



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



Criteria 2

Teaching-Learning and Evaluation

350

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

2019-2020

**PROBLEM SOLVING
CIVIL ENGINEERING**

Activity	Number of Students Attended	Page No.
Tutorial	16	3
Mini Project	12	8
TOTAL STUDENTS ATTENDED	28	-



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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

Criteria 2

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

2019-2020

CIVIL ENGINEERING

PROBLEM SOLVING

TUTORIAL



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DEPARTMENT OF CIVIL ENGINEERING

Problem Solving Methodology

List of Students II year Civil-Problem Solving Method

Academic Year (2019-2020)

S.No	Register No	Name	Year/Sem	Name of the learning method
1	912618103003	Maheshwari V	II/III	Problem Solving Method- Tutorial CE 8302/ Fluid Mechanics
2	912618103005	Meenachi K		
3	912618103008	Sathya M		
4	912618103009	Srividhya S		
5	912618103010	Umamaheswari K		

Name and Signature of the Faculty Incharge

{S. RAJAPANDIAN}

Dr. **S.THILAGAVATHI** M.E., Ph.D.,
PRINCIPAL
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DEPARTMENT OF CIVIL ENGINEERING

Tutorial Answer sheet

Name of the Student : *Umamaheshwari.k*

AU Register Number: *912618103010*

Tutorial – 03			Date of Issue:	08.07.2019	Marks	10
Course code	CE8302	Course Title	Fluid mechanics			
Year	II	Semester	III	Date of Submission:	09.07.2019	
Q.No	Questions					CO
1.	Calculate the capillary effect in millimeters a glass tube of 4mm diameter, when immersed in (a) water (b) mercury. The temperature of the liquid is 20° C and the values of the surface tension of water and mercury at 20° C in contact with air are 0.073575 and 0.51 N/m respectively. The angle of contact for water is zero that for mercury 130°. Take specific weight of water as 9790 N/m ³ .					C203.1
2.	If the velocity profile of a liquid over a plate is a parabolic with the vertex 202 cm from the plate, where the velocity is 120 cm/sec. calculate the velocity gradients and shear stress at a distance of 0, 10 and 20 cm from the plate, if the viscosity of the fluid is 8.5 poise.					C203.1
3.	A 15 cm diameter vertical cylinder rotates concentrically inside another cylinder of diameter 15.10 cm. both cylinders are 25 cm high. The space between the cylinders is filled with a liquid whose viscosity is unknown. If a torque of 12.0 Nm is required to rotate the inner cylinder at 100 rpm determine the viscosity of the fluid.					C203.1

Mark Allocation

Rubrics	Marks Allocated	Marks obtained
Problem solving approach	6	4
Correction of answer	2	1
Timely submission	2	1
Total marks	10	6

Name and Signature of the Faculty Incharge

[S. RAJAPANDIAN]

[Signature]
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DEPARTMENT OF CIVIL ENGINEERING

Problem Solving Methodology

List of Students III year Civil-Problem Solving Method

Academic Year (2019-2020)

S.No	Register No	Name	Year/Sem	Name of the learning method
1	912617103001	Chandrika C	III/V	Problem Solving Method- Tutorial CE8501/ Design of Reinforced Cement Concrete Elements
2	912617103002	Dhesikaparthi D		
3	912617103003	Karthika K		
4	912617103004	Kasthuri K		
5	912617103005	Monika K		
6	912617103006	Muthumeena P		
7	912617103007	Pothumpen A		
8	912617103008	Priyadharshini S		
9	912617103009	Rajeswari J		
10	912617103010	Sivapriya S		
11	912617103701	Lakshmi A		

Name and Signature of the Faculty Incharge

G. GAYATHRI, AP/CIVIL


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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

DEPARTMENT OF CIVIL ENGINEERING

Tutorial Answer sheet

Name of the Student : *Dhesika parthi . D*

AU Register Number: *912617103 002*

Tutorial – 01			Date of Issue:	10.07.2019	Marks	10
Course code	CE8501	Course Title	Design Of Reinforced Cement Concrete Elements			
Year	III	Semester	V	Date of Submission:	11.07.2019	

Mark Allocation

Q.No	Questions	CO
1.	Determine the position of neutral axis and the moment of resistance of a beam 300mm wide and 550mm effective depth. It is reinforced with 3 bars of 16mm diameter. Use M20 grade of concrete and Fe415 grade of steel. Adopt working stress method	C301.1
2.	A rectangular RC section having a width of 350 mm is reinforced with 2 numbers of 28 mm diameters at an effective depth of 700mm. adopting M20 grade concrete and Fe415 HYSD bars. Determine the ultimate moment of resistance of the section.	C301.1
3.	A beam of rectangular section of width 225mm and effective depth 500 mm is simply supported over a span of 5m is reinforced with four members of 20 mm dia mild steel bars in the tension side. Determine the position of neutral axis and the stresses in the top most compression fiber of concrete and tension steel. If the beam carries a UDL of 9KN/m (including self-weight) for the entire span. Use working stress method of design.	C301.1

Rubrics	Marks Allocated	Marks obtained
Problem solving approach	6	<i>4</i>
Correction of answer	2	<i>2</i>
Timely submission	2	<i>0</i>
Total marks	10	<i>06</i>

Name and Signature of the Faculty Incharge

G. Gayathri, AP / CIVIL

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

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Criteria 2

Teaching-Learning and Evaluation

350

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

2019-2020

CIVIL ENGINEERING

PROBLEM SOLVING

MINI PROJECT



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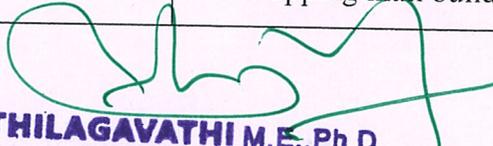
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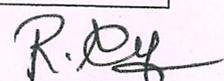
Problem Solving Methodology

List of Students IV year Civil-Problem Solving Method

Academic Year (2019-2020)

Batch No	Register No	Name	Year/Sem	Topic	Name of the learning method
1	912616103001	Aarthi.G	IV/VII	Planning and Designing of police quarters	Problem Solving Method- Mini Project
	912616103006	Masilamani.M			
	912616103007	Menaka.R			
2	912616103002	Ananthi.S	IV/VII	Design of dividing dam across the existing channel to provide pushing head for augmenting water supply to temple urani at Azhakambalpuram village in Pudukkottai district	
	912616103301	Gowsika .N			
	912616103302	Kaliswari.M			
3	912616103004	Kanimozhi.P	IV/VII	Planning and Designing of water treatment plant	
	912616103008	Praveena.M			
	912616103303	Maheswari.M			
4	912616103005	Lavanya.K	IV/VII	Planning and Designing of shopping mall building	
	912616103304	Saratha Pritha.S			
	912616103501	Visalatchi P			


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DEPARTMENT OF CIVIL ENGINEERING

Problem Solving Methodology

IV Year/VII Semester Mini Project Batch List (2019-2020)

Batch No	Register Number	Students Name	Project Title	Guide Name
1	912616103001	Aarthi.G	Planning and Designing of Police Quarters	Ms.R.MANJU AP/CIVIL
	912616103006	Masilamani.M		
	912616103007	Menaka.R		
2	912616103002	Ananthi.S	Design of Dividing Dam Across the Existing Channel to Provide Pushing Head for Augumenting Water Supply to Temple Urani at Azhakambalpuram Village in Pudukkottai District	Mrs.R.PADMARANI AP/CIVIL
	912616103301	Gowsika .N		
	912616103302	Kalishwari.M		


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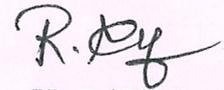
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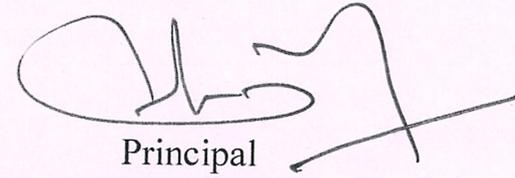
Problem Solving Methodology

3	912616103004	Kanimozhi.P	Planning and Designing of Water Treatment Plant	Ms.G.GAYATHRI AP/CIVIL
	912616103008	Praveena.M		
	912616103303	Maheswari.M		
4	912616103005	Lavanya.K	Planning and Designing of shopping mall building	Mrs.P.DENNIS FLORA AP/CIVIL
	912616103304	Saratha Pritha.S		
	912616103501	Visalatchi P		


Project Coordinator


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COLLEGE FOR WOMEN
KAIKKURICHI - 622 303,
PUDUKKOTTAI DISTRICT



PLANNING AND DESIGNING OF POLICE QUARTERS

A DESIGN PROJECT REPORT

Submitted by

AARTHI.G	912616103001
MASILAMANI.M	912616103006
MENAKA.R	912616103007

In partial fulfillment for the award of the degree

Of

BACHELOR OF ENGINEERING

IN

CIVIL ENGINEERING

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

KAIKKURICHI, PUDUKKOTTAI-622 303

ANNA UNIVERSITY: CHENNAI 600 025

OCTOBER-2019

Dr. S.THILAGAVATHI M.E., Ph.D.
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Kalkkurichi - 622 303, Pudukkottai Dt.

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "PLANNING AND DESIGNING OF POLICE QUARTERS" is the bonafide work of AARTHI.G (912616103001), MASILAMANI.M (912616103006) and MENAKA.R (912616103007) who carried out the project work under my supervision.


SIGNATURE

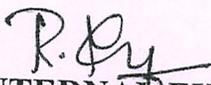
Ms.R.MANJU, M.E.,
HEAD OF THE DEPARTMENT,
Department of civil Engineering
Sri Bharathi Engineering
College for Women,
Kaikkurichi,
Pudukkottai - 622 303.


SIGNATURE

Ms.G.GAYATHRI, M.E.,
SUPERVISOR,
Department of civil Engineering
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Kaikkurichi,
Pudukkottai - 622 303.

Submitted for the project viva – voice examination held on.. 31/10/19


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


EXTERNAL EXAMINER
31/10/19



**DESIGN OF DIVIDING DAM ACROSS THE EXISTING CHANNEL
TO PROVIDE PUSHING HEAD FOR AUGMENTING WATER
SUPPLY TO TEMPLE URANI AT AZHAKAMBALPURAM
VILLAGE IN PUDUKKOTTAI DISTRICT**

A DESIGN PROJECT REPORT

Submitted by

ANANTHI . S	912616103002
GOWSIKA . N	912616103301
KALISWARI . M	912616103302

In partial fulfilment for the award of the degree

of

BACHELOR OF ENGINEERING

in

CIVIL ENGINEERING

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OCTOBER - 2019

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

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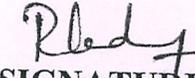
ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "DESIGN OF DIVIDING DAM ACROSS THE EXISTING CHANNEL TO PROVIDE PUSHING HEAD FOR AUGMENTING WATER SUPPLY TO TEMPLE URANI AT AZHAKAMBALPURAM VILLAGE IN PUDUKKOTTAI DISTRICT" is the bonafide work of ANANTHIS (912616103002), GOWSIKAN (912616103301) and KALISWARI.M (912616103302) who carried out the project work under my supervision.

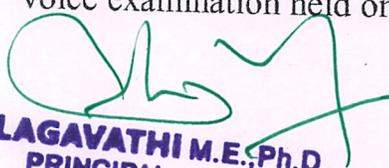

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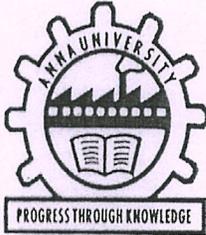
Submitted for the project viva – voice examination held on.. 31.10.2019


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INTERNAL EXAMINER


EXTERNAL EXAMINER



**PLANNING AND DESIGNING OF WATER TREATMENT
PLANT**

A DESIGN PROJECT REPORT

Submitted by

KANIMOZHI.P 912616103004

PRAVEENA.M 912616103008

MAHESWARI.M 912616103303

In partial fulfillment for the award of the degree

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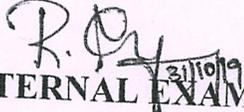
BONAFIDE CERTIFICATE

Certified that this project report "PLANNING AND DESIGNING OF WATER TREATMENT PLANT" is the bonafide work of KANIMOZHI.P (912616103004), PRAVEENA.M (912616103008), MAHESWARI.M (912616103303) who carried out the project work under my supervision.


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INTERNAL EXAMINER


EXTERNAL EXAMINER


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**PLANNING AND DESIGNING OF SHOPPING MALL
BUILDING
A DESIGN PROJECT REPORT**

Submitted by

LAVANYA.K	912616103005
SARATHA PRITHA.S	912616103304
VISALATCHI.P	912616103501

In partial fulfilment for the award of the degree

Of

BACHELOR OF ENGINEERING

IN

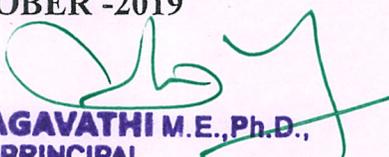
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ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report “**PLANNING AND DESIGNING OF SHOPPING MALL BUILDING**” is the bonafide work of **LAVANYA.K (912616103005)**, **SARATHA PRITHA.S (912616103304)**, and **VISALATCHI.P (912616103501)**, who carried out the project work under my supervision.


SIGNATURE

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Submitted for the project viva – voce examination held on. 31.10.2019


INTERNAL EXAMINER


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