MITS MADANAPALLE | MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE
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A Report on Industrial Visit to Kalyani Dam on 12th October 2025

Submitted by: Mr. Veeresh B Assistant Professor, Department of Civil Engineering, Madanapalle Institute of Technology & Science.

Organised in Association with: ASCE Student Chapter in Collaboration with IIIC.

Introduction:

Kalyani Dam is an important water source located near Tirupati in the Seshachalam hills of Andhra Pradesh. It was built in 1977 across the Swarnamukhi River to supply drinking water to Tirupati city and nearby areas. The dam is surrounded by hills, forests, and a peaceful natural environment, which also makes it a popular place for visitors.

The dam receives water from a catchment area of 48.56 square kilometres, and the region gets good rainfall, including a maximum daily rainfall of 7 inches and a maximum monthly rainfall of 30 inches. Because of this, the dam gets enough inflow to store water throughout the year. It can also handle very large floods, with a maximum flood discharge capacity of 31,200 cusecs, which helps protect the downstream areas during heavy rains.

Kalyani Dam can store a large amount of water, with its Full Reservoir Level at 900 feet. The spillway crest level is 875 feet, and the top of the road on the dam is 922 feet. It has 10.5 TMC of dead storage and 5.65 TMC of usable water storage. The spillway has four big radial gates (40 ft × 25 ft), which can release up to 27,500 cusecs of water when needed. The maximum height of the dam structure is 120 feet, and the total length is 1,400 feet.

Water for the city is taken from the dam through an intake point located between 860 and 890 feet, ensuring continuous water supply for Tirupati. Because of its strong design, large storage capacity, and reliable rainfall, Kalyani Dam acts as a lifeline for the people of Tirupati. It helps in drinking water supply, irrigation, flood control, and also supports tourism due to its beautiful surroundings.

Objective of the Visit:

The objective of visiting Kalyani Dam is to explore and document the importance of its construction and its crucial role in supplying water to Tirupati and surrounding areas. During the visit, you will examine the origins of the dam, its purpose in regional development, and how it has supported the city's growing needs over the years. The study also includes understanding the engineering features of the dam and the historical background of the region in which it was built.

Additionally, this visit will help you assess the current condition of Kalyani Dam, including maintenance practices, storage levels, safety measures, and the steps taken by the authorities to preserve the structure.

Overall Program:

The group left MITS College at 7:00 AM and reached the destination at 9:30 AM. Dr. Sudheer Kumar Y, Associate Professor has discussed about the Kalyani dam like historical and importance of the Kalyani dam. With reference to this Objective, the department of Civil Engineering, MITS, Madanapalle, organized an Industrial Visit for the 2^{nd} ,3^{rd} and 4^{th} year students to the Kalyani Dam which is a tributary of Swarnamukhi River under ASCE Student Chapter in Collaboration with IIIC.

Total 41 Students from 2^{nd} year, 45 students from 3^{rd} year and 6 Students from 4^{th} year Civil engineering from MITS, Madanapalle along with five faculty members. The Visit was more interactive with effective Learning and the students were made to understand the importance

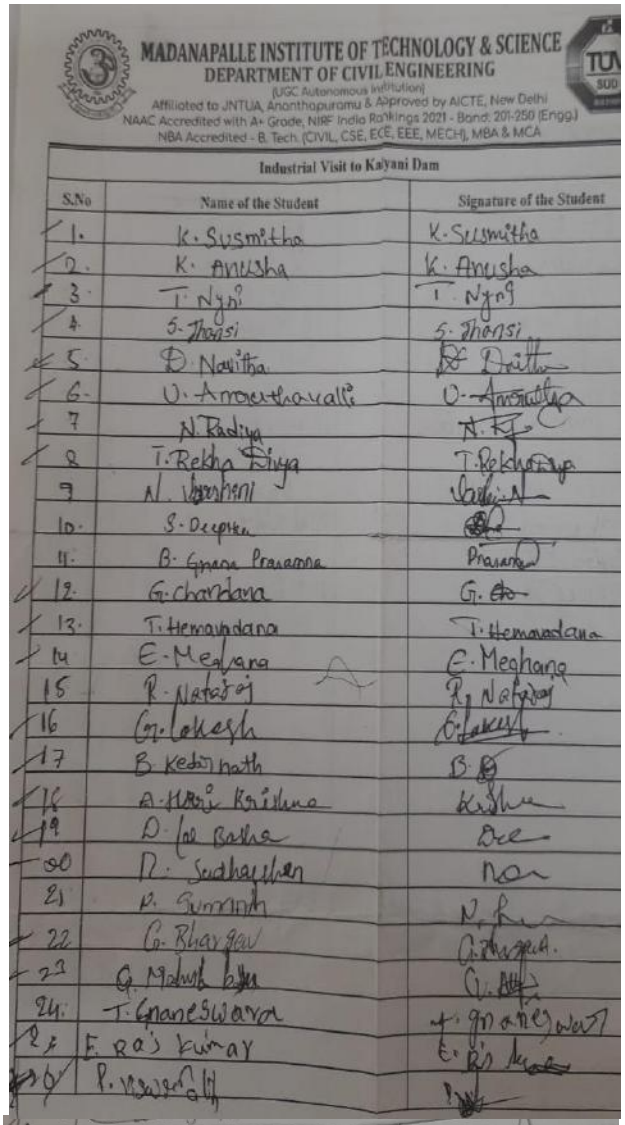
of construction of Pincha dam and disaster occurred in 2021. The Industrial visit finished at 3:00 PM and Students returned back to MITS Collage at 5:30PM on same day.

PO's Covered: PO, PO3, PO6, PO7, PO8, PO9, v PO10 & PO12.

SDG's: 6, 911, 13 & 15.

Photos:

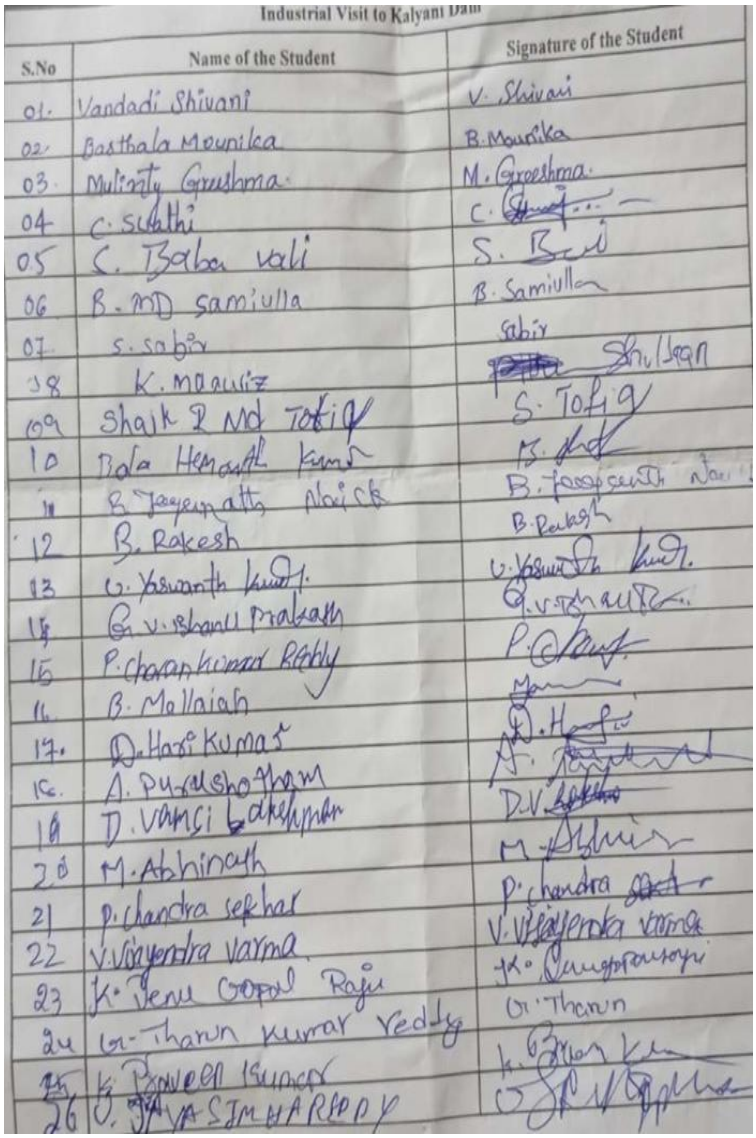
Attendance:



MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE
DEPARTMENT OF CIVIL ENGINEERING
(UGC Autonomous Institution)
Affiliated to JNTUA, Anantapuramu & Approved by AICTE, New Delhi
NAAC Accredited with A+ Grade, NIRF India Rankings 2021 - Band: 201-250 (Engg.)
NBA Accredited - B. Tech. (CIVIL, CSE, ECE, EEE, MECH), MBA & MCA

Industrial Visit to Kalyani Dam

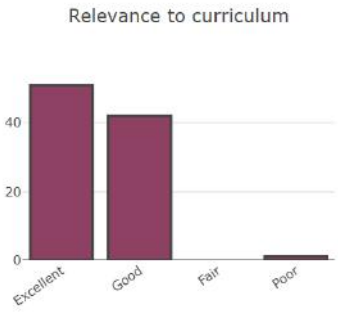
S.No	Name of the Student	Signature of the Student
1.	K. Susmitha	K. Susmitha
2.	K. Anusha	K. Anusha
3.	T. Nyni	T. Nyni
4.	S. Jhansi	S. Jhansi
5.	D. Navitha	D. Navitha
6.	V. Amarthavalli	V. Amarthavalli
7	N. Radiya	N. Radiya
8	T. Rekha Divya	T. Rekha Divya
9	N. Vanthini	N. Vanthini
10.	S. Deepika	S. Deepika
11.	B. Gnana Prasanna	B. Gnana Prasanna
12.	G. Chandana	G. Chandana
13.	T. Hemavardana	T. Hemavardana
14	E. Meghana	E. Meghana
15	R. Nataraj	R. Nataraj
16	G. Lokesh	G. Lokesh
17	B. Kedarnath	B. Kedarnath
18	A. Hari Krishna	A. Hari Krishna
19	D. Jai Babu	D. Jai Babu
20	R. Sudharshan	R. Sudharshan
21	N. Sumanth	N. Sumanth
22	G. Bhargav	G. Bhargav
23	G. Mahesh babu	G. Mahesh babu
24.	T. Gnaneswara	T. Gnaneswara
25	E. Raj Kumar	E. Raj Kumar
26	P. Vasavi	P. Vasavi
27	N. Siva Kumar	N. Siva Kumar
28	P. Aslam	P. Aslam
29.	V. Chinna Nagaraju	V. Chinna Nagaraju
30	A. Hailash	A. Hailash
31	K. Kiran	K. Kiran
32	S. Syedshavali	S. Syedshavali
33	P. Daniel Prem	P. Daniel Prem
34	R. Sudersan	R. Sudersan
35	K. Prashanth	K. Prashanth
36	B. Rakshitha	B. Rakshitha
37	S. Mahammad Saif	S. Mahammad Saif
38.	S. Raja Sekhar	S. Raja Sekhar
39.	R. Mano Narasimha	R. Mano Narasimha
40	Y. Tharun Sai	Y. Tharun Sai
41	S. Praveen Kumar Reddy	S. Praveen Kumar Reddy
42	P. Mohammed Thoufiq	P. Md. Thufiq.
43	V. Sreehari Reddy.	V. Sreehari Reddy
44	P. Mallikarjuna	P. Mallikarjuna
45	K. TEJA	K. Teja



Industrial Visit to Kalyani Dam

S.No	Name of the Student	Signature of the Student
01.	Vandadi Shivani	V. Shivani
02.	Basthala Mounika	B. Mounika
03.	Mulinty Greeshma	M. Greeshma
04	C. Sujathi	C. Sujathi
05	S. Baba vali	S. Baba vali
06	B. MD samiulla	B. Samiulla
07	S. sabir	Sabir
08	K. Mohaviz	Shahan
09	Shaik R Md Tofiq	S. Tofiq
10	Bala Hemanth Kumar	M. Hemanth
11	B. Jagannatha Naick	B. Jagannatha Naick
12	B. Rakesh	B. Rakesh
13	G. Yaswanth Kumar	G. Yaswanth Kumar
14	G. V. Bhanu Prakash	G. V. Bhanu Prakash
15	P. Charan Kumar Reddy	P. Charan Kumar Reddy
16	B. Mallaiah	B. Mallaiah
17.	D. Hari Kumar	D. Hari Kumar
18.	A. Purushotham	A. Purushotham
19	D. Vamsi Lakshman	D. Vamsi Lakshman
20	M. Abhinath	M. Abhinath
21	P. chandra sekhar	P. chandra sekhar
22	V. Vijayendra varma	V. Vijayendra varma
23	K. Venu Gopal Raju	K. Venugopal Raju
24	G. Tharun kumar Reddy	G. Tharun
25	K. Praveen kumar	K. Praveen Kumar
26	V. JAYASIMHAREDDY	V. Jayasimhareddy
27.	P. M. Kiran kumar Reddy	P. M. Kiran Kumar Reddy
28	K. Chetish	K. Chetish
29	N. Mahesh	N. Mahesh
30	C. Karthik	C. Karthik
31	B. Yaswanth	B. Yaswanth
32	D. Kantha Rao	D. Kantha Rao
33	Kiran	Kiran
34	Lakshmi Narasimhulu	Lakshmi Narasimhulu
35	G. Tharun Kumar Reddy	G. Tharun Kumar Reddy
36	N. Praneeth Reddy	N. Praneeth Reddy
37	A. Manoj	A. Manoj
38	T. Prathap Reddy	T. Prathap Reddy
39	M. Bharath kumar	M. Bharath Kumar
40	G. Ajay	G. Ajay
41.	S. Azaruddin	S. Azaruddin
42	Sd Fazal	Sd Fazal
43	V. Venkatesh	V. Venkatesh
44	B. Sanjith	B. Sanjith
45	S. Adil	S. Adil
46	Sufiya Anjum	Sufiya Anjum
47	B. Mounika	B. Mounika
48	J. Hyma vardhini	J. Hyma vardhini

Feedback:


Relevance to curriculum
40
20
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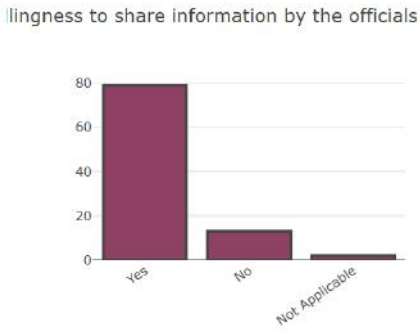
Excellent
Good
Fair
Poor


llingness to share information by the officials at the ɛss to different facilities for observation/knowgedge
80
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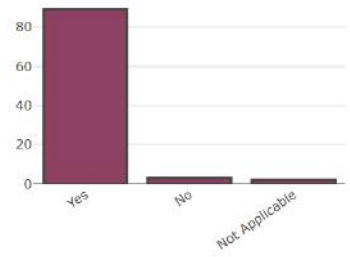
Yes
No
Not Applicable


80
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40
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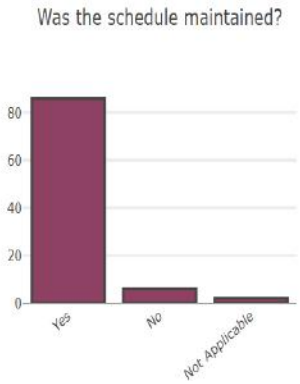
0
Yes
No
Not Applicable


Was the schedule maintained?
80
60
40
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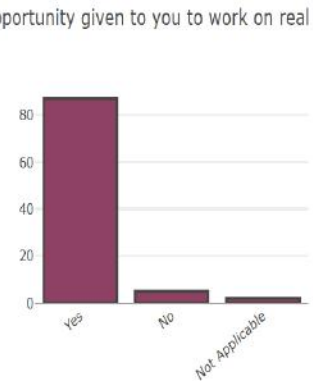
0
Yes
No
Not Applicable


he opportunity given to you to work on real time pro
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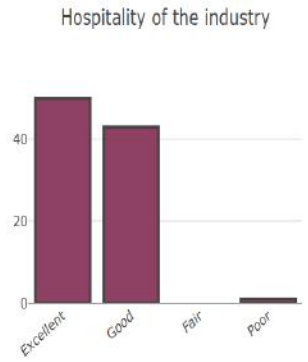
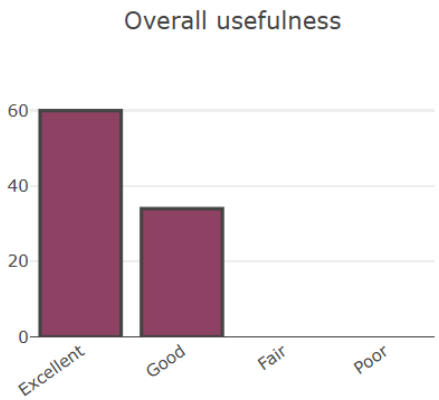
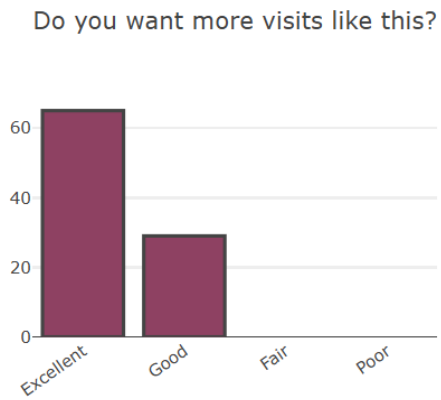
40
20
0
Yes
No
Not Applicable


Hospitality of the industry
40
20
0
Excellent
Good
Fair
Poor


Overall usefulness
60
40
20
0
Excellent
Good
Fair
Poor


Do you want more visits like this?
60
40
20
0
Excellent
Good
Fair
Poor