LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING
(AUTONOMOUS)
Accredited by NAAC with 'A' Grade, ISO 9001:2015 Certified Institution
Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada
L.B.Reddy Nagar, Mylavaram-521230, Krishna Dist, Andhra Pradesh, India

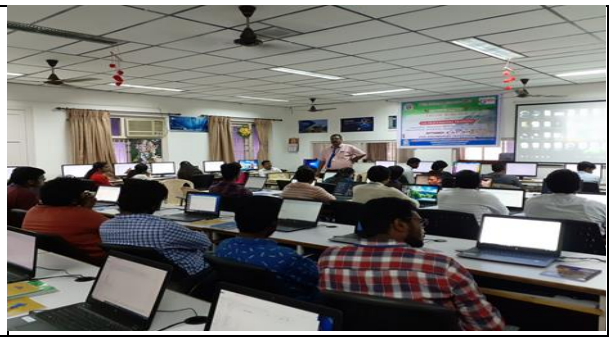
DEPARTMENT OF CIVIL ENGINEERING

REPORT ON
TWO DAY WORKSHOP ON GIS PROFESSIONAL TRAINING

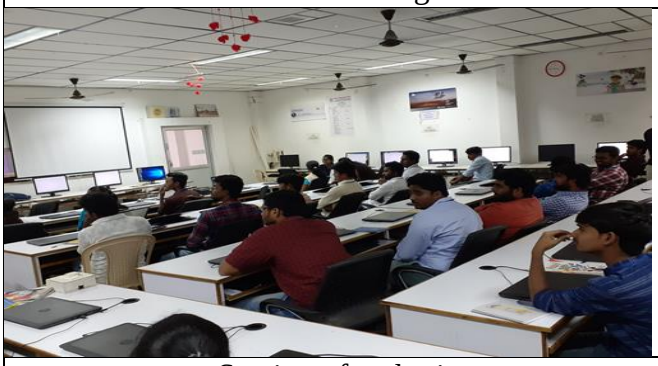
Event Type	Workshop
Date / Duration	06.9.2019 to 07.9.2019
Resource Person	Dr K.B. Chari, Director, GIS Labs, Hyderabad
Name of Coordinator	Sri B. Rama Krishna Assistant Professor and Sri. K. Harish Kumar, Assistant Professor
Target Audience	B Tech Civil 4th year students
Total no of Participants	56 (internal)
Objective of the event	To provide hands-on training using QGIS software to learn the fundamentals of the GIS analysis.
Outcome of event	• Applying the fundamentals of GIS analysis using QGIS software for working with vectors, raster, mosaicing, creating digital layers, and spatial queries
Feedback / Suggestions	• Able to correlate the concepts studied with that in practice • Obtained invaluable exposure by working with software through hands-on-practice sessions • Realized importance of the subject in present day context • Advanced topics covering a practical case and handling of real-life data is required

Photographs

Dr K.B. Chari addressing the students



Section of gathering



Section of gathering

Certificate distribution to participants

Press Clippings

జీఐఎస్ సాఫ్ట్‌వేర్‌పై వర్క్‌షాప్

మైలవరం, సెప్టెంబరు 7: లకిరెడ్డి బాలిరెడ్డి ఇంజనీరింగ్ కళాశాలలోని సివిల్ ఇంజనీరింగ్ విభాగంలో బీటెక్ ఫైనల్ ఇయర్ విద్యార్థులకు ఇన్‌స్టిట్యూట్ ఆఫ్ ఇంజనీర్స్ స్టూడెంట్ చాప్టర్ ఆధ్వర్యంలో రెండు రోజుల వర్క్‌షాప్ శనివారం ప్రారంభించినట్లు కళాశాల ప్రిన్సిపాల్ డాక్టర్ కె.అప్పారావు తెలిపారు. ఈ కార్యక్రమానికి హైదరాబాద్ జీఐఎస్ ల్యాబ్‌కు చెందిన డైరెక్టర్ డాక్టర్ కె.బి.చారి శిక్షణా నిపుణులుగా వ్యవహరించారు. సివిల్ ఇంజనీరింగ్‌కు చెందిన పలు అంశాల్లో జీఐఎస్ సాఫ్ట్‌వేర్‌ను నూతన ప్రణాళికలు రచించడానికి, ప్రస్తుత పరిస్థితులను మదింపు చేయడానికి విరివిగా వాడతారని ఆయన తెలిపారు. అడవుల సంరక్షణ, నదీ జలాలు నిర్వహణ, ఆనకట్ట నిర్మాణం వల్ల జరిగే మంచిచెడులు, పర్యావరణ కాలుష్యం వంటి అనేక అంశాలను జీఐఎస్ ద్వారా విశ్లేషించవచ్చని, ప్రపంచ వ్యాప్తంగా దీని వినియోగం పెరిగిందని ఆయన పేర్కొన్నారు. ముగింపు వేడుకల్లో పాల్గొన్న విద్యార్థులందరికీ డా.కె.అప్పారావు సర్టిఫికెట్స్ అందజేశారు. కార్యక్రమంలో డా.వి.రామకృష్ణ, కార్యక్రమ నిర్వాహకులు లక్ష్మీవీణ, బి.రామకృష్ణ, కె.హరీష్‌కుమార్ ఇతర అధ్యాపకులు పాల్గొన్నారు.

వర్క్‌షాప్‌లో పాల్గొన్న విద్యార్థులు

Andhra joythi 8-9-19

REPORT

A two-day workshop on GIS Professional Training is organized in Civil Engineering Department under Mylavaram Student Chapter Civil of IE (I) during 6th – 7th Sept 2018 with Dr K.B. Chari, Director GIS Labs, Hyderabad acting as Resource Person.

The students were briefed about the fundamental concepts of RS & GIS and the several applications that are currently used. The GIS analysis is very useful in identifying suitable locations for pipe lines, canal works, Irrigation projects, road & railway networking, waste management etc. without causing much of environmental damage. It is widely used in the flood and disaster management, assessment of spread of sporadic diseases, environmental impact assessments, urban expansions, town planning etc. Hence GIS analysis is important for the civil engineering students to meet diversified demands of the subject and an exposure to GIS software will also increase the job opportunities to the civil engineering students.

The students were introduced to the widely used **QGIS** software in GIS analysis. The students were taught the basic steps in using the software through hands-on-practice sessions along with examples for working with vectors, raster, mosaicing, creating digital layers, and spatial queries etc. The workshop is fully interactive and all the students participated enthusiastically and got enriched with the technical contents of the subject in the end.

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (Autonomous)
L.B. Reddy Nagar, Mylavaram-521230. A.P, INDIA
Affiliated to JNTUK. Kakinada & Approved by AICTE New Delhi
NAAC Accredited New Delhi & Certified by ISO 9001:2015
DEPARTMENT OF CIVIL ENGINEERING
http://www.lbrce.ac.in, hodcivil@lbrce.ac.in Ph: 08659-222933, Fax: 08659-222931

REPORT ON
TWO DAY WORKSHOP ON PRIMAVERA PROJECT PLANNER

Event type	Work shop
Date / duration	03-01-2020 to 04-01-2020
Resource Person	K.Jyothi, CADCAM Experts, Vijayawada.
Name of Coordinator	Sri. M.Manojkumar, Asst Professor & Sri. K.Harishkumar, Asst Professor
Target Audience	B Tech Civil 4thyear students
Total no of Participants	25 (Internal)
Objective of the event	To provide hands-on training on Primavera Project planner software to learn the fundamentals of the project management.
Outcome of event	Students can able to • Build the hierarchy of Organization and Enterprise. • Schedule the project in software. • Assign the resource and responsible to the activity.
Feedback / Suggestions	Students gave positive feedback on the workshop and requested to conduct one week workshop.

Workshop photographs:

<table>
<tr><td>  </td><td>  </td></tr>
<tr><td>Dr.V.Ramakrishna addressing the gathering</td><td>Certificate distribution</td></tr>
<tr><td>  </td><td>  </td></tr>
<tr><td>Student gathering section</td><td>Group photo with participants</td></tr>
</table>

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (Autonomous)
L.B. Reddy Nagar, Mylavaram-521230. A.P, INDIA
Affiliated to JNTUK. Kakinada & Approved by AICTE New Delhi
NAAC Accredited New Delhi & Certified by ISO 9001:2015
DEPARTMENT OF CIVIL ENGINEERING
http://www.lbrce.ac.in, hodcivil@lbrce.ac.in Ph: 08659-222933, Fax: 08659-222931

Press clippings:


ఇంజినీరింగ్ విద్యార్థులు నైపుణ్యత సాధించాలి

Clipping form Sakshi Paper


ప్రైమావెరా సాఫ్ట్‌వేర్‌పై ముగిసిన వర్క్‌షాపు

clipping from Andhrajyothy Paper


కార్యశాల ప్రారంభం

Clipping from Eenadu Paper

Report on workshop

A two-day workshop on Primavera Project Planner is organized in Civil Engineering Department under Mylavaram Student Chapter Civil of IE (I) during 3rd– 4th January in association with CADCAM Experts, Vijayawada. Sri S. Prasanna Kumar, Managing Director and Miss K.Joythi acted as resource person from CADCAM Experts.

The students were briefed about the fundamental concepts of project management and network analysis that are currently used in project. The project management is suitable in various projects like pipe lines, canal works, Irrigation projects, road & railway networking, waste management etc. In the present scenario for managing projects effectively Primavera software is used for scheduling, calculating the critical path in the Network by assign various resources and responsibilities in the project.

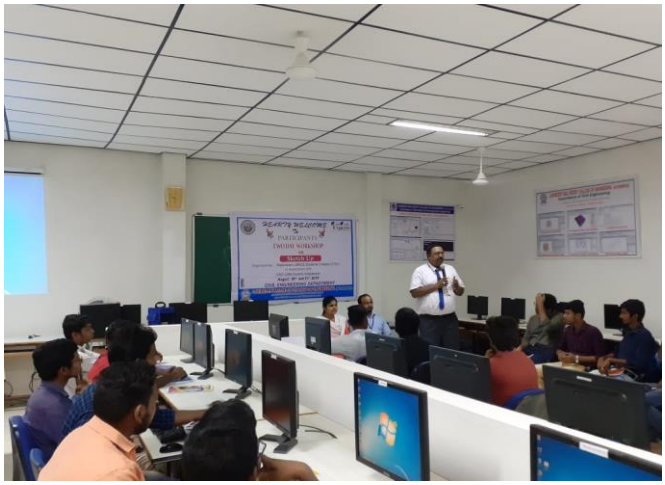
The students were taught the basic steps in using the software through hands-on-practice sessions along with examples. The workshop is fully interactive and all the students participated enthusiastically and got enriched with the technical contents of the subject up to the end session.

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (Autonomous)
L.B. Reddy Nagar, Mylavaram-521230. A.P, INDIA
Affiliated to JNTUK, Kakinada & Approved by AICTE New Delhi
NAAC Accredited New Delhi & Certified by ISO 9001:2015
DEPARTMENT OF CIVIL ENGINEERING
http://www.lbrce.ac.in, hodcivil@lbrce.ac.in Ph: 08659-222933, Fax: 08659-222931

REPORT ON

TWO-DAY WORKSHOP on SKETCHUP- PRO

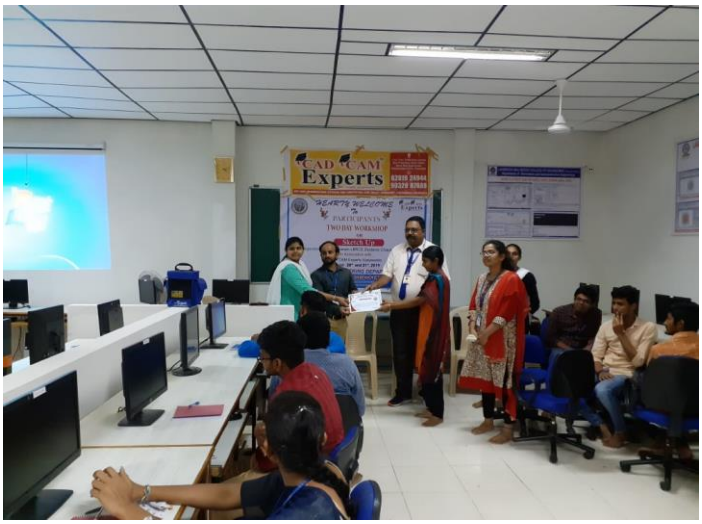
Event Type	Workshop
Date / Duration	30-08-19 to 31-08-19
Resource Team	CAD CAM Experts, Vijayawada
Name of Coordinator	Y. Laxmi Veena Kesav
Target Audience	B.Tech Civil II Year Students.
Total no of Participants	57 (internal)
Objective of the event	**SketchUp** is a 3D modeling computer program for a wide range of drawing applications such as architectural, interior design, landscape architecture
Outcome of event	• Understand the concept and techniques to draw different sections. • Representing the geometry - material, sections, latttndscaping, solids tools. • To use constraint for planning and interior designing.
Feedback / Suggestions	Students gave positive feedback on the workshop and requested to conduct more workshops like certified courses



HOD Dr.V.Rama Krishna addressing the importance of design and planning of structures.

Manager of CAD CAM Experts, S. Prasanna Kumar introducing sketch up software to students.

Resource person interacting with students



Participants getting certificates from resource person and HOD Dr.V.Rama Krishna

REPORT

A 2 – day workshop on Sketch up Pro Software was organized for 2nd yr B.Tech civil Engineering Students in LBRCE by IE (I) Student Chapter of Civil Engineering Department during 30-31 August 2019 in association with CAD CAM Experts, Vijayawada. Sri Prasanna Kumar, Manager of CAD CAM Experts, led a 2 member team for the workshop. This workshop is organized as a part of department's objective of introducing latest software available to the civil engineering students.

The resource team introduced all the basic design as well as planning software which are practiced inside civil field. He elaborately explained all the tools and fundamental concepts of sketch up software. Student got exposed to landscape designing, interior and exterior design of sample plan by using warehouse and sandbox tools of sketch up. This software is useful for modern civil engineers to satisfy the customer needs and producing better quality output of planning in short duration and it also enhances chance for getting better job.

The students are given hands-on experience with the software by working on several examples. At the end of the workshop, buildings are designed by students by applying different loading conditions.

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING
(AUTONOMOUS)
Accredited by NAAC with 'A' Grade, ISO 9001:2015 Certified Institution
Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada
L.B.Reddy Nagar, Mylavaram-521230, Krishna Dist, Andhra Pradesh, India

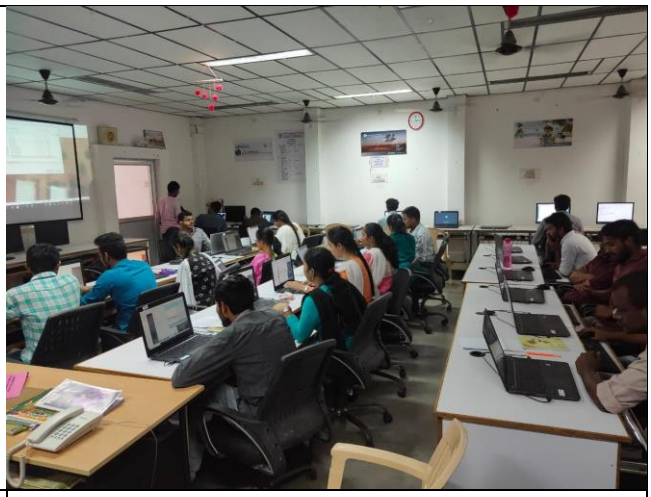
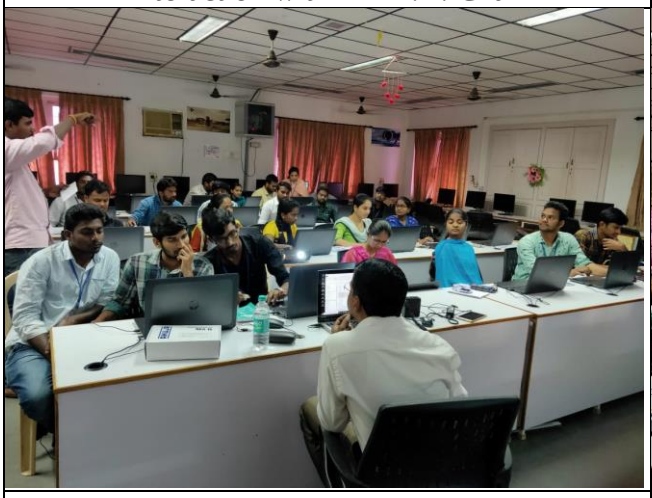
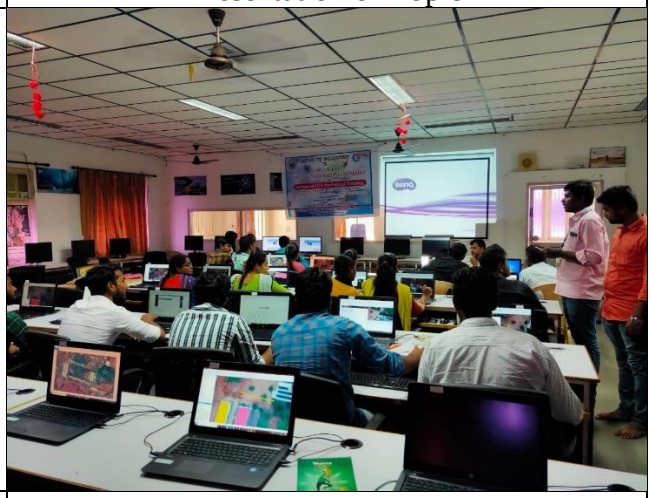
DEPARTMENT OF CIVIL ENGINEERING

REPORT ON

TWO DAY WORKSHOP ON TOTAL STATION SURVEY & ADVANCED GIS

Event Type	Workshop
Date / Duration	05.03.2020 to 06.03.2020
Resource Person	Dr K.B. Chari, Director, GIS Labs, Hyderabad
Name of Coordinator	Sri J.Rangaiah, Associate Professor Sri. K. Harish Kumar, Assistant Professor
Target Audience	B Tech Civil 4th year students.
Total no of Participants	36 members
Objective of the event	To conduct the land survey with total station with GPS coordinates and that data transfer to QGIS for digitizing.
Outcome of event	• To conduct the experiment's on total station and that data adding to QGIS. • To creating digital layers and digitizing total station captured features. • To editing or correcting the digitized features. • Adding attribute data to QGIS.
Feedback / Suggestions	• Acquired the knowledge on total station survey and adding data to QGIS. • Able to conduct total station survey. • Know the digitizing total station data in QGIS.

Photographs

<table>
<tr><td>  </td><td>  </td></tr>
<tr><td>Interaction with Dr K.B. Chari</td><td>Presentation of Topic</td></tr>
<tr><td>  </td><td>  </td></tr>
<tr><td>Practice Session</td><td>Practice Session</td></tr>
</table>

Press Clippings

సాక్షి

జీఐఎస్ ద్వారా ప్రకృతి వైపరీత్యాల గుర్తింపు

సదస్సులో మాట్లాడుతున్న శాస్త్రవేత్త డాక్టర్ చారి

Sakshi **Date: 09-03-2020**

REPORT

A two-day workshop on GIS Professional Training is organized in Civil Engineering Department under Mylavaram Student Chapter Civil of IE (I) during 5th – 6th March 2020 with Dr K.B. Chari, Director GIS Labs, Hyderabad acting as Resource Person.

The GIS analysis is very useful in identifying suitable locations for pipe lines, canal works, Irrigation projects, road & railway networking, waste management etc. without causing much of environmental damage. It is widely used in the flood and disaster management, assessment of spread of sporadic diseases, environmental impact assessments, urban expansions, town planning etc. Hence GIS analysis is important for the civil engineering students to meet diversified demands of the subject and an exposure to GIS software will also increase the job opportunities to the civil engineering students.

The students were introduced to the widely used total station and QGIS software in GIS analysis. The students were know the preparing layouts using QGIS software through hands-on-practice sessions along with the following exercises.

Exercise 01: Georeferencing Satellite Image
Exercise 02: Adding Total Station Data to Qgis
Exercise 03: Creating Digital Layers – Roads, Electric Poles, Trees
Exercise 04: Digitizing Total Station Captured Features
Exercise 05: Editing / Correcting the Digitized Features
Exercise 06: Adding Attribute Data
Exercise 07: Thematic Mapping
Exercise 08: Preparing Layout

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING
(AUTONOMOUS)
Accredited by NAAC with 'A' Grade, ISO 9001:2015 Certified Institution
Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada
L.B.Reddy Nagar, Mylavaram-521230, Krishna Dist, Andhra Pradesh, India

DEPARTMENT OF CIVIL ENGINEERING

REPORT ON

GUEST LECTURE

Event Type	Guest lecture
Date / Duration	07.03.2020
Resource Person	Dr K.B. Chari, Director, GIS Labs, Hyderabad
Name of Coordinator	Sri. K. Harish Kumar, Assistant Professor Sri J.Rangaiah, Associate Professor
Target Audience	B Tech Civil 4th year students & 2nd year students
Total no of Participants	116 members (internal)
Objective of the event	Application of GIS in varies fields.
Outcome of event	To know how GIS plays important role in varies fields.
Feedback / Suggestions	Aware the knowledge of GIS and its application in varies fields.

Photographs


Introduce the Dr K.B. Chari to the students

Press Clippings


ఆధునిక టెక్నాలజీ జీఐఎస్‌తో అనేక ఉపయోగాలు

Andhra Prabha **Date: 09-03-2020**

REPORT

A Guest lecture on applications of GIS in civil engineering field was organized in LBRCE by IE (I) Student Chapter of Civil Engineering Department on 7th March 2020 for the 2nd and 4th B.Tech Civil Engineering students. Dr K.B. Chary, Scientist GIS labs, Hyderabad acted as Resource person. He discussed the concept of GIS, its importance in today's society, and the multiple benefits that can be tracked from GIS with the following examples.

- GIS technology supports the design, implementation, and management of communication networks for the phones we use, as well as the infrastructure necessary for Internet connectivity.
- GIS is used in managing and designing road networks and transportation infrastructure.
- GIS is used to help plan efficient routes for medical emergency vehicles to travel between emergency sites and medical care facilities like hospitals.
- Businesses use GIS to decide where to build new stores and restaurants. Marketing companies use GIS to decide to whom to market those stores and restaurants, and where that marketing should be.

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING
(AUTONOMOUS)
Accredited by NAAC & NBA (CSE, IT, ECE, EEE & ME)
Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada
L.B.Reddy Nagar, Mylavaram-521230, Krishna Dist, Andhra Pradesh, India

DEPARTMENT OF CIVIL ENGINEERING

REPORT ON INDUSTRIAL VISIT TO

POLAVARAM RIGHT MAIN CANAL NEAR NUNNA

Event Type: Industrial visit

Date / Duration: 11-02-2020

Name of Coordinators:

1. Sri J.Rangaiah , Associate Professor, LBRCE
2. Sri B. Rama Krishna, Assistant Professor, LBRCE.

Target Audience:

1. 3rd year B.Tech Civil Engineering students of LBRCE

Total no of Participants: 61

Objective of the event:

1. To bridge the gap between theory and practice

Outcome of event:

1. Students should know the various type of cross drainage works. .
2. Students should know the difference between lined canal and unlined canal.
3. students should know the component parts of canal Regulator.

Feedback / Suggestions:

1. Positive. More programmes are required.

The 3rd year B.Tech civil engineering students underwent an industrial visit to Polavaram right main canal, Nunna on 11-02-2019. The students visited the canal regulator, cross drainage works-super passage etc. They observed the component parts of cross drainage works, canal regulator.

REPORT

ABOUT THE POLAVARAM RIGHT MAIN CANAL

The Right Canal is 174 K.M. (110.5 Miles) long and provides irrigation to 1.295 Lakh hectares (3.20 Lakh acres) in the up-land areas of West Godavari and Krishna Districts and also enables a diversion of 2.27 T.M.Cum. (80 T.M.Cft.) to the Krishna river at Vijayawada. 7000 Nos Tube wells are also proposed in the command area of the Project for conjunctive use of ground water along with the river water, to control water logging problems.

Right main canal

i) Length of the canal	:	174.00 KM
ii) Design discharge at head	:	499.299 Cumec. (17633 cusec)
iii) Bed width	:	85.50 m
iv) Full supply depth.	:	5.0 m
v) Bed fall.	:	1 in 20,000
vi) Full supply level at start	:	+ 40.232 m
vii) Proposed Ayacut.	:	1.295 Lakh Hectares (3.20 Lakh Acres)

Benefitted from Right main canal

i) West Godavari District:

a. Polavaram
b. Kovvur.
c. Tadepalligudem.
d. Eluru.

ii) Krishna District:

a. Nuzvid.
b. Gannavaram.
c. Vijayawada.

CROSS REGULATOR

A cross regulator is a structure constructed across a canal to regulate the water level in the canal upstream of itself and the discharge passing downstream of it for one or more of the following purposes:

1. To feed offtaking canals located upstream of the cross regulator.
2. To help water escape from canals in conjunction with escapes.
3. To control water surface slopes in conjunction with falls for bringing the canal to regime slope and section.
4. To control discharge at an outfall of a canal into another canal or lake.
5. Necessity of Cross Drainage Works

CROSS DRAINAGE WORK

A cross drainage work (also called CD work) is a structure built on a canal where it is crosses a natural drainage, such as a stream or a river. Sometimes, a cross-drainage work is required.when the canal crosses another canal. The cross-drainage work is required to dispose of the drainage water so that the canal supply remains uninterrupted. A cross-drainage work is also called as drainage crossing. The canal at a cross-drainage work is generally taken either over or below the drainage. However, it can also be at the same level as the drainage.

The canals are, preferably, aligned on the watershed so that there are no drainage crossings. However, it is not possible to avoid the drainages in the initial reach of a main canal because it takes off from a diversion headworks (or storage works) located on a river which is a valley. The canal, therefore, requires a certain distance before it can mount the watershed (or ridge). In this initial reach, the canal is usually a contour canal and it intercepts a number of natural drainages flowing from the watershed to the river. After the canal has mounted the watershed, no cross-drainage work will normally be required, because all the drainage originate from the watershed and flow away from it. However, in some cases, it may be necessary for the canal to leave the watershed and flow away from it. It may be necessary for the canal to leave the watershed for a short distance where the watershed takes a sudden small loop and it is not possible to align the canal along the loop. In that case, the canal intercepts the drainages which carry the water of the pocket between the canal and the watershed and hence the cross-drainage works are required.

A cross-drainage work is an expensive structure and should be avoided as far as possible. The number of cross-drainage works can be reduced to some extent by changing the alignment of the canal. However, it may increase the length and hence the cost of the canal. Sometimes it is possible to reduce the number of cross-drainage works by diverting the small drainages into large drainages or by constructing the cross-drainages work below the confluence of two drainages by shifting the alignment. However, the suitability of the site for the construction of the structure should also be considered while deciding the location of the cross-drainage works.

Photograph:

Photo at Canal Regulator on Polavaram Right Canal near Nunna

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (Autonomous)
L.B. Reddy Nagar, Mylavaram-521230. A.P, INDIA
Affiliated to JNTUK, Kakinada & Approved by AICTE New Delhi
NAAC Accredited New Delhi & Certified by ISO 9001:2015
DEPARTMENT OF CIVIL ENGINEERING
http://www.lbrce.ac.in, hodcivil@lbrce.ac.in Ph: 08659-222933, Fax: 08659-222931

DEPARTMENT OF CIVIL ENGINEERING

REPORT ON INDUSTRIAL VISIT TO RAILWAY WAGON WORKSHOP-GUNTUPALLI

Event Type: Industrial visit
Date/Duration: 13-02-2020
Resource Persons: --
Name of Coordinators:

1. Sri M. Manoj Kumar -Assistant Professor
2. Sri P.M. Ganga Raju -Assistant Professor

Target Audience: 4th year B.Tech Civil Engineering students of LBRCE
Total no of Participants: 32
Objective of the event:

1. To bridge the gap between theory and practice

Outcome of event:

1. Students became aware of repair of wagon and how the work is carried out in various stages for delivery of wagon in fit condition.
2. Students became aware about various components of wagon required in the repairing.

Feedback/Suggestions: Positive. More programmes are required.

REPORT

The 4th year B.Tech civil engineering students underwent an industrial visit to railway wagon workshop, Guntupalli, Vijayawada on 13-02-2020. This is one of the **Premier Workshops and first modern workshop** on Indian Railways planned to cater to repairs of different classes of **Broad Gauge Wagons**. Annual output capacity is **5,280** Vehicle Units approximately. The Core activity of this Workshop is Periodical Overhauling of Goods Wagons used for transportation of different material ranging from raw materials such as Iron Ore, manganese, fuels like Coal, Petroleum Products, finished products like Iron, Steel, besides Food grains. Different wagons are used for transporting different types of material, depending upon the size, shape and nature of protection required during the course of transportation.

The students visited different sheds arranged in workshop for various activities like dissembling, repairing, refixing, welding, grinding, polishing, painting, assembling all components etc.

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (Autonomous)
L.B. Reddy Nagar, Mylavaram-521230. A.P, INDIA
Affiliated to JNTUK, Kakinada & Approved by AICTE New Delhi
NAAC Accredited New Delhi & Certified by ISO 9001:2015
DEPARTMENT OF CIVIL ENGINEERING
http://www.lbrce.ac.in, hodcivil@lbrce.ac.in Ph: 08659-222933, Fax: 08659-222931

Images

<table>
<tr><td> 
</td><td>  </td></tr>
<tr><td>Students gathering in the college</td><td>Explain about laser cut equipment</td></tr>
<tr><td> 
</td><td>  </td></tr>
<tr><td>Types of springs used in wagon</td><td>Explaining about the various stages</td></tr>
<tr><td>  </td><td>  </td></tr>
<tr><td>Axle used in wagon</td><td>Various components of wagon</td></tr>
<tr><td>  </td><td>  </td></tr>
<tr><td>Explaining about compressive testing machine</td><td>Sheet cutting machine</td></tr>
<tr><td> 
</td><td> 
</td></tr>
<tr><td>Students gathering in the workshop</td><td>Student gathering at wagon workshop Entrance gate</td></tr>
</table>