

SRI BHARATHI

ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)

Kaikkurichi, Pudukkottai -622 303

www.sbec.edu.in

NAAC DOCUMENTS



Quality Indicator Frame Work

Criterion – 2

Teaching-Learning and Evaluation

Submitted by

IQAC
Internal Quality Assurance Cell

Sri Bharathi Engineering College for Women

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai-25) Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

Criteria 2 Teaching-Learning and Evaluation 350

Key Indicator- 2.3. Teaching- Learning Process (40)

2021-2022 PROBLEM SOLVING CIVIL ENGINEERING

Activity	Number of Students Attended	Page No.
Tutorial	16	3
Mini Project	04	8
TOTAL STUDENTS ATTENDED	20	-

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Criteria 2 Teaching-Learning and Evaluation 350

Key Indicator- 2.3. Teaching- Learning Process (40)

2021-2022
CIVIL ENGINEERING
PROBLEM SOLVING
TUTORIAL



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DEPARTMENT OF CIVIL ENGINEERING

Problem Solving Methodology

List of Students III year Civil-Problem Solving Method

Academic Year (2021-2022)

S.No	Register No	Name	Year/Sem	Name of the learning method
1	912619103001	Ajitha T		trame of the learning method
2	912619103002	Aruljenifar C		
3	912619103003	Divya V		
4	912619103004	Mangaiyarkarasi G		Problem Solving Method- Tutorial
5	912619103005	Muthulakshmi S		
6	912619103006	Praveena S	III/V	CE 8591/ Foundation Engineering
7	912619103007	Priyadharshini K		CE 83917 Foundation Engineering
8	912619103009	Ragavi V		
9	912619103301	Lilly John.J		
10	912619103302	Bhuvani.S		

Name and Signature of the Faculty Incharge
P. Denni Hora, Aplain

PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

HoD/Civil HOD / CIVIL SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN KAIKKURICHI, PUDUKKOTTAI - 622 303



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DEPARTMENT OF CIVIL ENGINEERING

Tutorial Answer sheet

Name of the Student: Lilly John . T

AU Register Number: 912619103301

	Tutorial –	01	D	ate of Issue:	26.07.2021	Marks	10
Course code	CE8591	Course Title	-0.07.2021		Marks 10		
Year	III	Semester	V	Date of Subr	27.07.20)21	

Q.No	Questions	CO
1.	An R.C. Column footing 2.26 m in square shape is to rest 1.5 m below level ground level is on cohesive soil. The unit weight is17.6kN/m³. What is the safe load if cohesion is 30kN/m³ Facto of safety 2.4? Angle of internal friction 33° by IS code.	C304.1
2.	A square footing located at a depth of 1.5 m below the ground surface in Cohesionless soil carries a column load of 1280 kN. The soil is submerged having an effective unit weight of 11.5 kN/m³ and an angle of shearing resistance of 300. Show and find the size of the footing for Fs = 3 by Terzaghi's theory of general shear failure.	C304.1
3.	In a plate bearing test on pure clayey soil failure occurred at a load of 12.2 tonnes. The size of the plate was 45 cm x 45 cm and the test was one at a depth of 1.0 m below ground level. Calculate the ultimate bearing capacity for a 1.5 m wide continuous wall footing with its base at a depth of 2m below ground level. The unit wt. of clay may be taken as 1.9 gm/ c.c.	C304.1

Mark Allocation

Rubrics	Marks Allocated	Marks obtained
Problem solving approach	6	03
Correction of answer	2	0.1
Timely submission	2	01
Total marks	10	0
		04

Name and Signature of the Faculty Incharge

P. Dewris Hora, Apleture

HoD/Civil

HOD / CIVIL

SRI BHARATHI ENGINEERING **COLLEGE FOR WOMEN** KAIKKURICHI.

Dr. S.THILAGAVATHI M.E., Ph.D., PRINCIPAL SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN Kaikkurchi - 622 303 Pudukkoji - ne

PUDUKKOTTAI - 622 303



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DEPARTMENT OF CIVIL ENGINEERING

Problem Solving Methodology

List of Students II year Civil-Problem Solving Method

Academic Year (2021-2022)

S.No	Register No	Name	Year/Sem	Name of the learning method
1	912620103001	Aswini T		
2	912620103002	Geetha M		
3	912620103003	Keerthi S	II/IV	Problem Solving Method-
4	912620103004	Subathra S		Tutorial CE 8403/ Applied Hydraulic Engineering
5	912620103301	Bhavani S		
6	912620103302	Megala V		

Name and Signature of the Faculty Incharge (A. SIVAYOGARAJ).

Dr. S.THILAGI VATHE M.E., Ph.D., PRINCIPAL

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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN KAIKKURICHI, PUDUKKOTTAI - 622 303



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DEPARTMENT OF CIVIL ENGINEERING

Tutorial Answer sheet

Name of the Student: Subathac. 5

AU Register Number: 912620103004

Т	Tutorial -	01	Date	e of Issue:	24.03.2022	Marks	10
Course code	CE8403	Course Title	e Applied hydraulic Engineering.				
Year	II	Semester	IV	Date of S	Submission:	26.03.20)22

Q.No	Questions					
1.	The specific energy for a 3 m wide channel is 8 Nm/N. What is themaximum possible discharge in the channel? Show that in a rectangular channel, maximum discharge occurs whenthe flow is critical for a given value of specific energy.	C311.1				
2.	A 8 m wide channel conveys 15 cumecs of water at a depth of 1.2 m. Determine Specific energy of the flowing water, Critical depth, Critical velocity, Minimum Specific energy, Froude number and also state whether the flow is sub critical or super critical.	C311.1				
3.	Derive the expressions for the most economical depths of flow in termsof the diameter of the channel of circular cross-section: For maximum velocity and For maximum discharge.	C311.1				

Mark Allocation

Rubrics	Marks Allocated	Marks obtained
Problem solving approach	6	03
Correction of answer	2	0.1
Timely submission	2	01
Total marks	10	05

Name and Signature of the Faculty Incharge

CA. SIVAYORARAI PRINCIPAL

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN Kaikkurchi - 622 303 Pudukkot Dt.

AGAVATHI M.E., Ph.D., SRI BHARATH! ENGINEERING COLLEGE FOR WOMEN KAIKKURICHI. PUDUKKOTTAI - 622 303

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Criteria 2 Teaching-Learning and Evaluation 350

Key Indicator- 2.3. Teaching- Learning Process (40)

2021-2022
CIVIL ENGINEERING
PROBLEM SOLVING
MINI PROJECT



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DEPARTMENT OF CIVIL ENGINEERING

Problem Solving Methodology

IV Year/VII Semester Mini Project Batch List (2021-2022)

Batch No	Register Number	Students Name	Project Title	Guide Name
1	912618103005	Meenachi.K		
	912618103008	Sathya.M	Planning and	MS.G.GAYATHRI
	912618103009	Srividhya.S	Designing of Bank Building	AP/CIVIL
	912618103010	Umamaheswari.K		

Project CoOrdinator

HoD/Civil

HOD / CIVIL

SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN

KAIKKURICHI,

PUDUKKOTTAI - 622 303

Dr. S.THILAGAVATHI M.E., Ph.D.,
PRINCIPAL

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN Kaikkurchi - 622 303, Pudukkottai Dt. Principal

PRINCIPAL

SRI SHARATHI ENGINEERING COLLEGE FOR WOMEN KAIKKURICHI - 622 303.

PUDUKKOTTAL DISTRICY



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DEPARTMENT OF CIVIL ENGINEERING

Problem Solving Methodology

List of Students IV year Civil-Problem Solving Method

Academic Year (2021-2022)

Batch No	Register No	Name	Year/Sem	Topic	Name of the learning method
	912618103005	Meenachi.K	Planning and Designing of		
	912618103008	Sathya.M		Planning and Designing of	Problem Solving
1	912618103009	Srividhya.S	IV/VII	Bank Building	Method-
	912618103010	Umamaheswari.K			Mini Project

Dr. S.THILAGAVATHI M.E., Ph.D.
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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN Kaikkurchi - 622 303, Pudukkotiai Dt. HOD / CIVIL
SRI BHARATHI ENGINEERING
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KAIKKURICHI,
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PLANNING AND DESIGNING OF BANK BUILDING

A PROJECT REPORT

Submitted by

K.MEENACHI 912618103005

M.SATHYA 912618103008

S.SRIVIDHYA 912618103009

K.UMAMAHESWARI 912618103010

In partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

IN

CIVIL ENGINEERING

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN KAIKKURICHI, PUDUKKOTTAI-622303

ANNA UNIVERSITY: CHENNAI - 600 025 JANUARY-2022

Dr. S.THILAGAVATHI M.E., Ph.D

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN Kaikkurchi - 622 303, Pudukkottai Dt.

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "PLANNING AND DESIGNING OF BANK BUILDING" is the bonafide work of MEENACHI.K (912618103005), SATHYA.M (912618103008), SRIVIDHYA.S (912618103009) and UMAMAHESWARI.K (912618103010) who carried out the project work under my supervision.

SIGNATURE

Ms.R.MANJU, M.E.,

HEAD OF THE DEPARTMENT,

Department of civil Engineering

Sri Bharathi Engineering

College for Women,

Kaikkurichi,

Pudukkottai - 622 303.

SIGNATURE

Ms.G.GAYATHRI, M.E.,

SUPERVISOR,

Department of civil Engineering

Sri Bharathi Engineering

College for women,

Kaikkurichi,

Pudukkottai - 622 303.

Submitted for the project viva - voice examination held on. 8.13 22

Dr. S.THILAGAVATHIA

PRINCIPAL SRI BHARATHI ENGINEERING

COLLEGE FOR WOMEN

Kaikkurchi - 622 303, Pudukkotlai Dt.

INTERNAL EXAMINER

EXTERNAL EXAMINER