



GOKULA KRISHNA COLLEGE OF ENGINEERING- SULLURPET

(Affiliated to JNTUA Ananthapuramu and approved by AICTE, New Delhi)

2.3.1 Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences using ICT tools

Answer:

The institute makes effort to enhance the learning experiences through a paradigm shift from the traditional teacher-centred learning to student-centred learning. In addition to the traditional teaching-learning methods, the institute is providing innovative student centric methods such as Quiz(1), Seminars (2) , Workshops (3) , Symposiums (4), Role play (5), Video (6), Demonstration(7), Guest lecture (8), Group Discussions (9), MOOCs (10), PPT(11), Open book test(12), Proto-type model (13), Cross words and puzzles (14), Viva (15), Poster presentation(16), Public Speaking(17), Industrial visits(18) to encourage Participative, Problem solving and Experiential learning. In all activities students are encouraged to use ICT Tools like Google-forms, PPTs, MS office, WhatsApp etc., for their preparation and presentation.

Experiential Learning

Project Work: Project work/ Project based learning is introduced to students ranging from critical thinking to project management and teamwork leading to self confidence. This also helps in teacher-student interaction as it is a learning by doing approach. Students undergo both mini project and major project

Participation in District level and National Competitions: For Real time exposure students are encouraged to participate at National and International Level. This helps in a holistic development of our students.

Industrial Visits: Industry Visits are arranged for the students to get exposure to the realistic industry practices and regulations thus helping in broadening the outlook with exposure to different work forces from different industries.

Guest Lectures: Guest lecture by eminent experts from industry and academics are organised to supplement the teaching process and provide experiential learning.

Participative Learning

Role Plays: Teachers adopt role play method especially in management and English courses to supplement teaching by way of participative learning. Even in Technical subjects also Teachers try to use this role play technique to make students to understand the concepts deeply.

Teamwork: The Institute organizes students' activities to promote the spirit of Teamwork. The activities through NSS, institutional social responsibility through Tree plantation, Swatchh Bharat, Blood Donation and Health awareness camp helps the students to learn Art of living in a team for Social and community welfare. Team projects have been included so that students can share their ideas among themselves and learn to collaborate and communicate with one another.

Problem Solving Methodology

Symposiums: Quiz and other competitions organized in the symposiums are mostly based on the Aptitude and reasoning to improve the problem-solving capacity of students.

Aptitude Training: Soft skill and Aptitude training is provided in the institution in collaboration with APITA to make student strong in problem solving.

Discussions: The Institute follows the group discussions methods in many of the subjects as it makes the students to think wide and participate in coming up with the opinions, suggestions and make decisions.

All students have access to 2 well equipped computer labs for enhancing learning experiences using ICT tools

- **Computer LAB-1 & LAB-2 are equipped with 60 Personal Computers (i3-4th Gen. CPU,320GB HDD/4GB RAM) installed with ICT Tools, 20 Web Cameras and 20 headsets.**
- **3 leased line Internet connections of 200Mbps speed to have uninterrupted Internet services.**

GOKULA KRISHNA COLLEGE OF ENGINEERING, SULLURPET-24121

ACTIVITY: INTERACTIVE DEMONSTRATION

SUBJECT: LINEAR AND DIGITAL IC APPLICATIONS

TOPIC: IC APPLICATIONS

SUB TOPICS:

1. LINEAR IC APPLICATIONS

2. NON LINEAR IC APPLICATIONS

DATE: 23-05-2022

CLASS: II B.TECH

SEMESTER: II

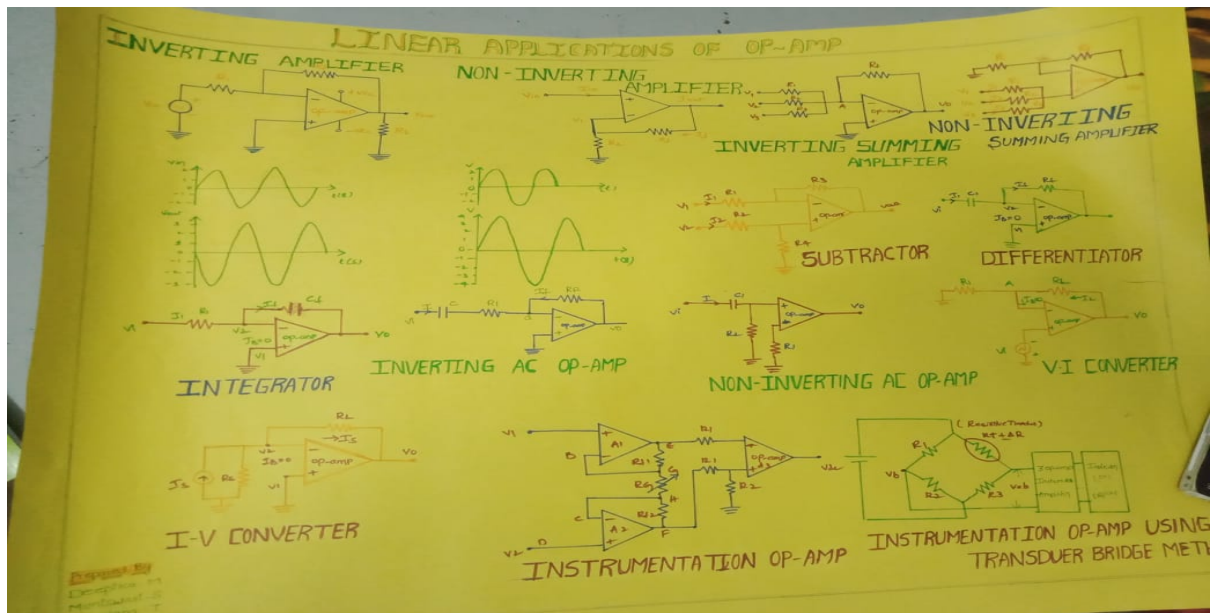
DEPARTMENT: ECE

SUBJECT HANDLING FACULTY: S.M. NIGAR, ASST.PROF, ECE.

We make the Students learn through their participation in the attainment of knowledge by gathering information and processing it by solving problems and articulating what they have studied. This activity provides students with opportunities to deepen their learning by applying concepts and articulating new knowledge.

Interactive demonstrations are given by the students to demonstrate the application of op-amps to understand the concept, operation and different IC application with circuit diagrams. This activity is an active process and demonstration to incorporate opportunities for students to reflect and analyze the process.

1. In this process first they introduce the goal and description of the demonstration.
2. Students think, discuss and they predict may happen, or to analyze the situation at hand.
3. They get practicing drawing the different circuits of different applications and can able to find the even a little variation in each circuit.
4. Students discuss and analyze the outcome either in pairs or small groups or as a whole class based on their predictions/interpretations.



The Advantages of interactive demonstrations include novel visualizations of the IC application circuits on a single chart and allowing students to probe their own understanding.





S. M. Nigar
Mrs. S. M. Nigar

SUBJECT HANDLING FACULTY

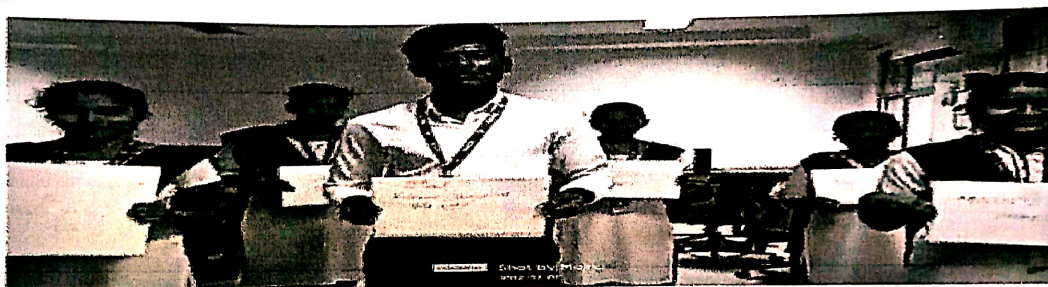
Y. Chiranjeev

HOD

GOKULA KRISHNA COLLEGE OF ENGINEERING-SULLURPET

Department of CSE

Activity :Role Play
Mentor :Mrs.M.Sravani (Assistant professor CSE Dept)
Class :II B.Tech CSE
Topic :Software Development Life Cycle
Participants : 1. R.Yugandhar
2. E.Lakshmi Priya
3. K.Sai Greeshma
4. O.Ramya Nandini
5. A.Anusha
6. T.Sailaja



TESTING PHASE

S. V. Padmanabhan
HOD 14/8/22

ACTIVITY: PROTOTYPE MODELLING AND EXPLANATION

SUBJECT: Electromagnetic waves and Transmission lines

TOPIC: Co-ordinate systems

DATE: 23-05-2022

CLASS: II B. TECH

SEMESTER: II

DEPARTMENT: ECE

SUBJECT HANDLING FACULTY: |M. Gnana Priya, Asst. Prof.,

Description:

To make students to understand clearly about the coordinate system, students were asked to make the prototype models of coordinate systems and explain.

In order to describe the spatial variations of the quantities, appropriate coordinate system is required. A Coordinate system is a way of uniquely specifying the location of anything in space with respect to a reference origin. coordinate system may be orthogonal or non-orthogonal. An orthogonal system is one in which the coordinates are mutually perpendicular to each other.

Examples of orthogonal co-ordinate system are:

Cartesian or Rectangular, Circular or cylindrical, Spherical, Elliptical Cylindrical, Hyperbolic Cylindrical, Parabolic Cylindrical.

The choice depends on the geometry of the application. The frequently used and hence discussed herein are

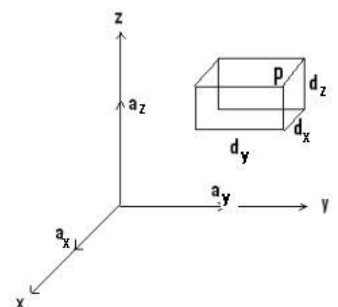
- **Rectangular Co-ordinate system. (Example: Cube, Cuboid)**
- **Cylindrical Co-ordinate system. (Example: Cylinder)**
- **Spherical Co-ordinate system. (Example: Sphere)**

Rectangular Co-ordinate system. (Example: Cube, Cuboid)

A set of 3 scalar values that define position and a set of unit vectors that define a co-ordinate system.

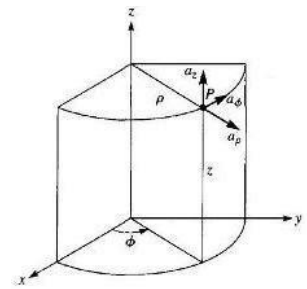
A Vector in Cartesian system is represented as

$$(A_x, A_y, A_z) \text{ Or } \mathbf{A} = A_x \mathbf{a}_x + A_y \mathbf{a}_y + A_z \mathbf{a}_z$$



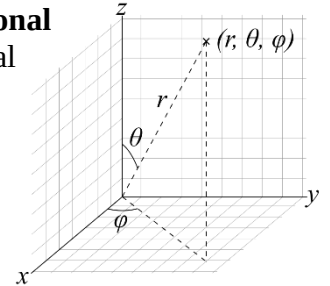
(Circular) Cylindrical Co-ordinate System...

A Vector in Cylindrical system is represented as (A_ρ, A_ϕ, A_z) or $A = A_\rho \hat{a}_\rho + A_\phi \hat{a}_\phi + A_z \hat{a}_z$

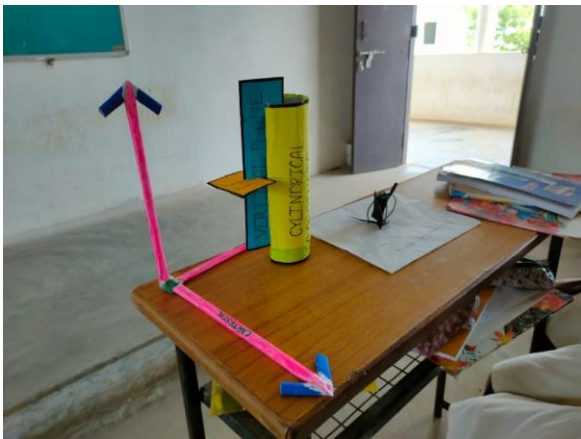


Spherical Co-ordinate system

a spherical coordinate system is a coordinate system for three-dimensional space where the position of a point is specified by three numbers: the radial distance of that point from a fixed origin, its polar angle measured from a fixed zenith direction, and the azimuthal angle of its orthogonal projection on a reference plane that passes through the origin and is orthogonal to the zenith, measured from a fixed reference direction on that plane. It can be seen as the three-dimensional version of the polar coordinate system.



Prototype model of 3 co-ordinate systems



M. G — P

Mrs. M. Gnana Priya
SUBJECT HANDLING FACULTY

y. Chiriz.

HOD



Excellency Efficiency Quality



GOKULA KRISHNA COLLEGE OF ENGINEERING SULLURPET.SPSR NELLORE DIST-524121

TECHNOFRENZY-2K21

(A national level Technical crusade)

Organised by

The Department of ECE

Register on /before 23/11/2021

Selection Intimation: 25/11/2021

Student coordinators :

Sai Sruthilaya IV-ECE (8919149858)

Lakshmi Prasanna IV ECE (8143323320)

Akash III-ECE (9110546534)

Samuel III-ECE (7780702145)

S R Praneeth Sarma III-ECE (8333086955)

27th NOV 2k21

PATRON:

Dr.M.Suresh, Principal

CO-PATRON:

Smt.M.Gnana priya, vice principal

Mail:

technofrenzy2k21@gmail.com

CONVENOR:

Mrs.E.Sasikala, Assistant professor

Mr.M.Chiranjeevi, Assitant Professor

Follow us on  Technofrenzy 2021

Paper presentation

Poster presentation

Project Expo

Short films

Quiz

many other spot events

CHIEF PATRONS:

Sri G.Brahmaiah, President

Sri M.M.Kondaiah, Secretary

Sri. C. Srinivasa Baba, Treasurer

GOKULA KRISHNA COLLEGE OF ENGINEERING -SULLURPET

DEPARTMENT OF ECE

MINI PROJECT EXPO-2K17

A MINI PROJECT EXPO-2K17 was organized by the DEPARTMENT OF ECE, on 29th July 2017. To encourage the creative idea of emerging Engineers the prime focus of the day was to elicit, exhibit, evaluate the student talents and rewarding them. Visitors to this exceptional event gained a worthwhile learning experience.

The event was Inaugurated by the honorable chief guest Ms. C. Haritha, Junior civil judge. Chairman-cum mandala legal services committee sullurpet. Another chief guest Ms. B. Gayatri additional first class judicial magistrate, sullurpet addressed the gathering and spoke about importance of innovation & research, congratulated all the students and gave her ideas to improve the projects.

More than 50 projects were displayed which varied from simple electronic alarm circuits to complex obstacle detection Rover Robot each team worked on unique ideas with the help of faculty.

GKCE radio, 88.9FM was a hit among the GKCE listeners. Covering a range of 100 mts. College radio was started as a part of main project & students worked hard for 2 weeks to make it to reality. Throughout the day students

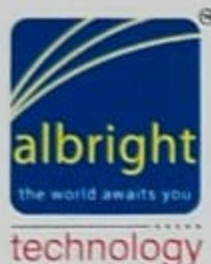
RJS gave feast to their listeners by various interviews Technological news, Educational tips & live broadcast of Miniproject Expo 2017 college took a festival look on that day.



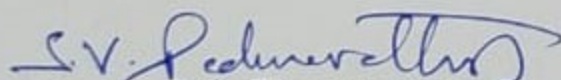
GOKULA KRISHNA COLLEGE OF ENGINEERING

Affiliated to JNT University, Anantapur and Approved by AICTE, New Delhi

Behind RTC Depot, Sullurpet, Nellore Dist., Andhra Pradesh - 524121



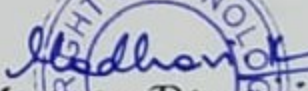
This is to certify that Mr. / Ms. KANNADI MOUNIKA
with Register No. 19F81A0518 studying IIIrd year in CSE department in
Gokula Krishna College of Engineering has attended the Two Day Work Shop on "Amazon Web Services"
on 18th and 19th April, 2022 organised by the Department of CSE.


Head of the Department
Dr. S.V. Padmavathi Devi


Principal
Dr. M. Suresh


Chief Executive Officer
Dr. Rapaka Vijayakrishna
(Gokula Krishna Group of Institutions)




Managing Director
Madhavi Karguer
(Albright Group of Institutions)



Quiz1 for II B. Tech. ECE -Signals & Systems

* Required

1. Email *

2. Name of the Student *

3. Phone number *

Elementary signals

4. 1. Video is an example of *

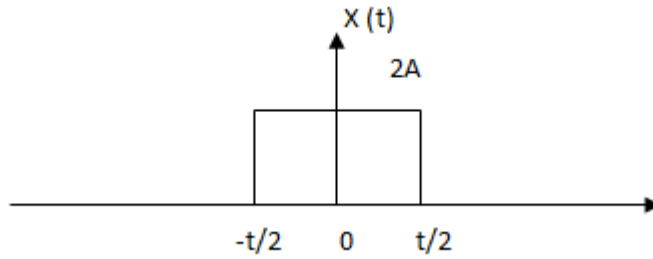
1 point

Mark only one oval.

- ☐ one dimensional signal
- ☐ three dimensional signal
- ☐ two dimensional signal
- ☐ multi dimensional signal

7. 4. What is the amplitude of the following signal *

1 point

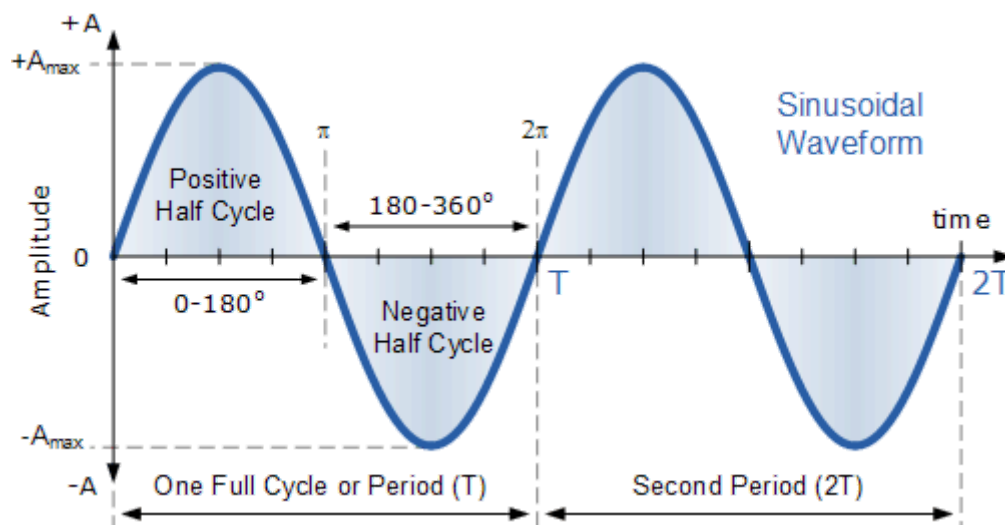


Mark only one oval.

- ☐ 2A
- ☐ x(t)
- ☐ T
- ☐ -t/2

8. 5. What is the fundamental time period of the wave form shown and find the fundamental frequency also *

1 point

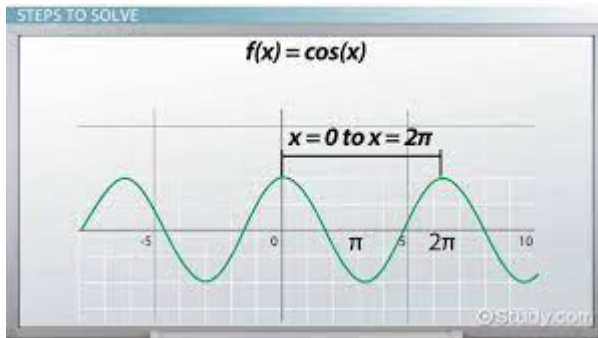


Mark only one oval.

- ☐ $2\pi, 1\text{Hz}$
- ☐ T, 2π
- ☐ $\pi, 2\text{Hz}$
- ☐ $2\pi, 2\text{Hz}$

9. 6. What is the value of $\cos(3\pi/2)$ *

1 point

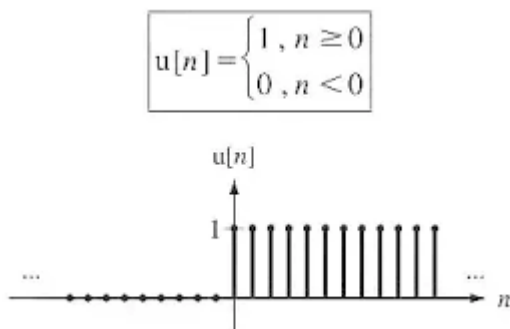


Mark only one oval.

- ☐ 3/4
- ☐ 1/4
- ☐ 1
- ☐ 0

10. 7. Identify the following sequence *

1 point

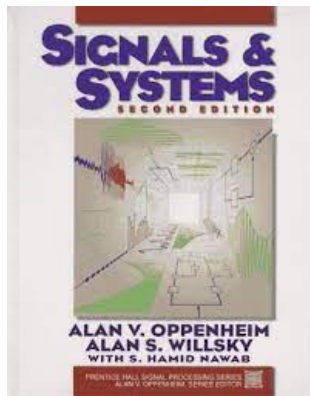
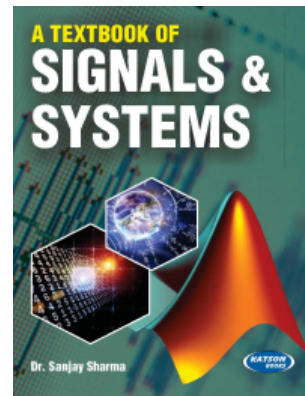
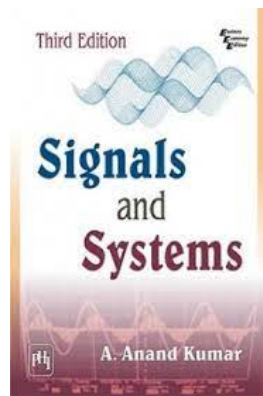
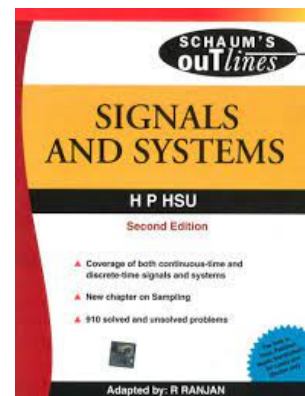


Mark only one oval.

- ☐ Unit parabolic sequence
- ☐ unit ramp sequence
- ☐ unit step sequence
- ☐ unit impulse function

13. 10. Identify the text books of Signals & Systems *

1 point

Check all that apply.☐ Signals and Systems by Alan V. Oppenheim and Alan S. Willsky☐ Signals and Systems by Dr. Sanjay sharma☐ Signals and Systems by A. Anand kumar☐ Signals and Systems by Schaum's Outlines

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EDUCATIONAL TOUR TO COURT

K. Akash, K. Ashrita, V. Gokul, A. Gunasekhar, V. Gunasekhar, S. Reshma,
B. Sannitha, M. Siva Ganesh Raju, Ch. Sumiya, N. Sai Charan, R. Samuel, K. S. R. Praneeth Sarma

Department of ECE, GokulaKrishna College of Engineering,,
Sullurupeta.

1. ABSTRACT

All 3rd B.Tech. students of GokulaKrishna College of Engineering visited the Junior Civil Judge cum Judicial 1st Class Magistrate Court, Sullurupeta as a part of Educational Tour, witnessed the proceedings of the court and interacted with the Honourable Additional Judicial Magistrate of first Class Shaik Faisunnisa and Advocates of the court on 23rd June, 2022. During this interaction, some questions by students about the composition and working of the judicial system in India were answered by the Honourable Judge and the Advocates.

2. COURTROOM OBSERVATIONS

2.1 COURT PERSONNEL

- Judge and Advocates

The Court comprises two components – the Bar and the Bench. The first thing to notice is the Advocates, dressed up in black and white uniforms. The Court Complex/Building/Compound inside has various Courtrooms wherein the proceedings are conducted.

- Readers and Stenographers

Next to the Judge's bench is the desk of the Reader and opposite to him sits the Stenographer or Typist. The job of the Reader is to administer the proceedings, calling parties forward, recording the next hearing dates, and putting up the case files before the judge which are fixed for hearing on the particular day. Stenographers/typists type the orders dictated by the judge for cases, for records.

Appointment of Readers, Stenographers, Court clerks and other non-judicial staff members are appointed as per the specific rules laid down by states. The power of states to legislate their own rules is given to them as per Article 235 of the Constitution of India,

- When a decree has been passed against the Defendant as "Ex-Parte" (i.e. without his appearance) no appeal is allowed
- When an appeal is headed by two or more judges, then the majority decision will be prevailed
- In case there is no majority, then the decree of lower court shall be confirmed
- If number of judges in the court where appeal is filed, is more than the number of judges hearing the appeal, and then if there is a disagreement on a point of law, such dispute can be referred to one or more judges

Procedure for appeal from original decrees is as given below:

- The appeal has to be filed in the form prescribed, signed by the appellant, along with a true certified copy of the order
- The appeal should contain the grounds of objection under distinct heads, and such grounds has to be numbered consecutively
- If the appeal is against a decree for payment of money, the court may require the petitioner to deposit the disputed amount or provide any other security
- A ground/objection which has not been mentioned in the appeal, cannot be taken up for arguments, without the permission of court
- Similarly any point of act which was not taken up with the Appellant, in lower court, cannot be taken up in appeal lies only against only those points which have been decided by the court rightly or wrongly



Figure 1: Group photo of 3rd B.Tech. ECE students in-front of the court



Figure 2: Group photo of 3rd B.Tech. ECE students at the court's entrance

4. CONCLUSION

The court visit gave us the clarity on what goes on inside the court, the etiquettes that are being followed inside a court, proper dress code to be worn by the officials and litigants and basic information on judiciary structure of our country. The interaction with the Honourable Judge was very informative and we learnt a lot of things about the civil and criminal case proceedings. The advocates also provided their insight on various topics such as with the relationship between Bench and Bar and the necessity to maintain a trustworthy and dependable relationship between the two. Overall, this visit was very educational and we learnt a lot of things about India's judiciary structure and its functioning.

भारत सरकार
अन्तरिक्ष विभाग
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शार
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फेक्स: +91-8623-225160



Government of India
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Satish Dhawan Space Centre
SHAR
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Fax : +91-8623-225160

GD/MSG/Visits/2022

May 30, 2022

Sub: Permission for Visiting SDSC SHAR Facilities – Reg.

This has the reference to your email/letter with the above subject. In this regard, kindly note that you may visit the Centre as per the date and time given below:

- | | |
|----------------------------|---|
| ★ Approval Ref.No. | : 047/2022 |
| ★ Date of Visit | : 02.06.2022 (Thursday) |
| ★ Reporting Time | : 09:00 hrs. |
| ★ No. of Persons Permitted | : Max. 40 only (Including Staff & Vehicle Crew) |

Kindly confirm your visit either by Fax 08623-225082 or e-mail: ppo@shar.gov.in. If no confirmation is received (along with the visitors list) from Dept. of ECE, Gokula Krishna College of Engineering, Sullurupeta, on or before 31.05.2022, we presume that you have dropped your programme.

Please go through the General Guidelines printed over-leaf for further details.

For any queries / help, please do not hesitate to write / contact us (Ph.No. 08623 – 226092 / e-mail: ppo@shar.gov.in)

Note: Due to safety measures only 10th Standard and above students will be allowed inside the range facilities of SDSC SHAR.

Wishing you a happy visit.

With regards.

To
Principal,
Gokula Krishna College of Engineering
Sullurupeta - 524121


(P Gopi Krishna)
Group Director, MSG
पी. गोपी कृष्णा P. Gopi Krishna
समूह निदेशक Group Director
एमएसजी MSG
एसडीएससी शार SDSC SHAR

Details for Visiting SDSC SHAR Facilities

Approval Ref. No.: 047/2022

Organization Name & Address

Gokula Krishna College of Engineering,
Dept. of ECE,
Sullurupeta.

Date of visit: 2-06-2022

Contact No: 8247846213

S.No.	Student Name / Staff Name	Age	Class / Branch & year	Aadhar No.	Organization ID No.	Contact No.
1	NAVEENA.K	19	B. Tech II Year	282656560894	20F81A0407	8008070917
2	VIJITHA.J	19	B. Tech II Year	348516799967	21F85A0414	6301951913
3	ANITHA.I	19	B. Tech II Year	615959852773	21F85A0402	9959652662
4	RAMYA.CH	19	B. Tech II Year	703435988119	20F81A0411	9493521431
5	MUNISWARI.S	19	B. Tech II Year	970119850834	21F85A0407	7416934176
6	PADMA.K	27	B. Tech II Year	254955315251	21F85A0408	7382964995
7	RAJ ESH.A	19	B. Tech II Year	371051751950	20F81A0410	8978297813
8	SPANDANA.T	20	B. Tech II Year	326953040687	21F85A0411	8897903583
9	TENKUSAI.M	19	B. Tech II Year	233902161373	20F81A0415	7995292178
10	BHARGAV.K	20	B. Tech II Year	321485086840	20F81A0401	9059841106
11	RAJA VENKATA SAI. A	21	B. Tech II Year	401893404605	21F85A0409	7997832753
12	RAJESH KUMAR.CH	19	B. Tech II Year	251138961503	20F81A0409	8106965586
13	DEEPIKA.M	20	B. Tech II Year	264324352418	21F85A0405	7670994013
14	AKASH.K	24	B. Tech III Year	450252130212	19F81A0401	9110546534
15	ASHRITHA.K	20	B. Tech III Year	743502395103	19F81A0402	8125431554
16	GOKUL.V	22	B. Tech III Year	491115068859	19F81A0403	9676256009
17	GUNASEKHAR.A	20	B. Tech III Year	461036731219	19F81A0404	79939770123
18	RESHMA.SK	20	B. Tech III Year	310688250112	19F81A0406	7815846984

19	SANNITHA.B	20	B. Tech III Year	462941306659	19F81A0408	8499040207
20	SUMIYA.CH	20	B. Tech III Year	558599694658	19F81A0410	9390822839
21	SAMUEL.R	20	B. Tech III Year	785642822903	20F85A0402	7780702145
22	KSR.PRANEETH SHARMA	21	B. Tech III Year	626551727399	20F85A0403	8333086955
23	SOHITHA.E	18	Diploma II Year	415277931119	20263-EC-017	7569221173
24	THANUJA.CH	18	Diploma II Year	262062207523	20263-EC-020	9963302626
25	POORNIMA.M	18	Diploma II Year	543050126138	20263-EC-012	9701935293
26	PUSHPALATHA.A	18	Diploma II Year	524738170697	20263-EC-013	9912555203
27	NIKHITHA.P	17	Diploma II Year	545369467431	20263-EC-010	9676204516
28	SINDHU.A	18	Diploma II Year	900714678946	20263-EC-015	8074544361
29	SNEHALATHA.G	18	Diploma II Year	766783760435	20263-EC-016	9491451764
30	GOWRI.S	17	Diploma II Year	657102518146	20263-EC-002	9966238251
31	VAISHNAVI.P	17	Diploma II Year	812387419572	20263-EC-022	9391223788
32	SUMIYA.SK	17	Diploma II Year	850087185485	20263-EC-019	8897553645
33	PAVANI.M	17	Diploma II Year	885754525464	20263-EC-011	9640621550
34	MANASA.M	18	Diploma II Year	427678308850	20263-EC-005	9676751233
35	UHA.P	18	Diploma II Year	618493614397	20263-EC-021	8074101063
36	Mr. K. SUBRAMANYAM	31	Assistant Professor	925712438064	-	8247846213
37	Mrs.SM. NIGAR	37	Assistant Professor	770434741310	-	8500954054
38	Ms. L. DILLIKUMARI	22	Assistant Professor	769513272924	-	8309191230
39	S. BALA CHANDRA KISHORE KUMAR	46	Lab Technician	341627155569	-	9494643990
40	GURAVIAH.M	42	Driver	210412895495	(Vehicle Number) AP26TA0533	9491285477



GOKULA KRISHNA COLLEGE OF ENGINEERING- SULLRPET
(Affiliated to JNTUA Ananthapuramu and approved by AICTE, New Delhi)

DEPARTMENT OF CSE

INDUSTRIAL VISIT REPORT

Date: 12-5-2022

CLASS: IV B. Tech CSE

DATE: 5/05/2022 at 11:00 am

FACULTY MEMBERS: 1. Mr. T. SURESH

2. Mrs. K.S. GAYATHRI

INDUSTRY VISITED: RioSH Tech., Bangalore

An Industrial visit at “RioSH Tech” was done by the IV B.Tech.CSE, Final year students on 5th May 2022.

THE JOURNEY AND STAY



The industrial visit was started with 19 students of the class, accompanied by the faculty Mr. T. Suresh and Mrs. K.S. Gayathri. All the students were very excited and left the campus on 4th May