



**NEWS LETTER OF DEPARTMENT OF
CIVIL ENGINEERING**

VOLUME – II (2014 –15)

**PUBLISHED BY
DEPARTMENT OF CIVIL ENGINEERING
SSM INSTITUTE OF ENGINEERING AND
TECHNOLOGY-DINDIGUL**



Vision&Mission

Vision

To provide world class technical education to all students aspiring for Civil Engineering profession and producing competent, disciplined quality engineers to solve challenges with societal focus.

Mission

To produce Civil Engineers of outstanding technical skills and highest ethical values to serve the community, by imparting advanced research, interaction with industry for global needs promoting innovative and original thinking.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

"In the present context, higher learning institutions offering engineering programme in India have evolved into adopting an outcome based education. The performance of any programme is evaluated based on the outcome of the graduates rather than outputs. The Programme Educational Objectives (PEOs) formulated for the civil engineering programme are listed below; "

"Graduates of Civil Engineering Programme after a few years of Graduation will acquire their ability to:"

- 1. Fundamental Knowledge:** Graduates will be able to analyze, design and propose a feasible solution to civil engineering problems by applying basic principles of mathematics, science and engineering.
- 2. Specialization and Design Skills:** Graduates will be inculcated with necessary professional skills, effective oral and written communication to be productive engineers.
- 3. Professional Skills:** Graduates will be able to work as a team in intra and interdisciplinary endeavors for development of new ideas and products to serve in contemporary societal contexts.
- 4. Lifelong Learning:** Graduates of the programme will be prepared to continue their professional development based on their awareness of professional society activities, and opportunities for further education.

PROGRAMME OUTCOMES (POS) - B.E Civil Engineering

Engineering Expertise: Graduates will demonstrate knowledge of mathematics, science and engineering

Perspicuous Comprehension: Graduates will demonstrate their ability to identify, formulate and solve complex Civil Engineering problems.

Create / Design/ Development of solutions: An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.

Inquisition on complex problems: Use research-based knowledge and research methods including design of experiments, analysis and understanding of data, and combination of the information to provide valid conclusions

Digital tools Utilization: Graduates will apply skills to use current software packages and present technically advanced equipments in each sector to analyze problems.

Engineer and Civilization: Apply reasoning, informed by the contextual knowledge, to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional Civil engineering practice.

Entourage and Viable: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

Competent Morality: Graduates will demonstrate knowledge of professional and ethical responsibilities

Articulation Intelligence: Graduates will communicate effectively in both verbal and written form

Life Span Acquirements: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Programme Specific Outcomes (PSO) for B.E Civil Engineering

Graduating Students of B.E. Civil Engineering programme will be able to:

PSO 1: Investigate, analyze and plan substructures and superstructures in a construction project and also be able to prepare laboratory test reports and estimate of quantities.

PSO 2: Assess water quality, effectively manage solid waste, apply advanced surveying techniques and manage utilization of resources in civil engineering infrastructure projects.

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Student Activities: 2014 - 2015

S. No.	Name of the Student	Year	Workshop/ Seminar Symposium / Conference	Program/Event	Organized by	Date	Prizes Won/ Participation
1	R.Muthukumar	IV year	Paper presentation	-	ICTACT Youth present	Aug 2014	Participated
2	S.Madhan Kumar	III year	Techlink (Symposium)	-	SAEINDIA SSMIET	Mar 17 th & 18 th	Participated
3	G.Saravana Kumar	III year	Paper presentation (Symposium)	Innovative & Nano-technical development on Structural technologies	NadarSaraswathi College of Engineering and Technology, Theni	Aug 25 th 2014	Participated
4	S.Madhava Rajkumar	III year	Paper presentation (Symposium)	Innovative & Nano-technical development on Structural technologies	NadarSaraswathi College of Engineering and Technology, Theni	Aug 25 th 2014	Participated
5	G.Saravana Kumar	III year	Android Bridge design (Symposium)	Innovative & Nano-technical development on Structural technologies	NadarSaraswathi College of Engineering and Technology, Theni	Aug 25 th 2014	Participated
6	S.Madhan Kumar	III year	Android Bridge design (Symposium)	Innovative & Nano-technical development on Structural technologies	NadarSaraswathi College of Engineering and Technology, Theni	Aug 25 th 2014	Participated

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7	Nanthini	III year	In plant training	-	Public Works Department	June 6 th to June 16 th 2014	Participated
8	L.Aravindhan	IV year	Paper presentation	Innovative building techniques-Tilt-up construction	K.Ramakrishnan college of technology, Trichy	Sep 9 th 2014	III prize
9	M.Dinesh	IV year	Paper presentation	Innovative building techniques-Tilt-up construction	K.Ramakrishnan college of technology, Trichy	Sep 9 th 2014	3 rd prize
10	S.Sakthivel	IV year	Paper presentation	Vault structure using paver blocs	K.Ramakrishnan college of technology	Sep 9 th 2014	Participated
11	S.Nageswaran	IV year	Paper presentation	Ground improvement techniques	K.Ramakrishnan college of technology, Trichy	Sep 9 th 2014	Participated
12	C.Panthalaselvan	IV year	Paper presentation	Ground improvement techniques	K.Ramakrishnan college of technology, Trichy	Sep 9 th 2014	Participated
13	A,Danikingsly	IV year	Paper presentation	Polymer concrete	K.Ramakrishnan college of technology, Trichy	Sep 9 th 2014	Participated
14	S.Madhankumar	IV year	Paper presentation	Polymer concrete	K.Ramakrishnan college of technology, Trichy	Sep 9 th 2014	Participated
15	B.Murugesan	IV year	Paper presentation	Vault structure using paver blocs	K.Ramakrishnan college of technology, Trichy	Sep 9 th 2014	Participated

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16	L.Aravindhan	IV year	Poster presentation	-	K.Ramakrishnan college of technology, Trichy	Sep 9 th 2014	II prize
17	M.Dinesh	IV year	Poster presentation	-	K.Ramakrishnan college of technology, Trichy	Sep 9 th 2014	II prize
18	B.Murugesan	IV year	Code cracking	-	K.Ramakrishnan college of technology, Trichy	Sep 9 th 2014	II prize
19	S.Sakthivel	IV year	Code cracking	-	K.Ramakrishnan college of technology, Trichy	Sep 9 th 2014	II prize
20	S.Nageswaran	IV year	CADD Contest	-	K.Ramakrishnan college of technology, Trichy	Sep 9 th 2014	II prize
21	T.Karthick Selvam	IV year	In-plant training	-	TWAD BOARD	Aug 11 th to 13 th 2014	Participated
22	T.Saravanan	IV year	In-plant training	-	TWAD BOARD	Aug 11 th to 13 th 2014	Participated
23	E.Vignesh	IV year	In-plant training	-	TWAD BOARD	Aug 11 th to 13 th 2014	Participated
24	P.Dhinakaran Prince	IV year	In-plant training	-	TWAD BOARD	Aug 11 th to 13 th 2014	Participated

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25	V.Kaleeswaran	IV year	In-plant training	-	TWAD BOARD	Aug 11 th to 13 th 2014	Participated
26	M.Dinesh	IV year	Paper & Poster Presentation	-	SSN College of Engineering, Kalavakkam	11 th Sep 2014	Participated
27	L.Aravindhan	IV year	Paper & Poster Presentation	-	SSN College of Engineering, Kalavakkam	11 th Sep 2014	Participated
28	M.Naveenkumar	III year	Paper Presentation & CONN'ACT	-	SSN College of Engineering, Kalavakkam	11 th Sep 2014	Participated
29	S.Prakash	III year	Paper Presentation & CONN'ACT	-	SSN College of Engineering, Kalavakkam	11 th Sep 2014	Participated
30	P.Muthupandi	III year	Paper Presentation & CONN'ACT	-	SSN College of Engineering, Kalavakkam	11 th Sep 2014	Participated
31	M.Naveenkumar	III year	Workshop	Construction Skills	SSN College of Engineering, Kalavakkam	11 th Sep 2014	Participated
32	S.Prakash	III year	Workshop	Construction Skills	SSN College of Engineering, Kalavakkam	11 th Sep 2014	Participated
33	P.Muthupandi	III year	Workshop	Construction Skills	SSN College of Engineering, Kalavakkam	11 th Sep 2014	Participated
34	L.Lakshmi priya	III year	Paper presentation	-	ICTACY Youth Talk 2014	-	Participated

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35	M.Naveen kumar	III year	Paper presentation	-	ICTACY Youth Talk 2014	-	Participated
36	B.Nathchi muthu	IV year	In-plant training	-	Public works department, Dindigul	11 th Aug to 13 th Aug 2014	Participated
37	V.Harish	IV year	In-plant training	-	Public works department, Dindigul	11 th Aug to 13 th Aug 2014	Participated
38	M.Devakumar	IV year	In-plant training	-	Public works department, Dindigul	11 th Aug to 13 th Aug 2014	Participated
39	M.Ansar Ali	IV year	In-plant training	-	Public works department, Dindigul	11 th Aug to 13 th Aug 2014	Participated
40	M.Manojkumar	IV year	In-plant training	-	Public works department, Dindigul	11 th Aug to 13 th Aug 2014	Participated
41	B.Sasidharan	IV year	In-plant training	-	Public works department, Dindigul	11 th Aug to 13 th Aug 2014	Participated
42	P.Sathyam oorthy	IV year	In-plant training	-	Public works department, Dindigul	11 th Aug to 13 th Aug 2014	Participated
43	A.Jerald	IV year	In-plant training	-	Public works department, Dindigul	11 th Aug to 13 th Aug 2014	Participated

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44	M.Laxman Dev Singh	IV year	In-plant training	-	Public works department, Dindigul	11 th Aug to 13 th Aug 2014	Participated
45	L. Lakshmi Priya	III	Paper Presentation	XAWIL'15	NSN College of Engineering & Technology, Karur	16.02. 2015	Participated
46	B. Dharanya	III	Paper Presentation	XAWIL'15	NSN College of Engineering & Technology, Karur	16.02. 2015	Participated
47	V. Hemalatha	III	Paper Presentation	INCEPTO'15	Kongu Engineering College, Karur	20.02. 2015	Participated
48	R. Aishwarya raj	III	Paper Presentation	INCEPTO'15	Kongu Engineering College, Karur	20.02. 2015	Participated
49	J. Sharmil Jona	III	Paper Presentation	INCEPTO'15	Kongu Engineering College, Karur	20.02. 2015	Participated
50	M. K. Madhan Raj	III	Workshop	PDMS	Codebind, Chennai	31.12. 2014	Participated
51	M. K. Madhan Raj	III	Aptitude	Corporate Training Test	Codebind, Chennai	31.12. 2014	Participated
52	M. K. Madhan Raj	III	Inplant Training	AutoCAD	Codebind, Chennai	31.12. 2014	Participated

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53	L. Lakshmi Priya	III	Youth Talk	ICTACT	ICTACT		Participated
54	M. Naveen Kumar	III	Youth Talk	ICTACT	ICTACT		Participated
55	R. Aishwarya raj	III	Workshop	Soil Mechanics & Foundation Engineering	Karpagam College of Engineering	09.10.2014	Participated
56	M.PARVA DHAVAR DHINI	III	Workshop	Soil Mechanics & Foundation Engineering	Karpagam College of Engineering	9.10.2014	Participated
57	C.P.PRIYANKKA	III	Workshop	Soil Mechanics & Foundation Engineering	Karpagam College of Engineering	9.10.2014	Participated
58	A.DANI KINGSLY	III	SYMPOSIUM	Code Cracking	Sri subramaniya college Engg & Tech	26.9.2014	Participated
59	S.MADHAN KUMAR	III	SYMPOSIUM	Technical Quiz	Sri subramaniya college Engg & Tech	26.9.2014	Participated
60	S.MADHAN KUMAR	III	SYMPOSIUM	Paper Presentation	Sri subramaniya college Engg & Tech	26.9.2014	Participated
61	S.MADHAN KUMAR	III	SYMPOSIUM	Code Cracking	Sri subramaniya college Engg & Tech	26.9.2014	Participated
62	S.MADHAVA RAJKUMAR	III	SYMPOSIUM	Paper Presentation	Sri subramaniya college Engg & Tech	26.9.2014	Participated

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63	S.MADHA VA RAJKUM AR	III	SYMPOSIU M	Technical Quiz	Sri subramaniya college Engg & Tech	26.9.2 014	Participated
64	G.SARAV ANAKUM AR	III	SYMPOSIU M	Paper Presentation	Sri subramaniya college Engg & Tech	26.9.2 014	Participated
65	G.SARAV ANAKUM AR	III	SYMPOSIU M	Technical Quiz	Sri subramaniya college Engg & Tech	26.9.2 014	Participated
66	A.DANI KINGSLY	III	SYMPOSIU M	Paper Presentation	Sri subramaniya college Engg & Tech	26.9.2 014	Participated
67	M.NANT HINI	III	Workshop	Advance Seismic Damage Control and Mitigation Effects of Structures	Kongunadu Engineering College, Trichy	20.09. 2014	Participated
68	N. Balaji	III	Workshop	Recent Trends in Civil Design, Ribbed Beam Roof Slabs, Earthquake Resisting Building	Vector Solutions	5 & 6- 9- 2014	Participated
69	S. Prakash	III	Workshop	Kraciva	SSN College of Engineering	11.09. 2014	Participated
70	M. Pavithra	III	Workshop	Advance Seismic Damage Control and Mitigation Effects of Structures	Kongunadu Engineering College, Trichy	20.09. 2014	Participated
71	G. Krishnaba bu	III	Workshop	Advance Seismic Damage Control and Mitigation Effects of Structures	Kongunadu Engineering College, Trichy	20.09. 2014	Participated

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Staff Activities:

S. No.	Name of the Staff	Designation	International/ National Conference/ Journal/ Workshop/ Seminar/ FDP/Guest Speaker	Title of the Paper/Program/ Event	Organized by	Date
1	Mr. J. Rex	Assistant Professor	Workshop	Non-destructive testing and evaluation of concrete structures	Mepco Schlenk Engineering College and Cocord Instruments, Chennai	21 st Aug 2014
2	Mr. V. Praveen Jesuraj	Assistant Professor	Workshop	Non-destructive testing and evaluation of concrete structures	MepcoSchlenk Engineering College and Cocord Instruments, Chennai	21 st Aug 2014
3	Mr. M. P. Karthik	Assistant Professor	National Journal (Annexure: I)	“Experimental Study on Shear Behaviour of Hybrid Fibre Reinforced Concrete Beams”	KSCE Journal of Civil Engineering	Aug 2014
4	Mr. M. P. Karthik	Assistant Professor	National Journal (Annexure: II)	Mechanical properties of high strength concrete with metallic and non-metallic fibres	Journal of Structural Engineering – SERC	Aug 2014
5	Mrs. M. Uma Maheshwari	Assistant Professor	Workshop	Emerging Trends in Nanotechnology for Civil Engineering Applications	PSNA College of Engineering Technology, Dindigul	11 th Nov 2014
6	Ms. D. Pricilla	Assistant Professor	Workshop	Emerging Trends in Nanotechnology for Civil Engineering Applications	PSNA College of Engineering Technology, Dindigul	11 th Nov 2014

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7	Mr. Arul Gnanapragasam	Assistant Professor	Workshop	Basic of Dynamics and Aseismic Design	University College of University, Dindigul	16 th June 2014
8	Mr. M. P. Karthik	Assistant Professor	Workshop	Basic of Dynamics and Aseismic Design	University College of University, Dindigul	16 th June 2014
9	Mrs. S. Lingeswari	Assistant Professor	Continuing Education & Quality Improvement Programme	Finite Element Methods & Applications in Civil Engineering	IIT, Mumbai	05 th to 09 th May 2014
10	Mrs. M. Uma Maheshwari	Assistant Professor	Workshop	Fluid Mechanics	RVS College of Engineering & Technology, Dindigul	20 th to 30 th May 2014
11	Mr. V. Anandan	Assistant Professor	Workshop	Structural Analysis II	PSNA College of Engineering Technology, Dindigul	2 nd to 8 th Dec 2014
12	Mr. G. Aravinda Raja	Assistant Professor	Workshop	Structural Analysis II	PSNA College of Engineering Technology, Dindigul	2 nd to 8 th Dec 2014
13	Mr. V. Anandan	Assistant Professor	Workshop	Corrosion Analysis & Testing of Concrete Structures	PSNA College of Engineering Technology, Dindigul	29 th Sep 2014
14	Mr. G. Aravinda Raja	Assistant Professor	Workshop	Corrosion Analysis & Testing of Concrete Structures	PSNA College of Engineering Technology, Dindigul	29 th Sep 2014
15	Mr. M. P. Karthik	Assistant Professor	Workshop	ABAQUS	KLN College of Information Technology, Sivagangai	17 th March 2014
16	Mr. Arul Gnanapragasam	Assistant Professor	Workshop	ABAQUS	KLN College of Information Technology, Sivagangai	17 th March 2014

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STUDENTS ACHIEVEMENTS:

- J.Nithyanandham, final year has attended the In-plant training in **CSIR-Structural Engineering Research Centre** from 03-06-2014 to 13-06-2014 and gained knowledge in the structural field.
- R.M.Venkatraman, final year has attended the In-plant training in **CSIR-Structural Engineering Research Centre** from 03-06-2014 to 13-06-2014 and gained knowledge in the structural field.
- G.Saravanakumar, third year has attended the In-plant training in **Public work department** from 09-06-2014 to 16-06-2014.
- S.Madhava rajkumar, third year has attended the In-plant training in **Public work department** from 09-06-2014 to 16-06-2014.
- M.Nanthini, third year has attended the In-plant training in **Public work department** from 09-06-2014 to 16-06-2014.

FACULTY-WORKSHOP:

- Mrs.S.Lingeswari, Asst.Professor has attended the workshop conducted by Indian Institute of Technology, Bombay on the title “**Finite Element Methods & Applications in civil Engineering**” from 05-05-2014 to 09-05-2014 and has gained knowledge in this convenient technique for the computer solution of complex problems in Civil Engineering field.
- Mr. A.ArulGanaprakasam, Asst.Professor has attended the workshop conducted by University College of engineering on the title “**Basics of Dynamics & Aseismic Design**” from 16-06-2014 to 22-06-2014 and has gained knowledge in the field of Earthquake Engineering.
- Mr.M.P.Karthik, Asst.Professor has attended the workshop conducted by University College of engineering on the title “**Basics of Dynamics & Aseismic**”

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Design” from 16-06-2014 to 22-06-2014 and has gained knowledge in the field of Earthquake Engineering.

- Ms.G.Priya, Asst.Professor has attended the workshop conducted by Government College of Engineering Salem on the title **“Workshop on Fluid Mechanics under the National Mission on Education through ICT”** from 20-05-2014 to 30-05-2014 and gained knowledge in the fundamentals of Fluid Mechanics.
- Mrs.M.UmaMageswari, Asst.Professor has attended the workshop conducted by Government College of Engineering Salem on the title **“Workshop on Fluid Mechanics under the National Mission on Education through ICT”** from 20-05-2014 to 30-05-2014 and gained knowledge in the fundamentals of Fluid Mechanics.

FACULTY ACHIEVEMENTS:

- Mr. M.P.Karthik, Asst. Professor has published his journal in Annexure-1 entitled on “Experimental Study on Shear Behaviour of Hybrid Fibre Reinforced Concrete Beams” KSCE Journal of Civil Engineering, pISSN 1226-7988, eISSN 1976-3808,(e-journal), DOI: 10.1007/s12205-013-2350-1, pp:1-6.

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FDP ON ENGINEERING MECHANICS



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MODEL MAKING



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CONSTRUCTION WORKERS MEETING





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