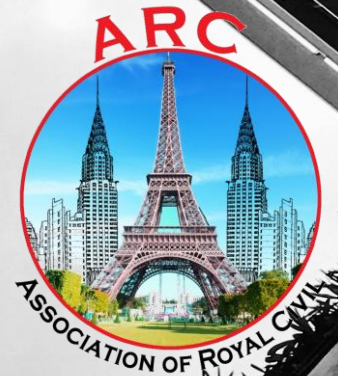


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Principal's Message

Dear Parents and Students,

It is with great pleasure that I welcome you to our College (DIET) Newsletter.

As Principal I am hugely impressed by the commitment of the college and the staff in providing an excellent all-round education for our students with our state of the art facilities. We as a team working together, strongly promote the zeal towards academic achievement among our students. The cultural, sporting and other successes of all our students and staff are also proudly celebrated together.

I congratulate the staff and students who brought latest technologies and concepts onto the day to day teaching learning platform. As long as our ideas are expressed and thoughts kindled we can be sure of learning, as everything begins with an idea.

I appreciate every student who shared the joy of participation in co-curricular and extracurricular activities along with their commitment to curriculum. That little extra we do, is the icing on the cake. 'Do more than belong – participate. Do more than care – help. Do more than believe – practice. Do more than be fair – be kind. Do more than forgive – forget. Do more than dream – work.'

With a long and rewarding history of achievement in education behind us, our DIET community continues to move forward together with confidence, pride and enthusiasm.

I hope you enjoy your visit to the website and should you wish to contact us, please find details at the www.diet.ac.in/



Yours in Education,
Dr. Ravi Kadiyala
Principal



Head of the Department 's Message

Civil Engineering is considered as back bone of nation's development. The Civil Engineering department of DIET, Vijayawada was established in the year 2010 with an intake of 60 and later upgraded to the intake of 120. The Department has been now elevated to its next podium by offering Post Graduation in Environmental Engineering and consultancy services. The Civil Department have excellent infrastructure and state-of-the-art laboratories including Transportation, Fluid Mechanics and Hydraulics, Environmental, GIS and CAD, Structural and Strength of Materials labs, which are well-maintained by technically qualified personnel. Also, department has R&D and consultancy services where several research and consultancy projects were carried on materials testing, designing, planning and execution of several civil projects. Our department strength is our faculty who are devoted to educate our students and strengthen them such that they are ready to serve the nation as professionals, research scholars, academic leaders and entrepreneurs. The department offers concept oriented teaching-learning process coupled with practical knowledge through industry-Institute interaction. Industry personnel are invited to department as adjunct faculties to share their practical experience and knowledge. To enhance the technical and employability skills of our students, the Department encourages the students to undertake internship and in-plant training. Apart from regular curriculum, the department conducts Workshops/Guest Lectures/Industrial Visits for the students to augment their proficiency. The department has a well established mentoring system which provides individual attention to the students in the academic and other activities. The department also encourages its students to engage in extra-curricular and co-curricular activities to nurture their team spirit and develop organizational skills. In addition, the faculty members of the department are promoted to attend/conduct training programmes/FDP's to keep them updated.

Yours in Education,

Dr.G. Vinay Kumar

HOD



NSS NATIONAL SERVICE SCHEME



ON THE EVE OF 5th INTERNATIONAL YOGA DAY 21st JUNE 2019, COLLEGE NSS UNIT ORGANISED YOGA SESSION AT COLLEGE AUDITORIUM PREMISIS, THE SESSION HAVE RECEIVED ENCOURAGING RESPONSE FROM STUDENT.



Almost 50 student volunteers with NSS program officer and staff coordinators have participated in this and made the session fruitful.



THE SESSION WAS HEADED BY Mrs. D. PRASUNA, STATE CO-CONVENER OF INDIAN OAM ASPA & Mr. B. PRABAKARA RAO, M.Sc YOGA RETIRED BANK



At the end of the session student volunteers have asked the yoga remedies for their general health complaints and have learnt that doing yoga regularly improves the brain function, memory, concentration and improves blood circulation.

On the eve of world environment day, NSS cell has collected used books from staff and students on 30/06/2019 which will be recycled to govt school students by IRDA.



FOR ALL THE B. TECH & DOPLOMA STUDENTS, DHANEKULA NSS UNIT HAS ORGANISED AN EYE CHECK-UP CAMP ON 19/07/2019 & 20/07/2019.



PARENTS MEET

The Department of Civil Engineering had conducted a PARENTS MEET on 27 - 07 - 2019 for 2nd, 3rd and 4th year students of CE. The Parents meet was conducted at the CE department seminar hall which is started at 02:00 Pm and completed by 04:30 PM evening. Head of the department Dr. G Vinay Kumar addressed the parents for an hour addressing different activities, policies and procedures following in the department and later parents interacted with the respective class in charges, counsellors and the subject teachers and collected suggestions and feedback forms from parents.



SEMINARS & WORKSHOPS

Seminar on Retrofitting of Structural Elements & Optimization of Mix Design

A Seminar has been conducted by ICI (south zone vijayawada center ICI VJWC) and Ultratech Cement Team on 18.07.2019. The two topics involved in the seminar are Retrofitting of structural elements by wrapping methods and Optimization of mix design using Artificial Neural Network which are very effectively addressed by P.Poluraju (ICI VJWC Chairperson) and G.Hari Krishna (Ultratech member) respectively.

Pre-disaster preparedness strategies lead to repair/retrofitting of reinforced concrete structures for ensuring satisfactory performance during earthquakes. Repair can lead to increased stiffness, strength, and failure deformation. There is a need to quantify the performance of the structure after repair has been carried out. Performance factors using wrapping technique have been suggested for such quantification. These are adequate in certain cases and may not be totally satisfactory in others. If there are inherent weaknesses on detailing in the original structure, it may not be possible to improve the performance to the desired levels. In these cases, the performance factors may depend on the state of deformation considered for evaluation and may not be unique where all these issues has been addressed and clearly explained

Compressive strength of concrete is one of the most important elements for an existing building and a new structure to be built. While obtaining the desired compressive strength of concrete with an appropriate mix and curing conditions for a new structure, with non-destructive testing methods for an existing structure or by taking core samples the concrete compressive strength are determined. One of the most important factors that affects the concrete compressive strength is age of concrete. Estimation of compressive strength, modelling Artificial Neural Networks (ANN) and using different mixture ratios and compressive strength of concrete samples at different ages have been explained clearly.





TECHNICAL TOPICS

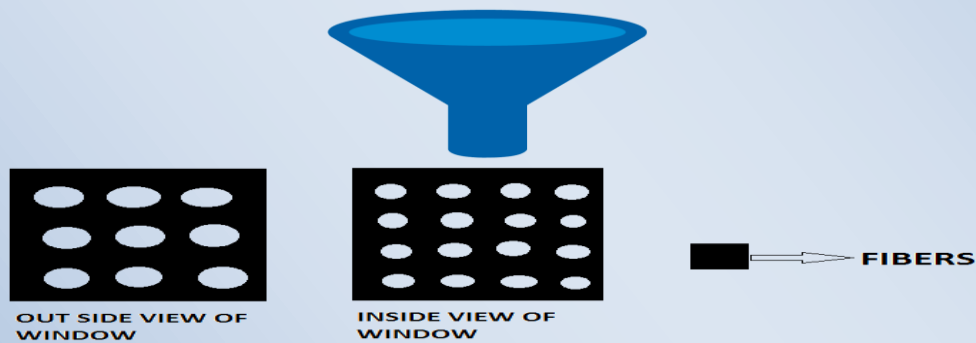


EFFICIENT AIR COOLERS

India is the second largest country in world's population and most part of the country people are living below poverty line. And another biggest catastrophe to our country is, global warming. To escape from heat people are using ac's & coolers who can effort. But the people who cannot effort can use these to escape from heat.

EXPLANATION :

Funnels contains a large opening on one side & a small opening on other side. When we insert these funnels into fibernet & place the whole arrangement near window we get cool air. Because, when hot air enters into large diameter of funnel to small diameter of funnel pressure increases because in small diameter pipes pressure is more. As pressure increases, temperature also increases & the air from small diameter reaches room it is cool because in large diameter i.e.; room pressure decreases obviously temperature decreases.



THEORITICAL PROOF :

According to ideal gas equation:

$$PV=nRT$$

$$P \propto T$$

i.e.; Pressure is directly proportional to temperature. So, as pressure increases temperature increases & pressure decreases temperature also decreases. This is hoe it work.

By:

B. Usha Sri (178T1A0106)

CHINESE BUILD UNBELIEVABLE 350FT WATERFALL ON A SKYSCRAPER

People travel far and wide to view one nature's most spectacular sights, the waterfall. Somebody at Chinese construction company guizho ludiya property management recognized this and thought, "hey, why don't we build a waterfall on the side of our skyscraper?". And so, they created the world's tallest man-made waterfall, and people can't quite decide if it's a good idea or not. There's no denying that it does indeed look spectacular, creating a glorious rainbow in from of the building when the sun is out. But the artificial waterfall, located in the city of guiyang, the capital of guizhou province in southwest china, requires 4 large pumps to lift the recycled water 350ft up before it cascades down the side of the huge building. If faced huge engineering challenges during construction and because of electricity costs, believed to be over \$100 an hour, the waterfall is only in use for special occasion.



A&D spoke to one resident of Guiyang, Tengyu Zhang, to get his take on the unusual new attraction in his city. "Personally, I think it's nice," he told us. "I think it's more for showing the tourism of Guizhou province. Since Huangguoshu waterfall is the most famous waterfall in China and it's located in Guizhou, this one can be like a small ad for that." Many people have reacted negatively to what they perceive as an extremely wasteful vanity project, but Tengyu doesn't agree. "Well, it's not always on. Only if there are some international and important events and then it will be open. Moreover, there are fountains in the park, and light decorations in the modern city. If you really consider the aspect of environment, I guess all those should be closed as well."

Guiyang is experiencing rapid growth as people flock from the other parts of the province to take advantage of the building boom. "Five years ago it was still one of the poorest provinces in China," Tengyu told us. "But now the government wants to build a big data center in Guiyang. So, the economy is developing rapidly. For example, the bases for Apple, Google, and Amazon will be located in Guiyang." Seems like there'll be plenty more creative and crazy skyscrapers to come in Guiyang!.

By:
K. Srimukha (Asst Professor)



संस्कृति

इस संस्कृति



REGARDING **WORLD POPULATION DAY** ON **JULY 11th 2019** UNDER DHANEKULA SAMSKRUTI, EVENTS OF ESSAY WRITING & PAINTING COMPETITIONS WERE HELD FOR ALL THE **II, III, IV B.TECH** STUDENTS FOR THE 1st PHASE OF SELECTION ON **8th, 9th, AND 10th** JULY 2019 DURING ASSOCIATION HOURS AT THE DEPARTMENT LEVEL IN **CIVIL ENGINEERING DEPARTMENT** BY THE ART, LITERARY AND CULTURAL CELL COMMITTEE MEMBER AND FACULTY **Mrs. M. VINEELA**.



THEMES FOR COMPETITIONS

ESSAY WRITING : A time to reflect on Population trends and related issues

PAINTING : Population Growth



LIST OF THE WINNERS (PHASE - I)**Essay Writing**

S.NO	YEAR/SEMIS TER	REGISTERED NO.	NAME OF THE STUDENT	AWARD
1.	II/I-A	188T1A0101	A Sai Lakshmi Chinmayee	I
2.	II/I-A	188T1A0107	B Veera Satya Sai	II
3.	II/I-A	188T1A0144	Y Hema Sri	III
4.	II/I-B	LATERALS	Pavan	I
5.	II/I-B	LATERALS	Bhanu	II
6.	II/I-B	LATERALS	Adarsh	III
7.	III/I-A	178T1A0134	M R Saideepesh	I
8.	III/I-A	178T1A0122	J Praveen Kumar	II
9.	III/I-A	178T1A0141	N Manikya Srikar	III
10.	III/I-B	188T5A0126	L Venkata Jaswanth	I
11.	III/I-B	188T5A0142	Syed Firoz	II
12.	III/I-B	188T5A0125	K Deva Ravi Teja	III

II

Painting

S.NO	YEAR/SEMIS TER	REGISTERED NO.	NAME OF THE STUDENT	AWARD
1.	II/I-A	188T1A0135	P Sai Kiran	I
2.	III/I-A	188T1A0141	T Krishna Vamsi Chowdary	II
3.	III/I-A	188T1A0131	P Ashraf	III
4.	II/I-B	LATERALS	Prem	I
5.	II/I-B	LATERALS	Kiran	II
6.	II/I-B	LATERALS	V.Surendra	III
7.	III/I-A	178T1A0131	K.Harha Vardhan	I
8.	III/I-A	178T1A0154	Sk.Baji	II
9.	III/I-B	188T5A0140	Shaik Abdul Basha	I
10.	III/I-B	188T5A0111	G G Datha Vamsi Kumar	II
11.	III/I-B	188T5A0148	V Sai	III



NCC NATIONAL CADET CORPS



INTERNATIONAL YOGA DAY WAS BEING CELEBRATED SINCE 2015 ON 21 JUNE. AS THE PART SINCE THEN OUR COLLEGE IS BEING PART OF THE CELEBRATIONS. AS THAT THE 2019 YODG DAY CELEBRATIONS WERE HELD ON A LARGE AND GRAND SCALE.



SINCE IT IS NOT CONFINED TO A SINGLE COLLEGE ALL THE UNITS OF NCC IN VIJAYAWADA WERE ASSEMBLED AT MARIS STELLA INDOOR STADIUM AND MADE THE EVENT A SUCCESS.

THE FACULTY FROM "ART OF LIVING" HAD VISITED THE ARENA TO GUIDE THE CADETS TOWARDS THE BENIFITS AND USES OF REGULARPRACTICE OF YOGA AND ALSO MANY STRESS RELIVING EXERSISES WERE



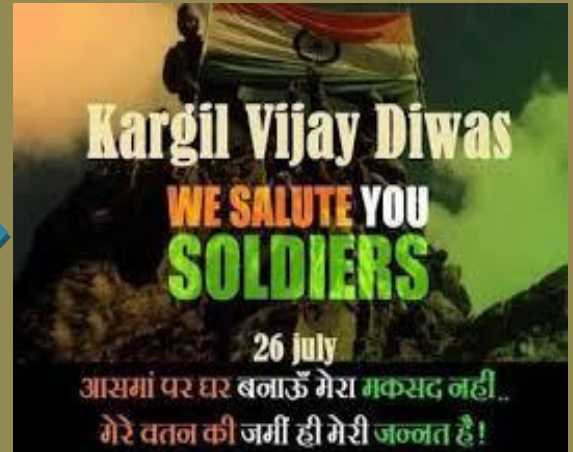
THE TOTAL OF AROUND 1000 CADETS 50PI STAFF ANO'S PARTICIPATED IN THE EVENT.AND LATER ON THE PERSONAL QUARIES OF STUDENTS AND STAFF WERE CLEARED BY THE YOGA INSTRUCTORS.AFTER ALL THE SEGMENTS WERE COMPLETE SOME SPECIAL MEDITATION SHORT CUTS WERE INSTRUCTED.AND ALOS THE IMPORTANCE OF BOTH YOGA AND MEDITATION WERE BEEN TAUGHT TO THE CADETS.

KARGIL VIJAY DIWAS

CELEBRATING 20 OF THE VICTORY ACHIVED

FROM KARGIL WAR

KARGIL VIJAY DIWAS, NAMED AFTER THE SUCCESSFUL OPERATION VIJAY, IS CELEBRATED IN INDIA ON 26 JULY. ON THIS DATE IN 1999 INDIA SUCCESSFULLY TOOK COMMAND OF THE HIGH OUTPOST WHICH HAD BEEN LOST TO PAKISTAN.



THE NCC BATTALION'S IN VIJAYAWADA GOT UNITED NEAR ANDHRA LOYALA COLLEGE AND A RALLY HAS BEEN CONDUCTED FROM LOYALA COLLEGE TO St. JHON'S PUBLIC SCHOOL GUNADALA.



THE TOTAL OF 700 CADETS ALONG WITH PI STAFF AND OTHER REGIONAL DEFENCE ORGANIZATIONS HAVE VISITED THE REGION AND PARTICIPATED IN THE RALLY AND MADE IT A HUGE SUCCESS. GIVEN A SPEECH



SEMESTER TOPPERS



K. NAGA POOJITHA
158T1A0108
PERCENTAGE: 86.17

First

IV-II SEM
TOPPERS FOR
AY 2018-19

Second



M. HEMALATHA
158T1A0127
PERCENTAGE: 83



CH. PRAKHYA
168T1A0116
SGPA : 9.19

First

III-II SEM
TOPPERS FOR
AY 2018-19

Second



M. RAVI CHANDRA REDDY
168T1A0147
SGPA : 9.05

First

II-II SEM
TOPPERS FOR
AY 2018-19

First

Second



B. NIHARIKA
178T1A0105
SGPA : 9.05



P. THANUSHA
178T1A0146
SGPA : 9.05



K. PARAM JYOTHI BABU
188T5A0117
SGPA : 8.82