

ABOUT CIVIL DEPT

The Department of Civil Engineering at Aditya transfers innovative applications to improve Civil Engineering practices which fulfil the requirements of the civil construction industry. To face the challenges in the field, the department associates itself in different consultancy activities like quality control, design, detailing, soil testing and concrete testing to the construction sites in the close vicinity. To shore up the transition of knowledge, eminent personnel from industry and academia are invited to deliver technical talks on emerging keep the students abreast with the latest advancements. The department has state-of-the-art facilities, latest software like STAAD Pro, AUTOCAD, Revit Structures, Robot Structure analysis etc. and well-equipped laboratories with costly equipment such as Total Station, Universal Testing Machine, Tri-axle Shear Testing Machine, Kaplan turbine, Francis turbine, Pelton wheel testing rig, Compression testing machine, Ultrasonic pulse velocity equipment etc. The department offers unique internship opportunities to students in companies like L&T Construction, Reliance Industries Limited, OIL, Irrigation Department, Govt. of A.P., Soma Constructions, APCO Infra tech, Vizag Steel Plant etc.

Vision of the Department

To be a recognized center in Civil Engineering with values and innovation.

Mission of the Department

Mission 1:

Practice learner-centric quality teaching learning process abreast with changing industry needs and societal challenges

Mission 2:

Provide quality infrastructure towards academics, research and innovation

Mission 3:

Establish effective industry and institutional collaboration

Faculty Publications in International Journals/Conferences

- [Journald/ Comercial		
	SI. No.	Authors	Title of the research paper	Name of the journal/conf erence/book chapter etc.	Year of publicatio n
	1	Sumit Choudhary Mukund	Sustainable Production of Concrete using Rice Husk Ash and Steel Fibers and Steel Fibers: Durability Properties	Journal of Critical Review	2022
	2	P. Ravi Kishore	Sustainable Production of Concrete using Ceramic Tile Powder and Steel Fibers: Durability Properties	Journal of Critical Review	2022
	3	Dr.G.Jaswa nth	probabilistic models for reinforced concrete slabs subject to missile impact based on experimental and numerical outcomes	Journal of Critical Review	2022
	4	Dr. S.Govindar ajan	Experimental study on alkali resistant glass fibre reinforced concrete	Journal of Critical Review	2022
	5	G. Krishna Kanth	Experimental study on Bamboo Reinforced Concrete	Journal of Critical Review	2022

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	6	P. Ravi Kishore	Valorization of ceramic waste and steel fibers in the production of concrete: a mechanical approach	Journal of Critical Review	2022
	7	P.Urmila	Influence of Graphite Powder on Strength& Durability properties of Cement mortor	Journal of Critical Review	2022
	8	K.P. Prajna Bharathi	Comparative Study of Partially Wrapped RC Beams at 9Different Spacings	Journal of Critical Review	2022
	9	Dr.Sumit Choudhary Mukund	Sustainable Production of Concrete using Rice Husk Ash and Steel Fibers: Mechanical Parameters	Journal of Critical Review	2022
	10	Dr. S.Govindarajan	Experimental and analytical study of basalt fibre reinforced concrete	Journal of Critical Review	2022

PLACEMENT DETAILS

S.					
No	Roll Number	Name of the Student	Designation	Name of the company	Salary Package
1	19A95A0120	Pratyusha Manepalli	Trainee	Qspiders	1.20 LPA
2	18A91A0113	Gandham Venkatesh Prasad	Graduate Engineer Trainee	SDVVL	2.50 LPA
3	18A91A0118	Koduri Prasad	Graduate Engineer Trainee	SDVVL	2.00 LPA
4	18A91A0159	Badiganti Markandeya Maharshi	Graduate Engineer Trainee	SDVVL	2.20 LPA
5	18A91A0164	Chappa Sukendra	Graduate Engineer Trainee	SDVVL	1.80 LPA
6	18A91A0166	Davesh Rai	Graduate Engineer Trainee	SDVVL	2.50 LPA
7	18A91A0158	Baddi Bhupathi Raja Durga Prasad	Assistant System Engineeer - Trainee	TCS Ninja	3.36 LPA
8	18A91A0111	Degala Venkatesh	Site Engineer	Vishwanadh Avenues	1.80 LPA
9	Kesavarapu Rama Krishna Surya Vamsi		Site Engineer	Vishwanadh Avenues	1.80 LPA
10	18A91A0119 Kola Karunakar Sai		Site Engineer	Vishwanadh Avenues	1.80 LPA

11	18A91A0139	Prathipati Hemanth	Site Engineer	Vishwanadh Avenues	1.80 LPA
12	18 <mark>A91A0</mark> 184	Marothi Leena	Site Engineer	Vishwanadh Avenues	1.80 LPA
13	19A95A0104	Chintalapudi Bhagya Lakshmi	Site Engineer	Vishwanadh Avenues	1.80 LPA
14	19A95A0109	Nalla Sairam	Site Engineer	Vishwanadh Avenues	1.80 LPA
15	19A95A0111	Pachipulusu Dinakar	Site Engineer	Vishwanadh Avenues	1.80 LPA
16	18A91A0114	Gubbala Bindu Priya	Project Engineer	Wipro	3.75 LPA
17	18A91A0122	Bhanu Prakash Korlepara	Project Engineer	Wipro	3.75 LPA
18	18A91A0125	Machana Devi Mahesh	Project Engineer	Wipro	3.75 LPA
19	18A91A0138	Penumala Likhitha	Project Engineer	Wipro	3.75 LPA
20	18A91A0151	Yarra Yamini	Project Engineer	Wipro	3.75 LPA
21	18A91A0167	Deepika Bantu	Project Engineer	Wipro	3.75 LPA
			9		

	22	18A91A0191	Pampana Hem Prabhakar	Project Engineer	Wipro	3.75 LPA
	23	18 <mark>A91A01</mark> 93	Potnuri Sai Divya	Project Engineer	Wipro	3.75 LPA
	24	18A91A01A4	Jahnavi Sesha Sai Yallabandi	Project Engineer	Wipro	3.75 LPA
	25	18A91A01A6	Dipesh Kumar Mandal	Project Engineer	Wipro	3.75 LPA
	26	18A91A01A7	Anil Kumar Mandal	Project Engineer	Wipro	3.75 LPA
	27	18A91A01A9	Aditya Kumar Tara	Project Engineer	Wipro	3.75 LPA
	28	18A91A01B1	Bikash Singh Yadav	Project Engineer	Wipro	3.75 LPA
	29	18A91A01B2	Irfan Ansari	Project Engineer	Wipro	3.75 LPA
	30	19A95A0106	Venkata Naga Teja Dondapati	Project Engineer	Wipro	3.75 LPA
•	31	19A95A0108	Thirupathi Raidu Mathsa	Project Engineer	Wipro	3.75 LPA
	32	19A95A0128	Tatavarthi VSRSSai Kiran	Project Engineer	Wipro	3.75 LPA

33	18A91A01 5	Shaik 4 Mounuddin Haneef Mukthar	Business Development Trainee	Zelf Studie	6.00 LPA
34	18a91a018	K.Jagadeesh Chandu	Business Development Trainee	Zelf Studie	6.00 LPA
35	19A95A0 3	Swaroopa Rani Thorlapati	Business Development Trainee	Zelf Studie	6.00 LPA



Congratulations 2.0 LPA



G. VENKATESH PRASAD 18A91A0113



K. PRASAD 18A91A0118



B. M.M. MAHARSHI 18A91A0159



CH. SUKENDRA 18A91A0164



DAVESH RAI 18A91A0166



Congratulations

Zelf Studie

6.0 LPA



SK.K. HANEEFMUKTHAR 18A91A0145



K.J. CHANDU 18A91A0180



T. SWAROOPA RANI 19A95A0113



A DITYA

E NGINEERING **C** OLLEGE

Congratulations

3.36 LPA



CONSULTANCY SERVICES



B.B. RAJA DURGA PRASAD 18A91A0158



Congratulations

1.80 LPA



Vishwanadh Group

Avenues • Architects • Resorts • Marine Beachfront • Entertainment • Agros • Trading



B. SAISRIDEVI 18A91A0102



18A91A0109



CH. VIJAYA LAKSHMI 18A91A0110



18A91A0121



N. WINBABU 18A91A0133



K. SWATHI SRI DEVI 18A91A0146



KOMMANAMAN CHIANIRUDH 18A91A0175



18A91A0177



A DITYA

E NGINEERING

C OLLEGE

Congratulations
1.2 LPA





M. PRATYUSHA 19A95A0120

STUDENTS ACTIVITIES

Students Awards/Achievements

SI. No.	Name of the students	Name of the event	Topic	Venue	Date	Award/R eward
1	Etti Tejaswi Gandi Yaswanth	IDEATHON 2022	ldea Presentation Competition	Bannari Amman Institute of Technology, Tamil Nadu	18th Februar y 2022	1st WinneR
2	V Veera Venkata Durga Prasad	Vishwayojana Fiesta 2K22	Role of fly ash in construction	Sanskrithi School of Engineering, Puttaparthi, Andhra Pradesh	6th - 7th May 2022	1st Winner
3	Ankam Durgamba Manepalli Pratyusha	VISVOTSAV 2K22	Technical Quiz (Online)	Visvodaya Technical Academy, Andhra Pradesh	21st May 2022	2nd Winner

STUDENTS PARTICIPATION IN VARIOUS EVENTS

S.No	Name of the student	Name of the event	Topic	Venue	Date
		The second			
	Caladi Cai Kvishna	VICUOTE AV 2K22		Visvodaya	21st
1.	Saladi Sai Krishna	VISVOTSAV 2K22	Geotechnical	Technical Academy, Andhra Pradesh	May 2022
	Danie subhi Mari Inde	7.00	Characterizat	Visvodaya	21st
2.	Pamarthi Venkata Naga Saibabu	VISVOTSAV 2K22	ion of Copper Slag towards	reclinical Academy,	May
	0		Civil	Andhra Pradesh	2022
			Engineering Construction	Visvodaya	21st
3.	Mandarapu Sri Santosh	VISVOTSAV 2K22	S	Technical Academy,	May
	Santosn			Andhra Pradesh	2022
			Strength and		
4.	Thoram Rajasri	VISVOTSAV 2K22	sorpitivity of	Visvodaya Technical Academy,	21st May
7	Tiloraili Kajasii	VISVOTSAV ZRZZ	geo polymer concrete	Andhra Pradesh	2022
		-	Concrete	-0.000	-
	Vadla Vagna		Strength and	Visvodaya	21st
5.	Yadla Yagna Prasad	VISVOTSAV 2K22	sorpitivity of geo polymer	Technical Academy,	May
4			concrete	Andhra Pradesh	2022
					7.1
730	V Veera Venkata	Vishwayojana		Sanskrithi School of Engineering,	6th - 7th
6.	Durga Prasad	Fiesta 2K22	Dala of fly	Puttaparthi,	May
			Role of fly ash in	Andhra Pradesh	2022
	Tiguti	Vichwayeiana	construction	Sanskrithi School of	6th -
7.	Tiguti Durgambika	Vishwayojana Fiesta 2K22		Engineering, Puttaparthi,	7th May
	3			Andhra Pradesh	2022

8.	Chelluri Umasankar Swamy Anil	Vishwayojana Fiesta 2K22	Construction Challenge of Bridges in	Sanskrithi School of Engineering, Puttaparthi, Andhra Pradesh Sanskrithi School of	6th - 7th May 2022
9.	Simhadri Durga Prasad	Vishwayojana Fiesta 2K22	Hilly Area	Engineering, Puttaparthi, Andhra Pradesh	6th - 7th
10.	Kankanala Manohar	Vishwayojana Fiesta 2K22	Impact of Covid-19 on	Sanskrithi School of Engineering, Puttaparthi, Andhra Pradesh	6th - 7th
11.	Kola Suryadeep	Vishwayojana Fiesta 2K22	Civil Engineering	Sanskrithi School of Engineering, Puttaparthi, Andhra Pradesh	6th - 7th
12.	Vinnakot Yaswanth Reddy	Vishwayojana Fiesta 2K22	Use of recycled Waste	Sanskrithi School of Engineering, Puttaparthi, Andhra Pradesh	6th - 7th
13.	Neelapu Phaninddra	Vishwayojana Fiesta 2K22	Material in Road Construction	Sanskrithi School of Engineering, Puttaparthi, Andhra Pradesh	6th - 7th
14.	Golla Rudra Sai	IDEATHON 2022	Noise Control of Buildings	Bannari Amman Institute of Technology, Tamil Nadu	18th February 2022
15.	Batchu Srinu	IDEATHON 2022	Noise Control of Buildings	Bannari Amman Institute of Technology, Tamil Nadu	18th February 2022
16.	Nagulapalli J V V S S L Vigneswar	IDEATHON 2022	Noise Control of Buildings	Bannari Amman Institute of Technology, Tamil Nadu	18th February 2022
17.	Ankam Durgamba	VISVOTSAV 2K22	Technical Quiz(Online)	Visvodaya Technical Academy, Andhra Pradesh	21st May 2022

18.	Manepalli Pratyusha	VISVOTSAV 2K22	Technical Quiz(Onlin e)	Visvodaya Technical Academy, Andhra Pradesh	21st May 2022
19.	Bandi Sai Prasad	VISVOTSAV 2K22	Virtual Activity	Visvodaya Technical Academy, Andhra Pradesh	21st May 2022
20.	Dondapati Venkata Naga Teja	VISVOTSAV 2K22	Virtual Activity	Visvodaya Technical Academy, Andhra Pradesh	21st May 2022
21.	Yehoshuva Dasari	VISVOTSAV 2K22	Virtual Activity	Visvodaya Technical Academy, Andhra Pradesh	21st May 2022
22.	Kurakula Jagadeesh Chandu	Vishwayojana Fiesta 2K22	STRUQTA (Online)	Sanskrithi School of Engineering, Puttaparthi, Andhra Pradesh	6th - 7th May 2022
23.	Sadhanala Gangadhar Sai Nagesh	Vishwayojana Fiesta 2K22	STRUQTA (Online)	Sanskrithi School of Engineering, Puttaparthi, Andhra Pradesh	6th - 7th May 2022
24.	Mani Kranthi	Vishwayojana Fiesta 2K22	Techno connectz	Sanskrithi School of Engineering, Puttaparthi, Andhra Pradesh	6th - 7th May 2022
25.	Kollati Satya Uday Kiran	Vishwayojana Fiesta 2K22	Techno connectz	Sanskrithi School of Engineering, Puttaparthi, Andhra Pradesh	6th - 7th May 2022
26.	Ramavath Ravi Naik	Vishwayojana Fiesta 2K22	Techno Quiz (Online)	Sanskrithi School of Engineering, Puttaparthi, Andhra Pradesh	6th - 7th May 2022
27.	Kundrapu Harshavardhan	Vishwayojana Fiesta 2K22	Techno Quiz (Online)	Sanskrithi School of Engineering, Puttaparthi, Andhra Pradesh	6th - 7th May 2022

28.	Etti Tejaswi	IDEATHON 2022	Idea Presentation Competition	Bannari Amman Institute of Technology, Tamil Nadu	18th February 2022			
29.	Gandi Yaswanth	IDEATHON 2022	Idea Presentation Competition	Bannari Amman Institute of Technology, Tamil Nadu	18th February 2022			
30.	G Sesha Kanaka Siva Ganesh Saimanik	IDEATHON 2022	Idea Presentation Competition	Bannari Amman Institute of Technology, Tamil Nadu	18th February 2022			
31.	Kotha Madhav Charan	IDEATHON 2022	Technical Quiz	Bannari Amman Institute of Technology, Tamil Nadu	18th February 2022			
32.	Kukkala Chandrarjun	IDEATHON 2022	Technical Quiz	Bannari Amman Institute of Technology, Tamil Nadu	18th February 2022			

Students publications in conferences

	Project	t Batch Members		
SI.No	Regd. No	Name of the Student	Project Title	Guide Name
	19A95A0109	Nalla Sairam		
_6	18A91A0139	Prathipati Hemanth		
1	19A95A0106	Dondapati Venkata Naga Teja	A comprehensive study on energy harvesting from roads	Guthula Swathi
	18A91A0133	Nookatati Winbabu		
	18A91A0130	Nallam Prathyusha		9
5	19A95A0114	Ankam Durgamba		
	19A95A0116	Golla Rudra Sai		
2	18A91A0165	Dasam Naga Chakradhar	A comparative analysis of roundabouts in Kakinada city	N.Anil Kumar
	18A91A0189	Naraharisetti Satya Veerendra		
	18A91A01A2	Varri Shanmukha		

	18A91A0192	Penumalla Lavanya		
	19A95A0126	Mohammed Sajid Ur Rehman		
3	19A95A0125	Batchu Srinu	P. Urmila	Dr.B. Rama Mohan Reddy
	18A91A0155	Ajay Kumar Ray		
	18A91A0177	Koppu Akhil		
	18A91A0191	Pampana Hem Prabhakar	Biopolymer	
4	18A91A0170	Garapati Bhuvana Sri	treated sustainable soil blocks - an earthen	Dr. S.Anandha Kumar
	18A91A0175	Kommanamanchi Anirudh	construction material	
	18A91A0171	Gollapalli Harsha Vardhan		

STUDENTS PUBLICATIONS IN JOURNALS

SI.No Regd. No Name of the Student Project Title 19A95A0120 Manepalli Pratyusha 18A91A01B2 Irfan Ansari Effective replacement of cement with ceramic tile	P. Ravi Kishore
18A91A01B2 Irfan Ansari Effective replacement of cement with	P. Ravi Kishore
replacement of cement with	P. Ravi Kishore
18A91A01A7 Anil Kumar Mandal ceramic tile	
powder and	
18A91A0176 Konatham Akhil fibers	
18A91A0180 Kurakula Jagadeesh Chandu	
18A91A0167 Deepika Bantu	
19A95A0127 Narava Mohan Influence of	
2 18A91A0164 Chappa Sukendra Graphite Powdo on Strength& Durability properties of	
Jonnalagadda Dhanush Vikram Cement morto	r
18A91A0172 Gorre Sandeep Reddy	

	18A91A01A4	Jahnavi Sesha Sai Yallabandi		
	19A95A0118	Korupalli Satya Durga		
3	18A91A0160	Baligodugula Ajay Shankar	Strengthening of RC beams using glass fiber reinforced polymer	K.P. Prajna Bharathi
	18A91A01A0	Undrasapu Teja		
	18A91A01A5	Yandra Pavan Sai Krishna		
	19A95A0121	Matta Hemanth		
4	18A91A01B1	Bikash Singh Yadav	Usage of Rice Husk Ash and Steel fibers in the	Dr. Sumit Choudhary
	18A91A0194	Puvvala Bhanu	production of Concrete	Mukund
	18A91A0199	Thota Venkata Suryanarayana		

	19A95A0115	Chilaka Ruha Rani		
	18A91A0158	Baddi Bhupathi Raja Durga Prasad		
5	18A91A0163	Borra Kalki	Experimental and analytical study of basalt fiber reinforced concrete	Dr. S. Govindarajan
	18A91A01A6	Dipesh Kumar Mandal		
	18A91A0186	Nagulapalli J V V S S L Vigneswar		

FACULTY DEVELOPMENT PROGRAMME (FDP) – ORGANIZED

S. No	Name of the FDP	Name of the faculty Coordinator	Dates/Dura tion	Resource Person Details	No. of Students
1	Scientifi c paper writing, journal selection and patent drafting.	Dr. S Pachaiappan	06-12-2021 to 11-12-2021 Days	Dr. Ch. Venkatesh, CVR College of Engineering, Hyderabad. Dr. Ch. Surya Prakash, K.L. University, Guntur.	68

CONFERENCES, \SEMINARSAND WORKSHOPS – ORGANIZED

			Name of			
SI.	Type of	Title of	the	Resource Person	Dates	No.of
No.	Event	Event	Coordinator	Details		Students
					•	
100	-	-	7.00			-
400	C 466 3	Research		Dr.		
		overview on	C	Ashwin Raut,	06.10	100
1	Seminar	geopolymer	Goutham Valloju	Associate professor, KL	06-12- 2021	26
		concrete	ranoje	University,	202.	
100		technology	The state of	Vijayawada.		
		Applications		Dr. R. Annadurai, Professor,		
		of Membrane	100	Department of		
2	Seminar	technology in	Goutham	Civil	19-01-	40
		waste water management	Valloju	Engineering, SRM University, Chennai.	2022	
		Applications				
THE		of Remote				
		sensing and				
		'ArcGIS' in identification	Dr. S.	Dr. Ch. Kannam Naidu, Assistant	21-02- 2022 to	
3	Worksho	of potential	Anandha	professor, SIET,	24-02-	35
	Р	zones for	Kumar	Amalapuram	2022	
		artificial				
		recharge		3		

SEMINARS AND WORKSHOPS – ATTENDED

S. No.	Name of the faculty	Name of the Event	Name of the organizer	Place/ Location	Dates
1	P. Ravi Kishore	Works hop	IIT Madras	Aditya Engg College, Surampalem	Dec 2021
2	S. Pachaiappan	Works hop	IIT Madras	Aditya Engg College, Surampalem	Dec 2021

INVITED LECTURES

SI. No.	Name of the faculty	Name of the event	Name of the topic addressed/ delivered	Date	Invited Organizatio n/ institute
1	Dr. S. Govindarajan	Short Term Course	Structural elements design using IS:456- 2000	25/0 1/202 2	BTR Constructio, Madurai, Tamilnadu.

B.T.R CONSTRUCTION

(Registered by MSME)

CERTIFICATE OF APPRECIATION

This is to certify that awarded to **Dr. S.GOVINDARAJAN** Professor in Civil Engineering Aditya Engineering College Andhra Pradesh. In recognition of his valuable presentation as a resource person in the STTP on Emerging Trends in Civil Engineering on 24.01.2022 - 29.01.2022 organized by BTR Construction, Erode.

We wish you all the best for your future endeavours!!

Er.R.Udhyasankar,M.E

Managing Director
B.T.R Construction, Erode

INVITED LECTURES

SI. No.	Name of the faculty	Name of the event	Name of the topic addressed/ delivered	Date	Invited Organizatio n/ institute
1	Dr. S. Govindarajan	Short Term Course	Structural elements design using IS:456- 2000	25/01 /2022	BTR Constructio, Madurai, Tamilnadu.

STUDENTS ARTICLES

Artificial Intelligence



Today, the amount of data that is generated, by both humans and machines, far outpaces humans' ability to absorb, interpret, and make complex decisions based on that data. Artificial intelligence forms the basis for all computer learning and is the future of all complex decision making. Artificial intelligence (AI) is a wide-ranging branch of computer science concerned with building smart machines capable of performing tasks that typically require human intelligence. The applications of AI can be seen in everyday scenarios such as financial services fraud detection, retail purchase predictions, and online customer support interactions. More advanced Al engines are employed to monitor and detect fraudulent payment card transactions in real time. When a person initiates dialog on a webpage via chat (chatbot), the person is often interacting with a computer running specialized Al.Advancements in Al for applications like natural language processing (NLP) and computer vision (CV) are helping industries like financial services, healthcare, and automotive accelerate innovation, improve customer experience, and reduce costs. Gartner estimates that up to 70% of people will interact with conversational Al platforms on a daily basis by the year 2023. Artificial intelligence allows machines to model, and even improve upon, the capabilities of the human mind. From the development of self-driving cars to the proliferation of smart assistants like Siri and Alexa.



Nearly 86% of the mistakes can be prevented in the healthcare industry and AI will play a vital role in this. From driverless cars to voice automation in homes, artificial intelligence has progressed rapidly and is no longer just a concept from sci-fi movies and books. According to a research by scientists at the University of Oxford, Artificial Intelligence will be better than humans at translating languages by 2024, writing school essays by 2026, selling goods by 2031, write a bestselling book by 2049, and conducting surgeries by 2053. As a result, many tech companies across various industries are investing in artificially intelligent technologies.

Parimi Joshna Vinaya Teju

STUDENTS ARTICLES

Exploiting renewable energy sources

Picture showing different types of renewable energy

Growing concern over the world's everincreasing energy needs and the prospect of rapidly dwindling reserves of oil, natural gas, and uranium fuel have prompted efforts to develop viable alternative energy sources. Gasoline engines and steam-turbine power plants that burn coal or natural gas emit substantial amounts of sulfur dioxide and nitrogen oxides into the atmosphere. When these gases combine with atmospheric water vapour, they form sulfuric acid and nitric acids, giving rise to highly acidic precipitation. The combustion of fossil fuels also releases carbon dioxide. The amount of this gas in the atmosphere has steadily risen as a result of the growing consumption of coal, oil, and natural gas.

Renewable energy creates more jobs for women than fossil fuels, According to the International Renewable Energy Agency (IRENA)'s 2020 Annual Review, 32 per cent of the global renewables workforce is female, compared to just 21 per cent in fossil fuel sectors.

More and more scientists believe that the atmospheric buildup of carbon dioxide (along with that of other industrial gases such as methane and chlorofluorocarbons) may induce a greenhouse effect, raising the surface temperature of the Earth by increasing the amount of heat trapped in the lower atmosphere. This condition could bring about climatic changes with serious repercussions for natural and



Many countries have initiated programs to develop renewable energy technologies that would enable them to reduce fossilfuel consumption and problems. Technologies that are being actively pursued are those designed to make wider and more efficient use of the energy in sunlight, wind, moving water, and terrestrial heat (i.e., geothermal energy). The amount of energy in such renewable and virtually pollution-free sources is large in relation to world energy needs, yet at the present time only a small portion of it can be converted to electric power at reasonable cost.

A variety of devices and systems has been created to better trap the energy in sunlight. Among the most efficient are photovoltaic systems that transform radiant energy from the Sun directly into electricity by means of silicon or gallium arsenide solar cells. Large arrays. consisting of thousands of these semiconductor cells can function as central power stations. Other systems, which are still under development, are designed to concentrate solar radiation to generate electric power. These systems employ a number of different components, including flat-plate solar collectors to provide heating for commercial buildings.

Although wind is intermittent and diffuse contains tremendous amounts of energia Wind turbines have been developed convert this energy to electric power. T utilization of wind energy systems gre rapidly. Converting the energy in movi water to electricity has been a lor standing technology. Yet, hydroelect power plants are estimated to provide of less amount of the world's ener requirements. The technology involved simple enough: hydraulic turbines chan the energy of fast-flowing or falling wa into mechanical energy that drives pow generators, which produce electrici Hydroelectric power plants, however generally require the building of cos dams. Factor that limits the increase hydroelectric power production is t scarcity of suitable sites for addition installations except in certain regions the world.

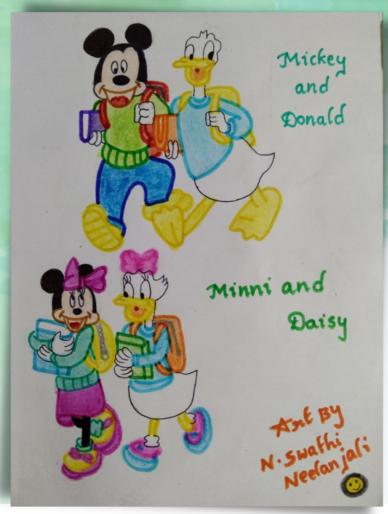
In certain coastal areas of the wo hydraulic turbine-generator units ha been used to harness the great amount energy in ocean tides.

DHEERAJ SARAKANAM

PENCILE ARTS







EDITORIAL BOARD

FACULTY

Mr. Pilla Ravi Kishore, Asst. Professor & HOD

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STUDENTS

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G.Y. Sudha Madhavi, III B. Tech

M. Ram Sandeep, III B. Tech

A. Sai Aditya, III B. Tech