

Self Compacting Concrete by using GGBS

The Aim of the project is to increase the durability characteristic properties of the concrete. Generally in concrete the evolution of carbon dioxide is high and it causes pollution in the environment. By adding GGBS in the cement to reduce the pollution and to improve the durability property of the structure. In this project I am trying to improve the quality of concrete and also trying to improve the mechanical properties of the material. Self-Compacting Concrete is a kind of concrete which is capable of flowing into the form work uniformly, without segregation and bleeding, better finishes, easier placement, solvent concrete sections, no vibration, safer working environment without any application of vibration. Nowadays the waste materials like silica fume, fly ash are keep on increasing so if these materials are replaced for cement then the emission of carbon dioxide will be reduced and the pollution will be reduced. If we add GGBS we would attain maximum durability and emission will be reduced.

Reference

- 1) A review on GGBS in Concrete.
- 2) Study on Self Compacting Concrete.

Anna University



Reg.No. 960415413007/RG

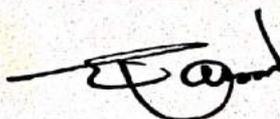
The Syndicate of the Anna University hereby makes known that
NAINAR E *has been admitted to the* **DEGREE OF MASTER OF**
ENGINEERING *in* **STRUCTURAL ENGINEERING** *under the*
Faculty of Civil Engineering, having completed the prescribed programme of
study and having been certified by the duly appointed examiners to be qualified to
receive the same, and has been placed in **FIRST CLASS** *at the Examination held*
in **JUNE 2017** .

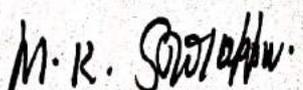
Given under the Seal of the University



Chennai 600 025
India
June 2018


Controller of Examinations


Registrar


Vice-Chancellor



ANNA UNIVERSITY, CHENNAI - 25
M.E. DEGREE EXAMINATIONS
CONSOLIDATED STATEMENT OF GRADES



N1132073010017E

Folio No. AUU1638492

NAME OF THE CANDIDATE	NANAR E			REGISTER NO.	960415413007
DATE OF BIRTH	11-SEP-88	GENDER	MALE	MONTH & YEAR OF LAST APPEARANCE	JUN 2017
COLLEGE OF STUDY	C.S.I. INSTITUTE OF TECHNOLOGY			REGULATIONS	2013
PROGRAMME & SPECIALIZATION	M.E. Structural Engineering				

SEMI NO	COURSE CODE	COURSE TITLE	CREDITS	LETTER GRADE	GRADE POINT	MONTH & YEAR OF PASSING
01	MA7154	Advanced Mathematical Methods	4	D	6	JUN 2016
01	ST7101	Concrete Structures	3	C	7	JAN 2016
01	ST7102	Structural Dynamics	3	D	6	JAN 2016
01	ST7103	Theory of Elasticity and Plasticity	3	C	7	JAN 2016
01	CN7001	Advanced Concrete Technology	3	C	7	JAN 2016
01	ST7002	Maintenance and Rehabilitation of Structures	3	B	8	JAN 2016
02	ST7201	Finite Element Analysis	3	D	6	JUN 2016
02	ST7202	Experimental Techniques and Instrumentation	3	D	6	JUN 2016
02	ST7203	Steel Structures	3	C	7	JUN 2016
02	ST7204	Earthquake Analysis and Design of Structures	3	C	7	JUN 2016
02	ST7008	Pre-Stressed Concrete	3	C	7	JUN 2016
02	ST7010	Design of Sub Structures	3	B	8	JUN 2016
02	ST7211	Advanced Structural Engineering Laboratory	2	S	10	JUN 2016
03	ST7013	Design of Steel Concrete Composite Structures	3	C	7	NOV 2016
03	ST7016	Prefabricated Structures	3	C	7	NOV 2016
03	ST7018	Stability of Structures	3	C	7	NOV 2016
03	ST7311	Seminar	1	S	10	NOV 2016
03	ST7312	Practical Training (4 Weeks)	1	S	10	NOV 2016
03	ST7313	Project Work (Phase I)	6	S	10	NOV 2016
04	ST7411	Project Work (Phase II)	12	S	10	JUN 2017

*** End of Statement ***

Cumulative Grade Point Average : 7.87

Classification : FIRST CLASS

Medium of instruction : ENGLISH

Chennai - 600 025.

Date : 31/08/2017

SIGNATURE OF THE STUDENT



[Signature]
CONTROLLER OF EXAMINATIONS



C.S.I. INSTITUTE OF TECHNOLOGY

(An ISO 9001 : 2000 Certified Institution)

THOVALAI, KANYAKUMARI DISTRICT - 629 302, TAMIL NADU.

(A Christian Minority Engineering College Approved by AICTE

Vide No. F730-52-270 RC/84 dated 30-06-1995 and Affiliated to Anna University)



TRANSFER CERTIFICATE

Sl. No: 6434

Date: 01-07-2017

1. Name : NAINAR E
2. Sex : MALE
3. Name of Father : Mr. N. EASWARAMOORTHY
4. Nationality : INDIAN
5. Religion & Caste : HINDU VELLALAR
6. Community : OC
7. Date of Birth : 11-09-1993
8. Date of Admission : 03-06-2015
9. Class to which admitted : M.E. - FIRST YEAR
10. Branch of Study : STRUCTURAL ENGINEERING
11. Admission No. : ST1507
12. Date on which the student left the college : 30-06-2017
13. Class in which the student was studying at the time of leaving : 4TH SEMESTER (FINAL YEAR)
14. Reason for leaving the college : COURSE COMPLETED
15. Name of the University Exam. & Reg. No. the student last appeared : ANNA UNIVERSITY, 960415413007
16. Whether passed the examination or not : REFER MARK SHEET
17. Conduct & Character : *Good*



Signature of Principal
Principal
C.S.I. INSTITUTE OF TECHNOLOGY
THOVALAI - 629 302



ST. JOSEPH UNIVERSITY

(A State Private University Established under Nagaland Govt. Act No. 6 of 2016, Recognized by UGC)
(Approved by All India Council for Technical Education (AICTE), FNo. Eastern/2018-19/1-3702691021)

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Dr. A. Kanchana, M.Sc., M.Phil., Ph.D.,
Registrar

No.: SJU/APT/TS/2017-18/

Dated 28-05-2018

To

Mr. E.NAINAR
No: 1/84 Kamalnagar,
Thovalai.
Kanyakumari -629302
Tamilnadu

Sub: SJU – Establishment – Mr. E.NAINAR, M.E.,-Appointment –Assistant Professor- Civil
Engineering Department-Orders-Issued-regarding

Based on the recommendation of staff selection committee **Mr. E.NAINAR, M.E.**,-is appointed as Assistant Professor in the Department of **Civil Engineering**, subject to the provisions of the St. Joseph University Act, 2016 and the Statutes, Ordinances and Regulations made thereunder and such other rules and orders issued from time to time by the St. Joseph University or by such other authority who may be competent to issue such rules, orders, etc., under the said Statutes.

You will be offered a basic pay of Rs. 25,000/- per month in the pay band 15,600-39,100/-

Terms & Conditions:

General:

1. The appointment takes effect from the date of reporting to duty or date of acceptance but for the purpose of computing salary the date of reporting to duty shall be taken into consideration.
2. He / She have to work under the supervision and guidance of the Head of the Institution and discharge the duties as assigned from time to time.
3. He / She should not take up any other employment (paid or honorary) or carry out similar activities (including studies) elsewhere without the explicit permission of the management.
4. He / She will be governed by the rules of the institution, which is now in force and which may come into force in future.



Loyola Institute of Technology & Science

(A Christian Minority Institution - Guided by Jesuits)

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Approved by AICTE
No: 06/05/TN/ENGG/2007/33 dt.16/5/08

Affiliated to Anna University, Chennai
No. 104/Affiliation/2008 dt.3/7/08

DR. J.D. DARWIN, M.E., Ph.D.,
Principal

Ref: LITES/PRI/HRD/EC/2018-19/04

Date: 17-09-2018

EXPERIENCE CERTIFICATE

This is to certify that **Mr. E. Nainar, M.E.**, was employed as **Assistant Professor** in the **Civil Engineering** Department of our Institute from 10-07-2017 to 26-06-2018.

During the period of service, his conduct and character were found to be good.



Principal

Dr. J. D. DARWIN, M.E., Ph.D.,
PRINCIPAL

LOYOLA INSTITUTE OF TECHNOLOGY & SCIENCE
LOYOLA NAGAR, THOVALAI - RAJAVOOR ROAD
THOVALAI - 629302, KANYAKUMARI DIST.

आयकर विभाग
INCOME TAX DEPARTMENT



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GOVT. OF INDIA

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Permanent Account Number Card
ADBPE7124P



नाम / Name
E NAINAR

पिता का नाम / Father's Name
EASWARAMOORTHY

जन्म की तारीख / Date of Birth
11/09/1993

E. Nainar
हस्ताक्षर / Signature





India Driving Licence(Tamilnadu)

Form 7

DOI 01/07/2013

D.L.No TN74 20130005325
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THOVALAI, THOVALAI TK
KANYAKUMARI DIST 629704
Temp.Addr:
NEW BHARATH DRIVING SCHOOL
D.O.B. : 11/09/1993 B.G. :



Punishments:



Naugh