



Convocation 2013

A resplendent ceremony was held on 25th of June 2013 where the fourth batch from the Department of Civil Engineering was convoked. The function was presided by *Mr. S. Gopakumar*, Unit Head, Apollo Tyres. *Dr. C.S. Sundar*, Director, Materials, IGCAR, Kalpakam, delivered the Graduation address motivating the young graduates aspiring for higher studies and bright career opportunities. It was indeed a moment of joy, when *Elvi Maria Emmanuel* of S8 CE was selected as the GEM of AJCE. With immense pleasure we wish these budding engineers the very best for their future.





Congratulations to Ms Amritha Sunny who secured admission for persuing PhD in IIT-Madras and Ms Minu S and Ms.Nimy Vincent who got admission for PhD in NIT Suratkal.

The department also appreciated Ms.Nitty Sebastian, Ms.Athiralakshmi S, Ms.Mareeta Joji, Mr.Charlie S Panadan for their exemplary performance in GATE 2013 thereby securing admissions for M. Tech.

International Year Of Water Cooperation

In December 2010, the United Nations General Assembly declared 2013 as the United Nations International Year of Water Cooperation. Water is vital for life, pivotal for human development and necessary to keep our environment healthy. There is a fixed amount of water on the planet and with increasing population, economic development and changing lifestyles, undue pressure has been put on the world's limited water resources leading to increased competition for water and creating situations of potential conflict. But water can be used as an instrument of peace and development as every action involving water management requires effective cooperation between multiple factors whether at the local or international scale. The objective of this International Year is to raise awareness, both on the potential for increased cooperation, and on the challenges faced in water management in light of the increase in demand for water access, allocation and services.



STUDENTS ACHIEVEMENTS

Subject Toppers and Class Toppers in Semester University Exams

Semester VII

SUBJECT	TOPPER'S NAME	
Design of Concrete Structures II	Smariya T D	90
Water Resources Engg II	Merry Thomas Cheriankunju	
Transportation Engineering II	Merry Thomas Cheriankunju	86
Architecture & Town Planning	Roshni Ramachandran	
Environmental Engg II	Anju Chandran, Arunima L George	
Concrete Technology	Anju Merin Mathew	
Transportation Engineering Lab	Elvi Maria Emmanual	
CAD Lab	Nimmy Thomas	
Overall Topper	Arunima L George	

Semester V A

SUBJECT	TOPPER'S NAME	%
Engineering Mathematics	Amala James	82.67
Computer Programming	Aditya Tom	75.33
Design Of Concrete Structures-I	Amal John	84.00
Geotechnical Engineering-li	Amal John	82.67
Quantity Surveying And Valuation	Kquiny Sabin	79.33
Structural Analysis-I	Aditya Tom	64.00
Computer Techniques Lab	Amala James	89.33
Geotechnical Engineering Lab	Aksa Esther Thomas	81.33
Overall Topper	Amala James	74.17

Semester VB

SUBJECT	TOPPER'S NAME	% 91.33	
Engineering Mathematics	Sandra Maria Cherian		
Computer Programming	Renjana Mathew	74	
Design Of Concrete Structures-I	Sandra Maria Cherian	88	
Geotechnical Engineering-I	Sandra Maria Cherian & Sherry Rose Jose	84	
Quantity Surveying And Valuation	Sobin Mathew	87.33	
Structural Analysis-I	Sherry Rose Jose	68	
Computer Techniques Lab	Sherry Rose Jose	88.66	
Geotechnical Engineering Lab	Sherry Rose Jose	86	
Overall Topper	Sherry Rose Jose	79.92	

Semester III A

SUBJECT	TOPPER'S NAME	%	
Engineering Mathematics II	Anu Susan Joseph	92.67	
Economics And Communication Skills	Asha Antony 8		
Fluid Mechanics	Anu Susan Joseph	90.67	
Mechanics Of Solids I	Akhila Jobie Eapen	93.33	
Surveying I	Jillu Jose	78	
Engineering Geology	Gipson George Abraham	82	
Material Testing Lab I	Anjana Jose, Bisto Tom		
Surveying Practical I	Anjana Jose	88	
Overall Topper	Anu Susan Joseph	83	

Semester III B

SUBJECT	TOPPER'S NAME	%
Engineering Mathematics II	Nivea Thomas	99.33
Economics And Communication Skills	Thomaskutty Mathew	87.33
Fluid Mechanics	Reshma Thankachan	97.33
Mechanics Of Solids I	Nivea Thomas	92.00
Surveying I	Nivea Thomas	90.00
Engineering Geology	Nivea Thomas	84.00
Material Testing Lab I	Reshma Thankachan	87.33
Surveying Practical I	Nivea Thomas	95.45
Overall Topper	Nivea Thomas	91.33

GATE 2013

The department of Civil engineering AJCE was adorned with pride and honor when 15 of its students qualified GATE 2013. This result is the outcome of the GATE coaching initiated by a group of agile faculty members of our department in 2011. Congratulations to all the successful students for their meritorious achievement and special appreciation to the entire faculty for their relentless effort.



Christi Jose (47)



Shara Siby (40.6)



Ansaf V Karim (36)



Ebin Varghese (33)



Roshni Ramachandran (32.6)



Jince P Zacharia (32)



Merry Thomas Cheriankunju (31)



Smariya T.D. (30)



Ashi T Raphel (30)



Erin Jake Wilson (29)



Nivy elsa Mohan (29)



Tissa Tomy (28.6)



Arunima L George (27.3)



Ugwal Prakash (26.67)



Mary Rency (25)

ICI-FACE 2013

The Civil Department of AJCE secured a certificate of appreciation from Cochin chapter of Indian Concrete Institute (ICI), as the students actively participated in many of the events organized by the institute.

Cochin chapter of Indian Concrete Institute (ICI) provides efficient industry-academia interface for the budding Civil engineers in their pre-final years, from various engineering colleges, by conducting a workshop named Finishing Aids for Civil Engineers (FACE). 12 of our pre final year students have completed their course successfully (Sunday batch).

The students of Sixth Semester Civil Engineering bagged first prize in the Concrete Cube Strength Test Competition conducted by ICI (Indian Concrete Institute), Kochi Chapter in March 2013.

Nithin Thomas Sam of Sixth Semester Civil Engineering secured first in the Quiz competition organized by Bharathi Cements in association with ICI, during FACE 2013, conducted at Albertian Institute of Science and Technology (AISAT), Kochi.



Amal Jyothi Team which won First Prize in Concrete Cube Strength Test Competition conducted by, ICI Kochi Chapter in March 2013, with Chief Guest Dr. Anil Joseph (Center) & Asst. Professor Mr. Arun Sunny



Mr. Shelly S. Fernandez, Chairman, ICI-Kochi away the prize to Nithin Thomas Sam.

STUDENT ACHIEVEMENTS Technical Fests , Youth Festivals and Sports

Name	Fest	Name of the College	Event	Prize Awarded
Jince P Zachariah	Ignite	Sri Vellapally Natesan College	CAD Designer	First
Erin Jake Wilson	Ignite	Sri Vellapally Natesan College	CAD Designer	Second
Elvi Maria Emmanuel	Nakshathra '13	Saintgits	Paper Presentation	Third
Elvi Maria Emmanuel	Nakshathra '13	Saintgits	Meg event	Second
Shanu Thomas	Nakshathra '13	Saintgits	Paper Presentation	Second
Abraham Thomas Parambil	Nakshathra '13	Saintgits	Best Cartoonist	First
Manuel Tom	Nakshathra '13	Saintgits	Best Cartoonist	First
Mathews Francis	Nakshathra '13	Saintgits	Master Designer	Third
Manuel Tom	Nakshathra '13	Saintgits	Best Artist Junk Art	First
Shahul Hameed	Nakshathra '13	Saintgits	Best Artist Junk Art	First
Manuel Tom	Urvara'13	MG University	Cartooning	First
Ansaf V Karim	Pace Tornament	MG University	Cricket	First
Logi N Boby	Pace Tornament	MG University	Cricket	First
Muhammed Hasil	Pace Tornament	MG University	Cricket	First



As the National Service Scheme Programme officer of AJCE, Ansu Thomas, Assistant Professor, Civil Engineering Department has attended NSS programme officer's training from June 12th-18th, of 2013 at Rajagiri college of Social Sciences Kalamassery. She also participated in State Level Workshop for PO's and Volunteer Secretaries at Mar Baselious College of Engg. & Tech, Vidya Nagar Nalanchira, Trivandrum on 28th-29th of June 2013. Athira S (S5 IT) and Anson H Mathew (S5 AUE) also accompanied her.

Special Training Programme

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The students are given special training in Civil Engineering softwares like RIVET, AUTO CAD, STAAD, and PRIMAVERA which are certified. The training provided for the application of Total station (advanced surveying equipment) had enabled the students for the better understanding of surveying in the real world scenarios.

CIVI Quiz

- 1. What is the weight of one bag of cement?
- 2. Kerala is proud to house the largest earth dam in India, and the second largest of its kind in Asia , Which is that dam?
- 3. Which is the NH nearest to AJCE?
- 4. "The Tribunal, in a unanimous decision in 2007, determined the total availability of water in the Cauvery basin at 74 tmcfeet at the Lower Coleroon Anicut site, including 14 tmcft for environmental protection and seepage into the sea. The final award makes an annual allocation of 419 tmcft to Tamil Nadu in the entire Cauvery basin, 270 tmcft to Karnataka, 30 tmcft to Kerala and 7 tmcft to Puducherry."

The above statements are in relation with the Cauvery water dispute. What does tmc or tmcft stand for?

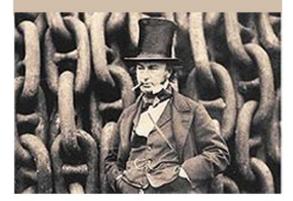
- 5. Being a Civil Engineer , have you thought who is the Father of Civil Engineering ?
- 6. First railway line in Kerala. You can also think about the first railway line in India
- 7. First planned city in India
- 8. All of us are aware of TMT (Thermo Mechanically Treated) bars. What does CTD bars mean?



- 1. 50 kg
- 2. Banasura Sagar Dam
- 3. National Highways 183 (NH 183) (Old NH 220) is located in India. It connects Kollam in Kerala with Theni in Tamil Nadu. Starting from NH 47 in Kollam it runs northwards and turns eastwards at Kottayam and runs along the northern border of Periyar Wildlife Sanctuary, before crossing the border into Tamil Nadu and it ends at Theni, where it joins NH 49 (Kochi-Rameswaram) and NH 45 (Chennai-Theni).
- 4. Thousand Million Cubic Feet
- 5. John Smeaton was the first self-proclaimed civil engineer, and often regarded as the "father of civil engineering".
- 6. On March 12, 1861, Kerala's first train, built by Madras railway company, chuqqed along the Beppur- Tirur line(30.6 km)
- 7. Chandigarh: The city of Chandigarh was the first planned city in post independent India in 1947 (pre-independence planned cities include Dispur in Assam, New Delhi in Delhi, Jaipur in Rajasthan, etc. and is known internationally for its architecture and urban design).
- 8. CTD stands for Cold Twisted Deformed

PIONEERS IN CIVIL ENGINEERING

ransportation Engineering is an inevitable part of Civil Engineering. Isambard Kingdom Brunel (9 April 1806 – 15 September 1859), was an English mechanical and civil engineer who built dockyards, the Great Western Railway, a series of steamships including the first propeller-driven transatlantic steamship and numerous important bridges and tunnels. His designs revolutionized public transport and modern engineering. Brunel, who had designed many suspension and railway bridges across various rivers in London and Bristol, is regarded as one of the expert who had played a major role in the development of bridge engineering.



CIVIL Engineering Marvels

The Bandra-Worli Sea Link, officially called Rajiv Gandhi Sea Link, is a cable-stayed bridge with pre-stressed concrete-steel viaducts on either sides that links Bandra in the Western Suburbs of Mumbai with Worli in South Mumbai. The bridge is a part of the proposed Western Freeway that will link the Western Suburbs to Nariman Point in Mumbai's main business district.

The 16 billion (US\$280 million) bridge was commissioned by the Maharashtra State Road Development Corporation (MSRDC), and built by the Hindustan Construction Company. The first four of the eight lanes of the bridge were opened to the public on 30 June 2009 and all eight lanes were opened on 24 March 2010.

The sea-link reduces travel time between Bandra and Worli during peak hours from 60–90 minutes to 20–30 minutes. As of October 2009, BWSL had an average daily traffic of around 37,500 vehicles.

