

**SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING**  
**KALAVAKKAM-603110**

**CIVIL - UG STUDENT PROJECTS**

S. No	Name and Year of the Student(s)	Project Guide(s)	Title of the Project	Duration	Budget & Items Approved
1	J. Kartheeswaran D. Manikandan M. Saranya Yuvasri Raja III Year	Dr. P. Sangeetha	Study on mechanical properties of concrete with silicon carbide waste as partial replacement of aggregate	10 Months	<b>Budget: Rs.24000</b>  <b>Items Approved:</b> 1. Silicon Carbide Waste 2. Miscellaneous
2	S. A. Magendra Kamalnath M. Nitesh II Year Civil Adyant Srinivasan II Year ECE R. Sailesh II Year IT	Dr. N. Sivakumar Dr. R. Srinath	Smart waste collection system	6 Months	<b>Budget: Rs.26000</b>  <b>Items Approved:</b> 1. Hemisphere 2. Laser Sensors 3. Weight Sensors 4. Microprocessor 5. Trash Can 6. Miscellaneous
3	Ganapathi Nikitha Reddy C. Harish S. Sadhana S. T. Sreeharini III Year	Dr. N. Sivakumar	An analysis on effects of using polyampholyte variant in pervious concrete	9 Months	<b>Budget: Rs.25000</b>  <b>Items Approved:</b> 1. Cement 2. Standard Sand 3. Aggregate 4. Miscellaneous

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4	Amit Sharma Madhuru Harshitha Mayank Kesar Abdullah Mohamed Muhajirin Junaid Showkat Shabbar Khaja	Dr. Y.K. Sabapathy	An experimental study on aluminum reinforced concrete slabs	1 Year	<b>Budget: Rs.35000</b>  <b>Items Approved:</b> 1. Aluminum 2. Cement 3. Wood Mould 4. Miscellaneous
5	M. Naveen Prasath M. Naveen Kumar S. Tilakeswaran III Year	Dr. R. Rajkumar	Effect of backfill on the deformation behaviour of the buried HDPE pipe - An experimental study	1 Year	<b>Budget: Rs.22000</b>  <b>Items Approved:</b> 1. M Sand 2. River Sand 3. Cement 4. Fine Aggregate 5. Geogrid 6. Miscellaneous
6	N. Srinidhi V. Sharanya S. Prashant II Year	Dr. R. Srinath Dr. N. Sivakumar	Study on thermal behaviour of cenosphere filled cement mortar	1 Year	<b>Budget: Rs.20000</b>  <b>Items Approved:</b> 1. Arduino 2. Cenosphere 3. Cement 4. 70 mm 5 gang moulds 5. Miscellaneous
7	A. Keerthana A. Krishna Sree J. Lavanya S. Vedajanani II Year	Dr. R. Vijayalakshmi	Fresh and mechanical properties of light weight aggregate self-compacting concrete reinforced with scrap steel fibers	1 Year	<b>Budget: Rs.24000</b>  <b>Items Approved:</b> 1. Cement 2. Light Weight Aggregate 3. Gravel and Sand

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8	S. Kavlin R. G. Rethnakumar R. S. Subiksha G. Thosi II Year	Dr. P. Sangeetha	Study the behaviour of cold-formed steel tubular T-joints wrapped with GFRP strip	10 Months	4. Superplasticizer 5. Fly ash 6. Miscellaneous <b>Budget: Rs.28000</b> <b>Items Approved:</b> 1. Strain Gauges - 16 no's 2. Cold formed steel tubular member of two different thickness - 125 kg 3. Glass fiber and resin - 3 m 4. Miscellaneous
9	Balakrishna Chandra Sahana R. S. Oshiyana S. N. Rakshna V. Shenbaga Bala III Year	Dr. Surendar Natarajan	Developing an integrated geospatial flood modelling approach for 100 year return period flood	9 Months	<b>Budget: Rs.20000</b> <b>Items Approved:</b> 1. 2 Cartosat images with 2 m resolution 2. Miscellaneous
10	Yogasree Muthusamy Kuchi Phani Soumika P. Pandiyarajan II Year	Dr. N. Sivakumar Dr. B. Mahalingam	Influence of fly ash content on the rheological behaviour of high volume fly ash (HVFA) concrete	9 Months	<b>Budget: Rs.28000</b> <b>Items Approved:</b> 1. Standard sand 2. Cement 3. Coarse Aggregate 4. Fine Aggregate 5. Class F flyash 6. Chemical admixture 7. Miscellaneous

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11	M. Keerthivasan S. Krishnasambath M. Naresh	Dr. N. Sivakumar	Synthesis and usage of biochar obtained from dried palm flowers as partial cement replacer in previous concrete	8 Months	<p><b>Budget: Rs.25000</b></p> <p><b>Items Approved:</b></p> <ol style="list-style-type: none"> <li>1. Coarse Aggregate 100 cu.</li> <li>2. Fine aggregate 50 cu. ft</li> <li>3. Transport for collecting palm flowers waste</li> <li>4. Quarry dust</li> <li>5. Super plasticizer</li> <li>6. Foaming agents</li> <li>7. Frieght charges</li> <li>8. Standard sand 3 bags</li> <li>9. Cement 5 bags</li> <li>10. Miscellaneous</li> </ol>
12	V. Ashwin Kumaran B. Murali S. Netaji M. Yaashika II Year	Dr. S. Ramanagopal	Structural behaviour of deficient hollow steel stub columns strengthened using GFRP	10 Months	<p><b>Budget: Rs.28000</b></p> <p><b>Items Approved:</b></p> <ol style="list-style-type: none"> <li>1. Strain gauges - 16 no's</li> <li>2. Cold formed steel tubular section of thickness 3 mm - 125 kg</li> <li>3. Fiber and Resin - 3 m</li> <li>4. Miscellaneous</li> </ol>
13	K. Atchaya S. Gokul Javith Sha G. M. Kaviya Roshini Madhannath III Year	Dr. S. Ramanagopal	Study on the fresh and mechanical property of steel and polyolefin hybrid fiber reinforced recycled aggregate concrete	1 Year	<p><b>Budget: Rs.30000</b></p> <p><b>Items Approved:</b></p> <ol style="list-style-type: none"> <li>1. Cement, Aggregate, Gravel Sand</li> <li>2. Polyolefin and steel fibers</li> <li>3. Strain gauges</li> </ol>

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14	D. Abinaya K. T. Ashwin Kumar Kharatmole Sai Phanindra G. Mahalakshmi III Year	Dr. Y.K. Sabapathy	Experimental studies on braided fiber reinforced concrete	9 Months	4. Miscellaneous <b>Budget: Rs.28000</b>  <b>Items Approved:</b> 1. Cement 18 bags, Sand 20 cft 2. Coarse Aggregate 41 cft 3. Fiber sleeve 4. Miscellaneous
15	A. Kilwish Nighjo R. Sagaya Angelin Shalini D. Jeyashree III Year	Dr. S.V. Sivapriya	Analysis of desiccated crack patterns of modified expansive soil treated with nano alumina	1 Year	<b>Budget: Rs.14000</b>  <b>Items Approved:</b> 1. Lime 2. Transparent Cups 3. Miscellaneous
16	V. S. Pranav I. Punarv P. S. Sri Raghav Solish II Year	Dr. S.V. Sivapriya	Assessing the landslide caused due to rainfall through 1 g laboratory tests	1 Year	<b>Budget: Rs.22000</b>  <b>Items Approved:</b> 1. Test set-up 2. Accelerometer with read-out unit 3. Soil 4. Miscellaneous
17	Anjali Yadav Meenakshi Venkachalam M. Sonika III Year	Dr. M. Shanmugapriya Mathematics Dr. P. Sangeetha Civil	Prediction on flexural strength of cold-formed steel channel beam using soft computing techniques	10 Months	<b>Budget: Rs.28000</b>  <b>Items Approved:</b> 1. Strain Gauges 16 Nos 2. Cold formed steel channel section of thickness 4 mm 12

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18	J. Kesavan M. Sanjay Rathinam III Year	Dr. N. Sivakumar Dr. B. Mahalingam	Work ability of concrete while partial replacement of cement with fly ash and sand with quarry dust	9 Months	kg 3. Stiffener plates 30 kg 4. Miscellaneous <b>Budget: Rs.27000</b> <b>Items Approved:</b> 1. Coarse aggregate 100 cu. ft 2. Fine aggregate 50 cu. ft 3. Fly ash 100 cu. ft 4. Quarry dust 5. Super plasticizer PCE 25 kg 6. Standard sand 3 bags 7. Cement 3 bags 8. Miscellaneous <b>Budget: Rs.28000</b> <b>Items Approved:</b> 1. Aluminum 42 kg 2. Cement 13 bags 3. Fine Aggregate 10 cu.ft 4. Coarse aggregate 40 mm 5. Wood mould 8 6. Miscellaneous <b>Budget: Rs.27000</b> <b>Items Approved:</b> 1. Cement, M Sand, recycled aggregates 2. Miscellaneous
19	J. Jemimah S. Y. Giridharan S. Kanish Kumar II Year	Dr. Y.K. Sabapathy	A study of aluminium reinforced concrete columns	1 Year	
20	V. Adithya C. Adarsh Amith Krishna	Dr. R. Rajkumar	Experimental study of strength and durability characteristics using demolition waste as coarse aggregate	1 Year	

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