

**EXPERIMENTAL STUDY ON FLEXURAL BEHAVIOUR OF
EXTERNALLY RETROFFITED RC BEAM USING GFRP WRAPPING**

20SEP41 - PROJECT WORK

Submitted By

PAVITHRAN T

(20STR011)

in partial fulfilment of the requirements

for the award of the degree

of

MASTER OF ENGINEERING

IN

STRUCTURAL ENGINEERING

DEPARTMENT OF CIVIL ENGINEERING



KONGU ENGINEERING COLLEGE

(Autonomous)

PERUNDURAI, ERODE – 638 060

MAY- 2022

DEPARTMENT OF CIVIL ENGINEERING

KONGU ENGINEERING COLLEGE
(Autonomous)

PERUNDURAI, ERODE – 638 060

MAY – 2022

BONAFIDE CERTIFICATE

This is to certify that the Project Report entitled “EXPERIMENTAL STUDY ON FLEXURAL BEHAVIOUR OF EXTERNALLY RETROFFITED RC BEAM USING GFRP WRAPPING” is the bonafide record of project work done by PAVITHRAN T (20STR011) in partial fulfilment of the requirements for the award of the Degree of Master of Engineering in Kongu Engineering College of Anna university, Chennai during the academic year 2021 – 2022.


SUPERVISOR

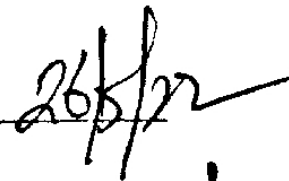
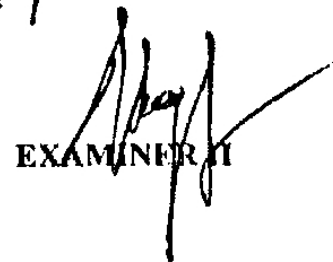
K. S. NAVANEETHAN M.E.,
Assistant Professor,
Department of Civil Engineering


HEAD OF THE DEPARTMENT

Dr. P.S. KOTHAI, M.E., Ph.D.,
Professor,
Department of Civil Engineering

Date: 26/5/2022

Submitted for the end semester viva voce examination held on


EXAMINER I
EXAMINER II

DEPARTMENT OF CIVIL ENGINEERING

KONGU ENGINEERING COLLEGE

(Autonomous)

PERUNDURAI, ERODE - 638 060

MAY - 2022

DECLARATION

I affirm that the Project Report entitled "EXPERIMENTAL STUDY ON FLEXURAL BEHAVIOUR OF EXTERNALLY RETROFFITED RC BEAM USING GFRP WRAPPING," being submitted in partial fulfilment of the requirements for the award of Master of Engineering is the original work carried out by me. It has not formed the part of any other project report or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

Date: 26/5/2022

T. Pavithran

Signature of the Candidate

Pavithran T (20STR011)

I certify that the declaration made by the above candidate is true to the best of my knowledge.

Date: 26/5/2022



Name and signature of the Supervisor with seal

K. S. NAVANEETHAN M.E.,

K.S.NAVANEETHAN M.E.,
Assistant Professor
Department of Civil Engineering,
Kongu Engineering College,
Perundurai - 638 060.

**DEPARTMENT OF CIVIL ENGINEERING
KONGU ENGINEERING COLLEGE**

(Autonomous)

PERUNDURAI, ERODE-638060

MAY 2022

CERTIFICATE OF UTILIZATION

This is to certify that Pavithran T (20STR011) utilized the Structural Engineering Laboratory (Department of Civil Engineering) for the project work entitled "EXPERIMENTAL STUDY ON FLEXURAL BEHAVIOUR OF EXTERNALLY RETROFFITED RC BEAM USING GFRP WRAPPING," during the academic year 2021-2022.


LABORATORY INCHARGE


HOD

**Dr P.S.KOTHAI
PROFESSOR AND HEAD
DEPARTMENT OF CIVIL ENGINEERING
KONGU ENGINEERING COLLEGE
THCPUPALAYAM (Po)
PERUNDURAI (TK), ERODE - 638 060**

PROJECT REPORT CHECK LIST

PR-03

Rev.0

01-09-19

PROJECT REPORT CHECK LIST / (PRCL)

01. Name of the Project : *Experimental Study on behaviour of Externally Reinforced RC beam* Code No:
02. Department : *using GFRP wrapping*
03. Name of the internal Guide : *Civil Engineering.*
04. Name(s) of the Student(s) : *K.S Navaneethan* Roll No.(s): *2057R011*

05. Nature of the Project : ☒ New Project / Continuation

06. If Continuation, Code number of the Previous Project :

07. Type of Project : *Experimental Work*

08. Submission of monthly reports (for PG Projects) in time (put tick mark):

Month 1	Month 2	Month 3	Month 4	Month 5

09. Approval of written Report : Signature

(Signature)
(Guide)

09. Approval of Project Format :

(Signature)
(Co-ordinator)

10. Approval of the Typed Report :

(Signature)
(Guide)

11. Receipt of 3 copies of synopsis & recommended for Head of Department's Signature :

(Signature)
(Co-ordinator)

HOD *Dr P.S. KOTHAI*
26/05/2022
PROFESSOR AND HEAD
DEPARTMENT OF CIVIL ENGINEERING
KONGU ENGINEERING COLLEGE
THOPPUPALAYAM (PO)
PERUNDURAI (TK), ERODE - 636 090