*

(a) *Nature of Programme:* *Full time*

(b) *Duration:* *4 years*

(c) *Sanction Intake:* *60*

(d) *Year wise students:*

B. Tech (2017-18)	1 st Year	2 nd Year	3 rd Year	4 th Year
No of students	22	71	72	68

Lateral entry – 10% in 3rd Semester

5.0 COURSE STRUCTURE:
(As per Affiliating University):

List of Subjects

Sl. No.	Subject Code	Subject
Third Semester:		
1	HU301	Values & Ethics in Profession
2	PH301	Physics - 2
3	CH301	Basic Environmental Engineering & Elementary Biology
4	CE301	Solid Mechanics
5	CE302	Surveying
6	CE303	Building Material & Construction
7	PH391	Physics - 2
8	CE391	Solid Mechanics
9	CE392	Surveying Practice I
10	CE393	Building Design & Drawing
Fourth Semester:		
11	M(CS)401	Numerical Methods
12	M402	Mathematics - 3
13	CE401	Fluid Mechanics
14	CE402	Structural Analysis
15	CE403	Soil Mechanics
16	HU481	Technical Report Writing & Language Lab Practice

17	M(CS)491	Numerical Methods
18	CE491	Fluid Mechanics
19	CE492	Surveying Practice -II
20	CE493	Soil Mechanics Lab - I
Fifth Semester:		
21	HU501	Economics for Engineers
22	CE501	Foundation Engineering
23	CE502	Design of RC Structures
24	CE503	Concrete Technology
25	CE504	Engineering Geology
26	CE591	Soil Mechanics Lab – II
27	CE592	Concrete Laboratory
28	CE593	Quantity Surveying, Specifications and Valuation
29	CE594	Engineering Geology Laboratory
Sixth Semester		
30	HU601	Principles of Management
31	CE601	Highway & Transportation Engineering
32	CE602	Design of Steel Structure
33	CE603	Construction Planning and Management
34	CE604	Professional Elective – I
35	CE605	Free Elective – I
36	CE691	Highway & Transportation Engg Lab
37	CE692	Detailing of RC and Steel Structures
38	CE693	CAD Laboratory
39	CE681	Seminar
Seventh Semester		
40	CE701	Environmental Engineering
41	CE702	Water Resource Engineering
42	CE703	Professional Elective II
43	CE704	Professional Elective III
44	CE705	Free Elective II
45	HU781	Group Discussion
46	CE791	Environmental Engg Lab
47	CE792	Civil Engineering Practice Sessional

48	CE793	Free Elective Laboratory
49	CE782	Industrial Training
50	CE783	Project Part I
Eighth Semester		
51	HU801A/ HU801B	Organizational Behavior / Project Management
52	CE801	Professional Elective IV
53	CE802	Professional Elective V
54	CE891	Structural Engineering Design Practice
55	CE881	Project Part II
56	CE882	Grand – Viva

6.0 COURSE STRUCTURE:**List of Subjects****Third Semester:**

Theory		Contacts periods per week				Credit Point	Marks					
Code	Subject	L	T	P	Total		UT1 /UT 2	Assignment	Attendance	Total Internal	Total External	TOTAL
HU301	Values & Ethics in Profession	3	0	0	3	3	15	10	5	30	70	100
PH301	Physics - 2	3	1	0	4	4	15	10	5	30	70	100
CH301	Basic Environmental Engineering & Elementary Biology	(2 + 1)	0	0	3	3	15	10	5	30	70	100
CE301	Solid Mechanics	3	0	0	3	3	15	10	5	30	70	100
CE302	Surveying	3	1	0	4	4	15	10	5	30	70	100
CE303	Building Material & Construction	3	1	0	4	4	15	10	5	30	70	100
Total Theory					21	21						
Practical		Contacts periods per week				Credit Point	Marks					
Code	Subject	L	T	P	Total		Total Internal			Total External	TOTAL	
PH391	Physics - 2	0	0	3	3	2	40			60	100	

CE391	Solid Mechanics	0	0	3	3	2	40	60	100
CE392	Surveying Practice I	0	0	3	3	2	40	60	100
CE393	Building Design & Drawing	0	0	3	3	2	40	60	100
Total Practical					12	8			
Total Semester					33	29			

List of Subjects

Fourth Semester:

Theory		Contacts hours per week				Credit Point	Marks					
Code	Subject	L	T	P	Total		UT1 /UT 2	Assignment	Attendance	Total Internal	Total External	TOTAL
M(CS) 401	Numerical Methods	2	1	0	3	2	15	10	5	30	70	100
M 402	Mathematics – 3	3	1	0	4	4	15	10	5	30	70	100
CE 401	Fluid Mechanics	3	0	0	3	3	15	10	5	30	70	100
CE 402	Structural Analysis	3	1	0	4	4	15	10	5	30	70	100
CE 403	Soil Mechanics	3	1	0	4	4	15	10	5	30	70	100
Total Theory					18	17						
Practical		Contacts hours per week				Credit Point	Marks					
Code	Subject	L	T	P	Total				Total Internal	Total External	TOTAL	
HU 481	Technical Report Writing & Language Lab Practice	0	0	3	3	2			40	60	100	
M (CS) 491	Numerical Methods	0	0	2	2	1			40	60	100	
CE 491	Fluid Mechanics	0	0	3	3	2			40	60	100	
CE 492	Surveying Practice II	0	0	3	3	2			40	60	100	

CE 493	Soil Mechanics Lab I	0	0	3	3	2					
Total Practical					14	9					
Total Semester					32	26					

List of Subjects

Fifth Semester:

Theory		Contacts hours per week				Credit Point	Marks					
Code	Subject	L	T	P	Total		UT1 / UT2	Assignment	Attendance	Total Internal	Total External	TOTAL
HU 501	Economics for Engineers	3	0	0	3	3	15	10	5	30	70	100
CE 501	Foundation Engineering	3	1	0	4	4	15	10	5	30	70	100
CE 502	Design of RC Structures	3	1	0	4	4	15	10	5	30	70	100
CE 503	Concrete Technology	3	0	0	3	3	15	10	5	30	70	100
CE 504	Engineering Geology	3	0	0	3	3	15	10	5	30	70	100
Total Theory					17	17						
Practical		Contacts hours per week				Credit Point	Total Internal		Total External		TOTAL	
	Subject	L	T	P	Total							
CE 591	Soil Mechanics Lab -II	0	0	3	3	2	40		60		100	
CE 592	Concrete Laboratory	0	0	3	3	2	40		60		100	
CE 593	Quantity Surveying, Specifications and Valuation	0	0	3	3	2	40		60		100	
CE 594	Engineering Geology Laboratory	0	0	3	3	2	40		60		100	
Total Practical					12	8						
Total Semester					29	25						

List of Subjects

Sixth Semester:

Theory	Contacts hours per week	Credit Point	Marks
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Code	Subject	L	T	P	Total	UT1 / UT2	Assignment	Attendance	Total Internal	Total External	TOTAL	
HU-601	Principle of Management	2	0	0	2	2	15	10	5	30	70	100
CE 601	Highway & Transportation Engineering	3	0	0	3	3	15	10	5	30	70	100
CE 602	Design of Steel Structure	3	0	0	3	3	15	10	5	30	70	100
CE 603	Construction Planning and Management	3	0	0	3	3	15	10	5	30	70	100
CE 604	Professional Elective – I	3	0	0	3	3	15	10	5	30	70	100
	a. Bridge Engineering											
	b. Prestressed Concrete											
	c. Structural Dynamics and Earthquake Engineering											
CE605	Free Elective - I	3	0	0	3	3	15	10	5	30	70	100
	a. Operation Research (M)											
	b. Human Resource Management (HSS)											
	c. Materials Handling (ME)											
Total Theory					17	17						
Practical		Contacts hours per week				Credit Point	Marks					
Code	Subject	L	T	P	Total		Total Internal	Total External	TOTAL			
CE691	Highway & Transportation Engineering Lab	0	0	3	3	2	40	60	100			
CE692	Detailing of RC and Steel Structures	0	0	3	3	2	40	60	100			
CE693	CAD Laboratory	0	0	3	3	2	40	60	100			
CE681	Seminar	0	0	3	3	2	40	60	100			
Total Practical					12	8						
Total Semester					29	25						

List of Subjects

Seventh Semester:

Theory	Contacts hours per week	Credit Point	NONE Marks
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Code	Subject	L	T	P	Total		UT1 / UT2	Assi gnm ent	Attendance	Total Internal	Total External	TOTAL
CE-701	Environmental Engineering	3	0	0	3	3	15	10	5	30	70	100
CE-702	Water Resource Engineering	3	0	0	3	3	15	10	5	30	70	100
CE-703	Professional Elective-II	3	0	0	3	3	15	10	5	30	70	100
	a. Advanced Foundation Engineering											
	b. Soil stabilization and Ground Improvement Techniques											
	c. Advanced Highway and Transportation engineering											
CE-704	Professional Elective-III	3	0	0	3	3	15	10	5	30	70	100
	a. Advanced Structural Analysis											
	b. Hydraulic Structures											
CE-705	Free Elective-II	3	0	0	3	3	15	10	5	30	70	100
	a. Engineering Materials											
	b. Electrical and Electronic Measurement											
Total Theory					15	15						
Practical		Contacts hours per week			Credit Point	Marks						
Cod e	Subject	L	T	P	Total		Total Internal		Total External		TOTAL	
HU 781	Group Discussion	0	0	3	3	2	40		60		100	
CE 791	Environmental Engineering Lab	0	0	3	3	2	40		60		100	
CE 792	Civil Engineering Practice Sessional	0	0	3	3	2	40		60		100	
CE 793	Free Elective Laboratory	0	0	3	3	2	40		60		100	
	a. Material Testing Lab											
	b. Electrical and Electronic Measurement Laboratory											
CE 782	Industrial Training	n / a	n / a	n / a	n/a	2					100	
CE7 95	Project part-I	0	0	0	6	2	40		60		100	
Total Practical					18	12	NONE					
Total Semester					33	27	NONE					

List of Subjects

Eighth Semester:

Theory		Contacts hours per week				Credit Point	Marks					
Code	Subject	L	T	P	Total		UT 1/UT 2	Assignment	Attendance	Total Internal	Total External	TOTAL
HU-801A/ HU 801B	Organizational Behaviour / Project Management	2	0	0	2	2	15	10	5	30	70	100
CE-801	Professional Elective-IV	3	0	0	3	3	15	10	5	30	70	100
	A. Environmental Pollution and Control											
	B. Water Resource Management and Planning											
	C. Remote Sensing and GIS											
CE803	Professional Elective-V	3	0	0	3	3	15	10	5	30	70	100
	A. Finite Element Method											
	B. Dynamics of Soils & Foundations											
	C. Design of Tall Buildings											
	D. Pavement Design											
Total Theory					8	8						
Practical		Contacts hours per week				Credit Point	Marks					
Code	Subject	L	T	P	Total		Total Internal		Total External		TOTAL	
CE-881	Structural Engineering Design Practice	0	0	6	6	4	40		60		100	
CE-882	Project Part-II	0	0	12	12	6	40		60		100	
CE-883	Grand viva	0	0	0	0	3	40		60		100	
Total Practical					18	13	NON E		NON E			
Total Semester					26	21	NON E		NON E			

FACULTY PROFILE

	Name	Qualification	Date of Birth	Designation	Date of joining
1	Saptarshi Nandi	B.Tech, M.E	19/10/1983	Assistant Professor & HOD	09/08/2016
2	Samik Banerjee	B.Tech, M.Tech	01/03/1990	Assistant Professor	
3	Priyajeet Mondal	B.Tech, M.Tech	18/06/1991	Assistant Professor	
4	Shiladitya Mandal	B. Tech, M.E,	19/06/1991	Assistant Professor	
5	Saptarshi Bhunia	B. Tech, M.E,		Assistant Professor	
6	Anubhab Das	B. Tech, M.Tech	06/10/1992	Assistant Professor	
7	Asim Mazumder	B. Tech, M.Tech	04/08/1993	Assistant Professor	04/08/2017
8	Pranab Chakraborty	B. Tech, M.Tech		Assistant Professor	
9	Dr. Anindita Kundu	B.Sc, M.Sc, Ph.D	30/03/1990	Assistant Professor	19/07/2017
10	Chandra Skekher Bowmik	B. Tech, M.Tech	31/03/1957	Assistant Professor	

7.0 TECHNICAL STAFFS:

1. Miss Moumita Ghosh
2. Miss Payel Dutta

8.0 DELEGATION OF RESPONSIBILITY:

Institutional:

- Academic Council – Saptarshi Nandi (member)
- Examination Cell – Dr. Anindita Kundu, Saptarshi Nandi(member)
- Routine Committee – Samik Banerjee (Member)
- Disciplinary Committee – Saptarshi Nandi (member)
- Anti-ragging Committee – Saptarshi Nandi
- Sports committee: Moumita Ghosh(member)

Departmental:

- Research and Development –Asim Mazumder, Dr. Anindita Kundu
- University Affairs – Saptarshi Nandi
- Students' Mentorship – Moumita Ghosh, Payel Dutta, Dr. Anindita Kundu
- Departmental Library – Payel Dutta

9.0 STUDENTS ACTIVITY

- Two Students of Civil Engineering Department participated in Sports and music competition.

10.0 SPACE ALLOCATION

A) Laboratories

1. Soil Mechanics Laboratory - Room No. C104, 667.8 ft²
2. Solid Mechanics Laboratory - Room No. C104, 667.8 ft²
3. Concrete Laboratory - Room No. C109, 663.4 ft²
4. Engineering Geology Laboratory - Room No. C103, 756 ft²
5. Highway & Transportation Engineering Laboratory- Room No. C103, 756 ft²
6. Survey Laboratory - Room No. C103, 756 ft²
7. Drawing Laboratory - Room No. C108, 708 ft²

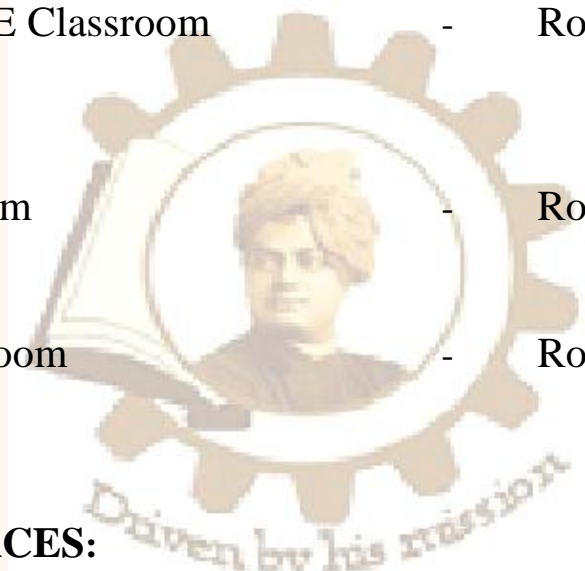
8. CAD Laboratory -
9. Environmental Engineering Laboratory -
10. Fluid Mechanics Laboratory -

B) Classrooms

1. 2nd year CE Classroom - Room No C102,
667.8 ft²
2. 3rd year CE Classroom - Room No C105,
667.8 ft²
3. 4th year CE Classroom - Room No C106,
667.8 ft²

C) Others

1. HOD Room - Room No C101,
264 ft²
2. Faculty Room - Room No C101,
264 ft²



RESOURCES:

10.1 DEPARTMENTAL LIBRARY:

Books available – 30 nos.

10.2 LABORATORY:

SOLID MECHANICS ROOM NO. C104 (GROUND FLOOR)	1. Tension test on structural materials: mild steel and tor steel (HYSD Bar)
	2. Compression test on structural materials: Timber, bricks and Concrete cubes
	3. Bending test on mild steel.
	4. Torsion test on mild steel circular bar.
	5. Hardness test on ferrous and non-ferrous metals: Brinell and Rockwell test.
	6. Test on Closely coiled helical spring.
	7. Impact test: Izod and Charpy
	8. Demonstration of fatigue test.

SURVEYING PRACTICE - I ROOM NO. C104 (GROUND FLOOR)	1.Chain surveying
	2.Compass surveying
	3.Plain table surveying
	4.Levelling
	5.Contouring
BUILDING DESIGN AND DRAWING. ROOM NO. C108 (GROUND FLOOR)	1FOUNDATIONS for walls and columns along with raft & pile
	2. Glazed and paneled doors & windows of standard sizes as wells special windows & ventilators
	3. Details reinforcement for RCC staircase with its plan, design and elevation of different types of staircases
	4. Types of sloping roof, lean-to roofs, RCC roof with details of reinforcements, King post and Queen post trusses
	5. different types of building showing various components like lift, well and their sizes by using plan, elevation and section.
FLUID MECHANICS	1.Determination of orifice co-efficient
	2.Calibration of orifice meter
	3.Calibration of V-Notch
	4.Measurement of velocity of water in an open channel using a pitot tube
	5.Measurement of water surface profile for flow over board crested weir
	6.Preparation of discharge rating curve for a sluice
	7.Measurement of water surface profile for a hydraulic jump
	8.Determination of efficiency of a centrifugal pump
	9.Determination of efficiency of a reciprocating pump
	10. Determination of efficiency of a pelton wheel turbine
	11. Determination of efficiency of a francis turbine
	12. Determination of efficiency of a hydraulic ram
SURVEYING PRACTICE - II ROOM NO. C103 (GROUND FLOOR)	1. traversing using Theodolite
	2. traversing by using total stations
	3. Use total Station for levelling and Contouring
	4.Setting out simple curves.
SOIL MECHANICS LAB - I ROOM NO. C104 (GROUND FLOOR)	1. Identify the different types of soil by collecting field samples as per Indian Standards along with determination of natural moisture content.
	2.Determination of specific gravity of Cohesionless and cohesive soil.
	3. Determination of insitu density by core cutter method & sand replacement method
	4.Grain-size distribution of cohesionless soil by sieving & fine - grained soil by hydrometer analysis.
	5. Determination of Atterberg's limits (Liquid Limit, Plastic Limit and shrinkage Limit
	6. Determination of co- efficient of permeability by constant head parameter (coarse grained soil) & variable head parameter (fine grained soil).

	7. Determination of compaction characteristics of soil.
SOIL MECHANICS LAB -II ROOM NO. C104 (GROUND FLOOR)	1.Determination of characteristics of soil by Oedometer test
	2. Determination of unconfined compressive strength of soil.
	3. Determination of shear parameter of soil by direct shear test.
	4. Determination of undrained shear strength of soil by Vane shear test
	5. Determination of shear parameter of soil by triaxial test.
	6. standard penetration test.
CONCRETE LABORATORY ROOM NO. C109 (GROUND FLOOR)	1.Determination of specific gravity of cement.
	2. Determination of fineness of cement.
	3. Determination of soundness of cement.
	4. Determination of normal consistency of cement.
	5. Determination of setting time of cement.
	6. Determination of compressive strength of cement
	7. Determination of specific gravity of fine aggregates.
	8. Determination of bulking of fine aggregates
	9. Determination of sieve analysis of fine aggregates
	10. Determination of fineness modulus of fine aggregates
	11. Determination of bulk density of fine aggregates
	12. Determination of moisture content of fine aggregates
	13. Determination of specific gravity of coarse aggregates
	14. Determination of sieve analysis of coarse aggregates
	15. Determination of fineness modulus of coarse aggregates
	16. Determination of bulk density of coarse aggregates
	17. workability of fresh concrete by slump
	18. workability of fresh concrete by Vee-Bee
	19. workability of fresh concrete by Compacting Factor.
	20. compressive strength on Cubes
	21. split tensile strength
	22. Static modulus of elasticity of hardened concrete by Flexure tests
	23. Rebound hammer test
	24. Ultrasonic Pulse velocity test
	25.Mix design of concrete.
QUANTITY SURVEYING, SPECIFICATIONS & VALUATION LAB ROOM NO. C105 (GROUND FLOOR)	1. Identify quantity surveying by types and approximation of estimates, items of work & unit of measurement, unit rate of payment
	2. quantity estimate of a single storied building.
	3. Bar bending schedule
	4. measurement and calculation of quantities with cost, bill, abstract of quantities
	5.estimate of quantities of road, Underground reservoir, Surface drain, Septic tank.
	6.Analysis of rates of Earthwork, brick flat soling, DPC, PCC and RCC, brick work, plastering, flooring and finishing

	7. specification of materials of brick, cement, fine and coarse aggregates
	8. specification of works of plain cement concrete, reinforced cement concrete, first class brickwork, cement plastering, pointing, white washing, colour washing, distempering, lime punning, painting and varnishing.
	9. values and cost, gross income, outgoing, net income, scrap value, salvage value, market value, book value, sinking fund, capitalised value, Y. P., depreciation, obsolescence, deferred income, freehold and leasehold property, mortgage, rent fixation, valuation table.
ENGINEERING GEOLOGY LAB ROOM NO. C103 (GROUND FLOOR)	1. Identify the crystal systems with the help of crystal models
	2. Interpret of Rocks and Minerals by hand specimens
	3. Experiment with microscopic study of rocks and minerals
	4. Analyse of Geological maps by interpreting geological structures as well as figure out the thickness problems, bore-hole problems
HIGHWAY & TRANSPORTATION ENGINEERING LAB ROOM NO. C103 (GROUND FLOOR)	1. Determination of Impact value of aggregates
	2. Determination of Los-Angeles Abrasion value of aggregates.
	3. Determination of water absorption of aggregates.
	4. Determination of Elongation & Flakiness Index of aggregates
	5. Determination of Specific gravity of Bitumen & bituminous materials
	6. Determination of penetration value of Bitumen & bituminous materials
	7. Determination of softening point of Bitumen & bituminous materials
	8. Determination of loss on heating of bituminous materials
	9. Determination of Flash & Fire point test of Bitumen & bituminous materials
	10. Determination of Stripping value test of Bitumen & bituminous materials
	11. design of B.C. & S.D.B.C mix
	12. CBR Test
	13. Marshal Stability Test
	14. Benkelman beam Test
DETAILING OF RC & STEEL STRUCTURES ROOM NO. C108 (GROUND FLOOR)	1. design principle of R.C.C. sections. Limit state method of design Loads and stresses to be considered in the design as per I.S. code provision
	2. design & detailing of a simply supported R.C.C Beam
	3. design & detailing of a Continuous T- Beam
	4. design & detailing of a isolated footing
	5. design & detailing of a combined footing
	6. design & detailing of a simply supported one-way slab
	7. design & detailing of a simply supported One-way Continuous slab
	8. design of Slab
	9. design of beam
	10. design of column
	11. design of roofing
	12. design of staircase

	13. design of floor plan of a multistoried frame building
	14. design of two way floor slab
	15. problems on general consideration and basic concepts
	16. Design & drawing of Members of the roof truss
	17. Design & drawing of Joints of the roof truss members
	18. Design & drawing of Purlins
	19. Design & drawing of Gable bracings
	20. Design & drawing of Column with bracings
	21. Design & drawing of Column base plate
	22. Design & drawing of Column foundations
CAD LABORATORY	1.Introduction and important features of a software dealing with analysis and design of structures.
	2. analysis and design of a multistoried building using software
	3. Preparation of detailed drawings of different structural elements including ductility detailing.
	4.Design of RCC Slab, beam, column and footing
ENVIRONMENTAL ENGINEERING LAB	1. Determination of turbidity for a given sample of water
	2. Determination of color for a given sample of water
	3. Determination of solids in a given sample of water: Total Solids, Suspended Solids and Dissolved Solids
	4. Determination of pH for a given sample of water
	5. Determination of concentration of Chlorides in a given sample of water
	6. Determination of carbonate, bi-carbonate and hydroxide alkalinity for a given sample of water
	7. Determination of hardness for a given sample of water
	8. Determination of concentration of Fluorides in a given sample of water
	9. Determination of concentration of Iron in a given sample of water
	10. Determination of the Optimum Alum Dose for a given sample of water through Jar Test
	11. Determination of the Residual Chlorine in a given sample of water
	12. Determination of the Chlorine Demand for a given sample of water
	13. Determination of the Available Chlorine Percentage in a given sample of bleaching powder
	14. Determination of amount of Dissolved Oxygen (DO) in a given sample of water
	15. Determination of the Biochemical Oxygen Demand (BOD) for a given sample of wastewater
	16. Determination of the Chemical Oxygen Demand (COD) for a given sample of wastewater
	17. Determination of bacteriological quality of water: presumptive test, confirmative test and Determination of MPN

STRUCTURAL ENGINEERING DESIGN PRACTICE ROOM NO. C106 (GROUND FLOOR)	1. Design of Beams curved in plan,
	2.Design of Domes
	3.Design of Circular and Intze Tanks
	4. Design of Rectangular Tanks
	5. Design of Underground Tanks
	6.Design of Reinforced concrete pipes,
	7. Design of Bunkers and Silos, Chimneys
	8.Design of Box Culverts, Concrete Bridges
	9. Design of Web, Design of flanges, Intermediate Vertical Stiffners, Horizontal Stiffners, Bearing Stiffners, Horizontal Stiffners of Plate gliders.
	10. Design of Roof and Side Coverings, Design Loads, Purlins, Members, End Bearings, Industrial Building Frames, Framing, Bracing, Crane Girders and Columns of Roof truses.
	11.Design of Steel Bridges

11.0 FACULTY PARTICIPATIONS:

(a) Participation in parents department

- i) External sponsored projects
- ii) Consultancy
- iii) Continuing education
- iv) Collaboration (industrial/institutional)
- v) Students Projects
- vi) Students Guidance (M.Tech/PhD)
- vii) Invited lectures (National/International)
- viii) Professional Society Activities
- ix) Conferences/seminars/winter/summer schools
- x) Research Publications
- xi) Text Books/Monographs published
- xii) Patents/ Awards received
- xiii) Any financial Assistance for projects

√
√
√
√
√

12.0 FDP/ QIP/ SEMINAR/INVITED TALK ORGANIZED

12.1 One Day long Invited lecture on “*Civil Engineering and Its Applications*” on 4th August, 2017 organized by this department sponsored by SVIST.

Invited Speakers:

Mr. P.K. Acharya, Commissioner of Railway Safety Department.

12.2 One Day Seminar on introduction of “STAAD Pro” 22nd August, 2017 by.

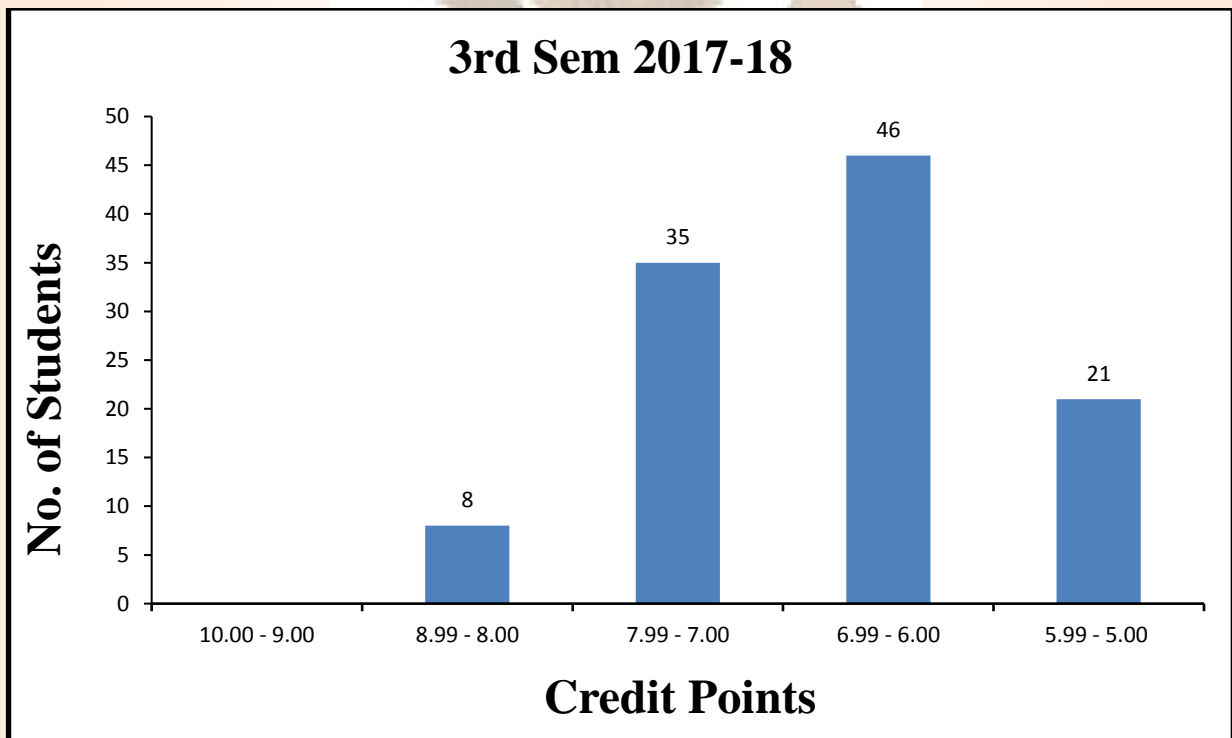
Invited Speakers:

Bentley System

13.0 STUDENTS RESULTS:

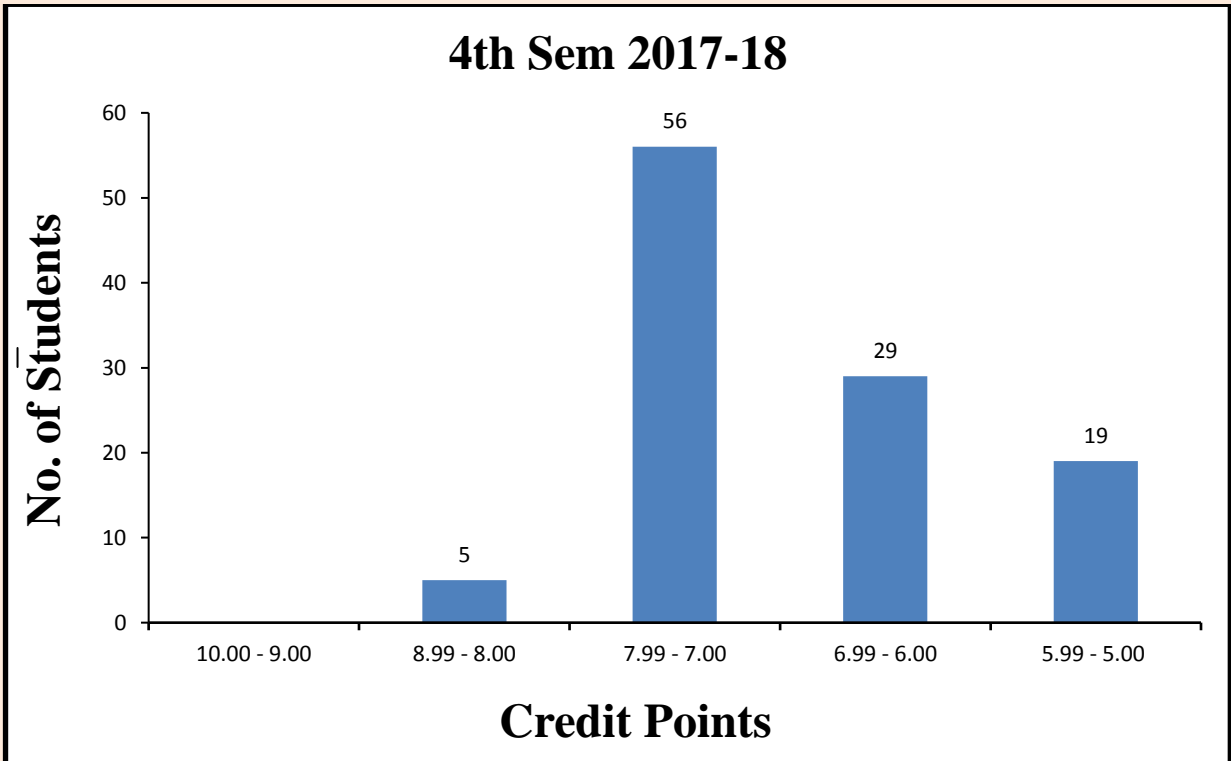
3rd SEMESTER

	10.00 – 9.00	8.99 – 8.00	7.99 – 7.00	6.99 – 6.00	5.99 – 5.00
2017-18	0	8	35	46	21



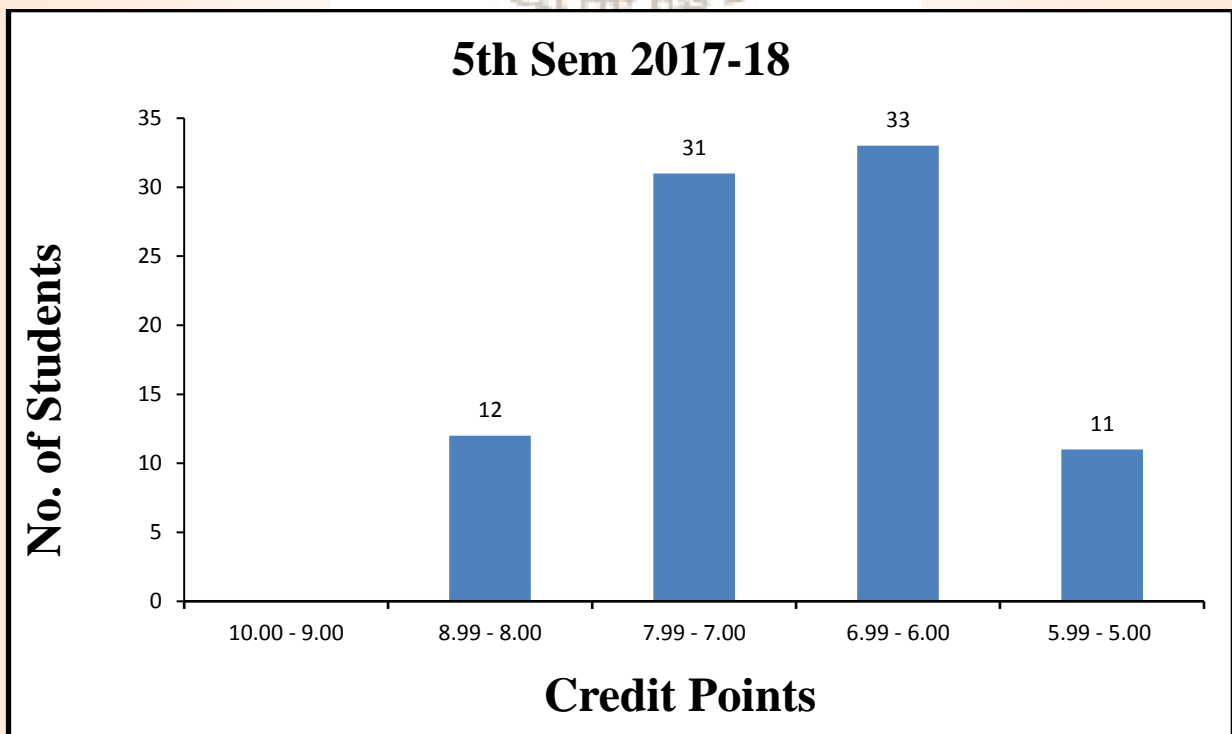
4th SEMESTER

	10.00 – 9.00	8.99 – 8.00	7.99 – 7.00	6.99 – 6.00	5.99 – 5.00
2017-18	0	5	56	29	19



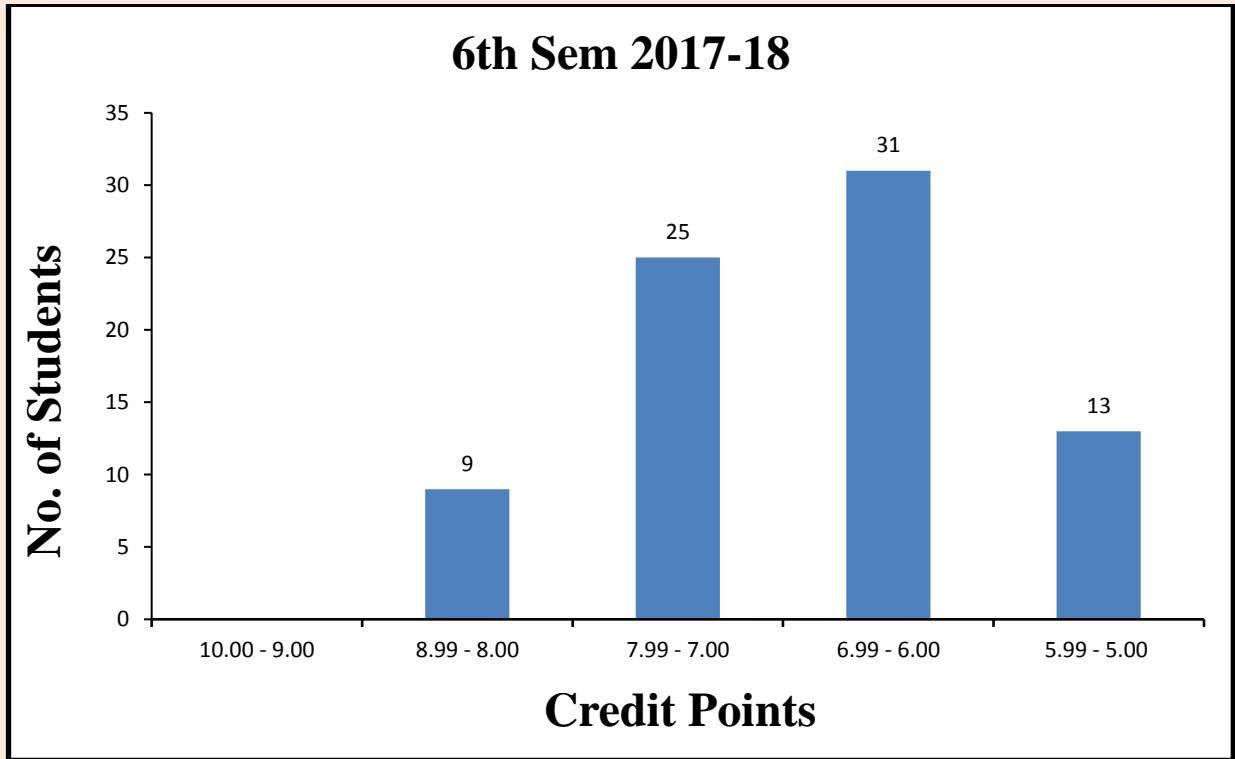
5th SEMESTER

	10.00 – 9.00	8.99 – 8.00	7.99 – 7.00	6.99 – 6.00	5.99 – 5.00
2017-18	0	12	31	33	11



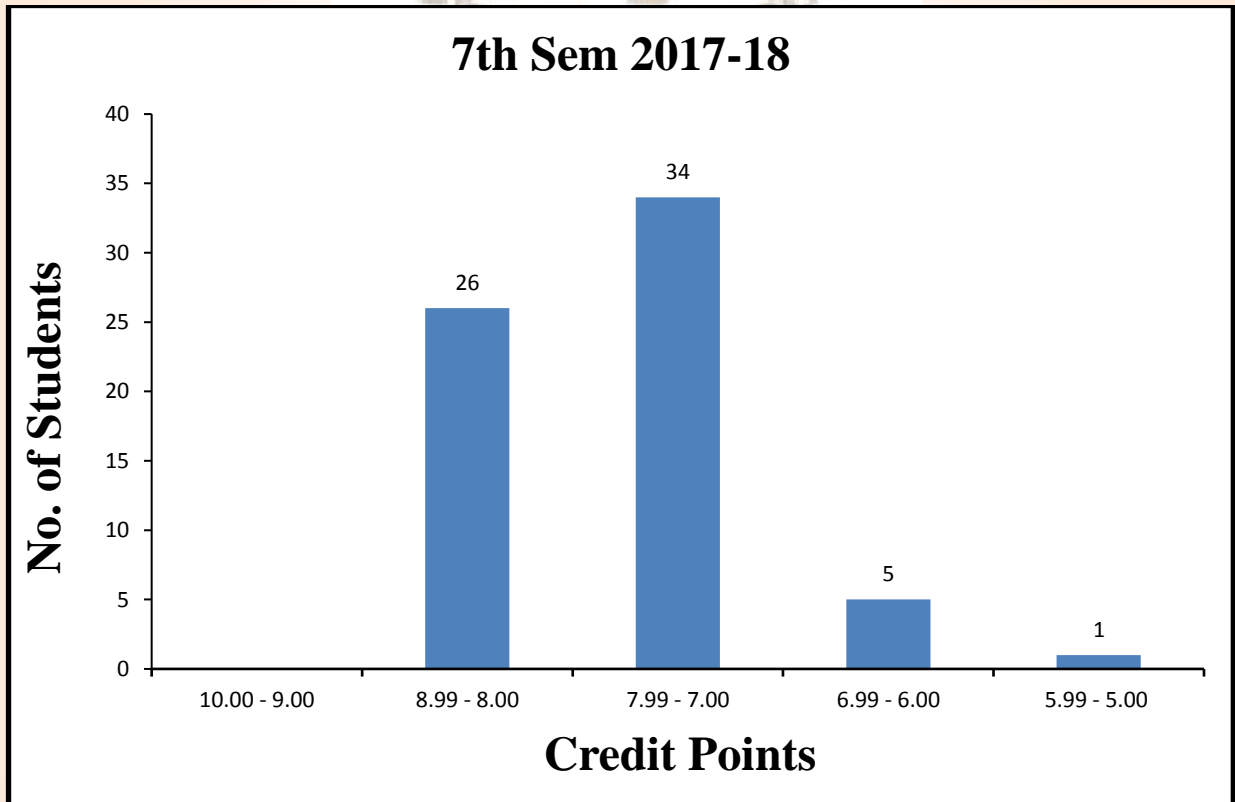
6th SEMESTER

	10.00 – 9.00	8.99 – 8.00	7.99 – 7.00	6.99 – 6.00	5.99 – 5.00
2017-18	0	9	25	31	13



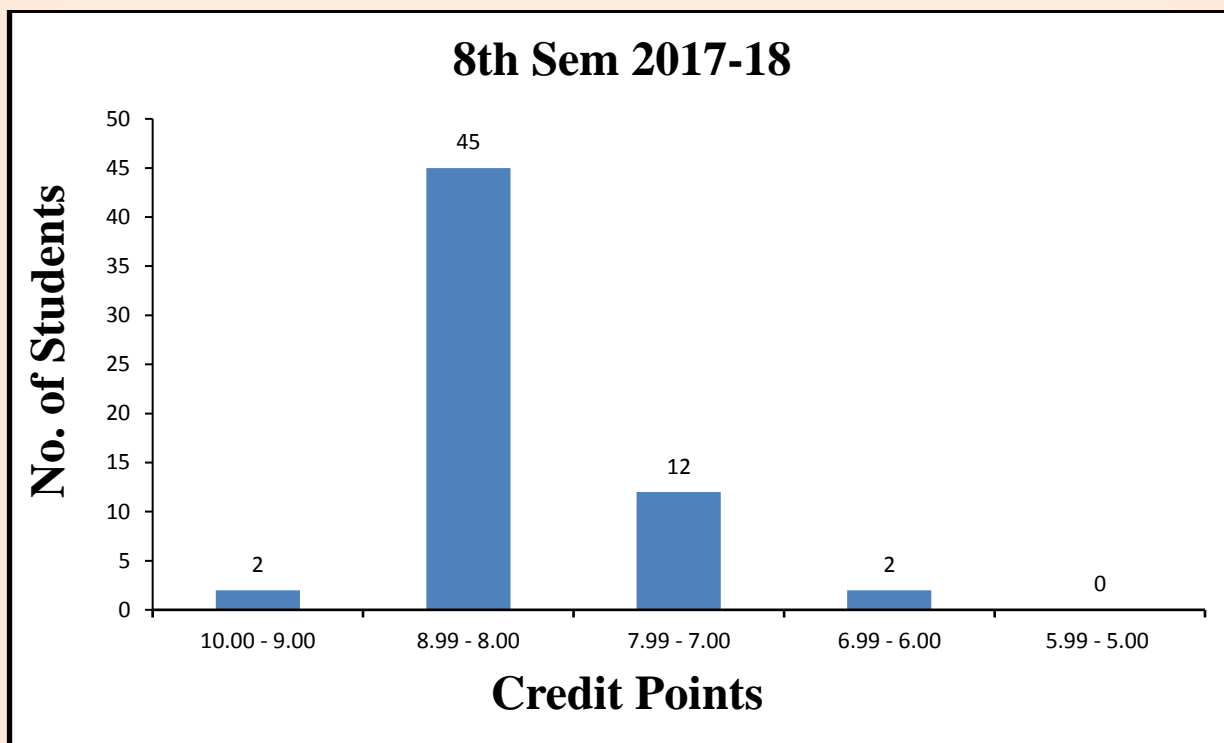
7th SEMESTER

	10.00 – 9.00	8.99 – 8.00	7.99 – 7.00	6.99 – 6.00	5.99 – 5.00
2017-18	0	26	34	5	1



8th SEMESTER

	10.00 – 9.00	8.99 – 8.00	7.99 – 7.00	6.99 – 6.00	5.99 – 5.00
2017-18	2	45	12	2	0

**14.0 INDUSTRIAL TRAINING:**

Civil Engineering department co-ordinates industrial Training for every student as this is compulsory according to university course curriculum.

Sl. No	Name of Students	Roll No	Training Period/duration	Name of Company
1.	1. Alqama Saleh Ahmed	24101314002	15 Days	Public Works Department, Govt. of W.B
	2. Ankush Das	24101314004	22 Days	
	3. Asif Ahamed Sardar	24101314005	1 Month	
	4. Souvik Mahata	24101314023	18 Days	
	5. Subhadip Pramanik	24101314024	18 Days	
	6. Syed Shabbir Ali Hussain	24101314029	15 Days	
	7. Alarka Pal	24101314036	1 Month	
	8. Dibyendu Paul	24101314037	1 Month	
	9. Krishnendu Mondal	24101314038	1 Month	
	10. Saddam Hossain	24101315069	21 Days	
2.	1. Ankush Das	24101314004	15 Days	Central Public Works Department, Govt. of India
	2. Asif Ahamed Sardar	24101314005	2 Weeks	
	3. Debajyoti Haldar	24101314007	22 Days	
	4. Debsurya Adhikary	24101314008	15 Days	
	5. Masud Reja Ali Mistry	24101314011	15 Days	
	6. Mrityunjoy Sarkar	24101314012	15 Days	

	7. Pankaj Roy 8. Sarthak Naskar 9. Sourav Ghosh 10. Souvik Mahata 11. Subhadip Pramanik 12. Subham Mondal 13. Sudip Sahoo 14. Supriya Pradhan 15. Piya Shree Dutta 16. Riya Mazumdar 17. Asmita Mandal 18. Debabrata Sarkar 19. Koushik Mandal	24101314014 24101314016 24101314021 24101314023 24101314024 24101314025 24101314026 24101314028 24101314039 24101314040 24101315054 24101315057 24101315061	15 Days 2 Weeks 15 Days 15 Days 15 Days 2 Weeks 15 Days 15 Days & 18 Days 15 Days 15 Days 22 Days 22 Days 22 Days	
3.	Kasturi Das	24101315060	15 Days	Irrigation & Waterways Deptt., Govt Of Wb
4.	Suman Shekhar	24101314027	30 Days	Heavy Engineering Corporation , Ranchi
5.	Sarthak Naskar	24101314016	30 Days	Simplex Infrastructure Limited
6.	Souvik Mahata	24101314023	30 Days	Delhi Transport Corporation
7.	1. Aniruddha Mondal 2. Sourav Das 3. Avijit Roy 4. Tanmoy Roy 5. Santanu Bhakta	24101314003 24101314020 24101314020 24101315083 24101315070		

15.0 STUDENT'S MENTORSHIP:

Name of Faculty	Students Roll No.	Frequency of interactions	Remarks
Mr. Saptarshi Nandi	24101317043 to 24101317045 (2 nd Year)	Once in a week	1. Collected their certificates and testimonials 2. Problems and doubts regarding the different classes and others college

	24101316027 to 24101316037 (3 rd Year)		activities had been discussed and necessary action had taken.
	24101315001 to 24101315011 (4 th Year)		3. Encourage them to attain the regular classes and submit the assignment within schedule time. 4. Encourage them to take participation in different cultural programme, quiz and debate competition.
Mr. Samik Banerjee	24101317046 to 24101317048 (2 nd Year)	Once in a week	1. Collected their certificates and testimonials 2. Problems and doubts regarding the different classes and others college activities had been discussed and necessary action had taken. 3. Encourage them to attain the regular classes and submit the assignment within schedule time. 4. Encourage them to take participation in different cultural programme, quiz and debate competition.
	24101316038 to 24101316048 (3 rd Year)		
	24101315012 to 24101315022 (4 th Year)		
Mr. Asim Mazumder	24101317049 to 24101317051 (2 nd Year)	Once in a week	1. Collected their certificates and testimonials 2. Problems and doubts regarding the different classes and others college activities had been discussed and necessary action had taken. 3. Encourage them to attain the regular classes and submit the assignment within schedule time. 4. Encourage them to take participation in different cultural programme, quiz and debate competition.
	24101316049 to 24101316059 (3 rd Year)		
	24101315023 to 24101315034 (4 th Year)		
Mr. Anubhab Das	24101317052 to 24101317054 (2 nd Year)	Once in a week	1. Collected their certificates and testimonials 2. Problems and doubts regarding the different classes and others college activities had been discussed and necessary action had taken. 3. Encourage them to attain the regular classes and submit the assignment within schedule time. 4. Encourage them to take participation in different cultural programme, quiz and debate competition.
	24101316060 to 24101317010 (3 rd Year)		
	24101315035 to 24101315046 (4 th Year)		
Dr. Anindita Kundu	24101317055 to 24101317057	Once in a week	1. Collected their certificates and testimonials 2. Problems and doubts regarding the

	(2 nd Year)		different classes and others college activities had been discussed and necessary action had taken. 3. Encourage them to attain the regular classes and submit the assignment within schedule time. 4. Encourage them to take participation in different cultural programme, quiz and debate competition.
	24101317011 to 24101317021 (3 rd Year)		
	24101315047 to 24101316006 (4 th Year)		
Miss Moumita Ghosh	24101317058 to 24101317061 (2 nd Year)	Once in a week	1. Collected their certificates and testimonials 2. Problems and doubts regarding the different classes and others college activities had been discussed and necessary action had taken. 3. Encourage them to attain the regular classes and submit the assignment within schedule time. 4. Encourage them to take participation in different cultural programme, quiz and debate competition.
	24101317022 to 24101317032 (3 rd Year)		
	24101316007 to 24101316016 (4 th Year)		
Miss Payel Dutta	24101317062 to 24101317065 (2 nd Year)	Once in a week	1. Collected their certificates and testimonials 2. Problems and doubts regarding the different classes and others college activities had been discussed and necessary action had taken. 3. Encourage them to attain the regular classes and submit the assignment within schedule time. 4. Encourage them to take participation in different cultural programme, quiz and debate competition.
	24101317033 to 24101317066 (3 rd Year)		
	24101316017 to 24101316026 (4 th Year)		

16.0 DEPARTMENTAL BUDGET:

Swami Vivekananda Institute of Science & Technology		
Sonarpur, Kolkata-700145		
Budget and Allocation Statement		
Dept of Civil Engineering		Rs. In Lacs
2017-2018		
Accounts Head	Budgeted Amount.	Allocation Amount.
Capital Equipment	2.00	2.00

Library Books	1.00	1.00
Research & Development	1.00	1.00
Furniture & Fixture	0.5	0.5
Laboratory Equipments	2.75	2.75
Visiting Faculty Remuneration	0.00	0.00
Laboratory Exp. Consumable	0.25	0.25
Laboratory Maintenance	0.50	0.50
Students Projects	0.50	0.50
Journal & Periodicals	0.25	0.25
Faculty Development & Initiative	0.75	0.75
Contingency Exp	0.50	0.50
Total	10.00	

Submitted by,

Saptarshi Nandi
HOD (CE)

