

Department of Electronics

Activity : International Day against Drug Abuse, Dated :26-06-2019



Department of Electronics

Activity : World's Population Day

Dated :11-07-2019

Department of Electronics has participated in Rally on World's Population Day.



Department of Electronics



Activity : World's Population Day

Dated :11-07-2019

Poster Presentation by students....

Department of Electronics



Department of Electronics



Activity : Mid-Week Tests

Dated :20-07-2019

Weekly Tests has been conducting by the Department for all the 3- years students

Department of Electronics



Department of Electronics



Activity : Game

Dated :27-07-2019

A Game which is called Electronics Circuit Symbols and their Names has conducted for III MECs students to recollect the basics and to gain knowledge about the Electronics circuits.

Department of Electronics



Department of Electronics



Activity : Game on Circuit Symbols

Dated :27-07-2019

Department of Electronics



Department of Electronics



Activity : Student Seminar

Dated :02-08-2019

Name of the Student: S,K. Nimra Sadiya(I MECs)

Topic: Mean value of sinusoidal wave

Department of Electronics



Department of Electronics

Activity : Independence Day Celebrations

Dated :15-08-2019



Department of Electronics



Activity : Digital Class

Dated :21-08-2019

Class: III MECs

Name of the Topic: 8255 & 8155 PPI





Department of Electronics



Department of Electronics

Activity : Fresher's Day

Dated :27-08-2019

Online Courses Certificates issued to Students with Our honorable MLC Sri.
Vennepusala Gopala Reddy Garu

Department of Electronics

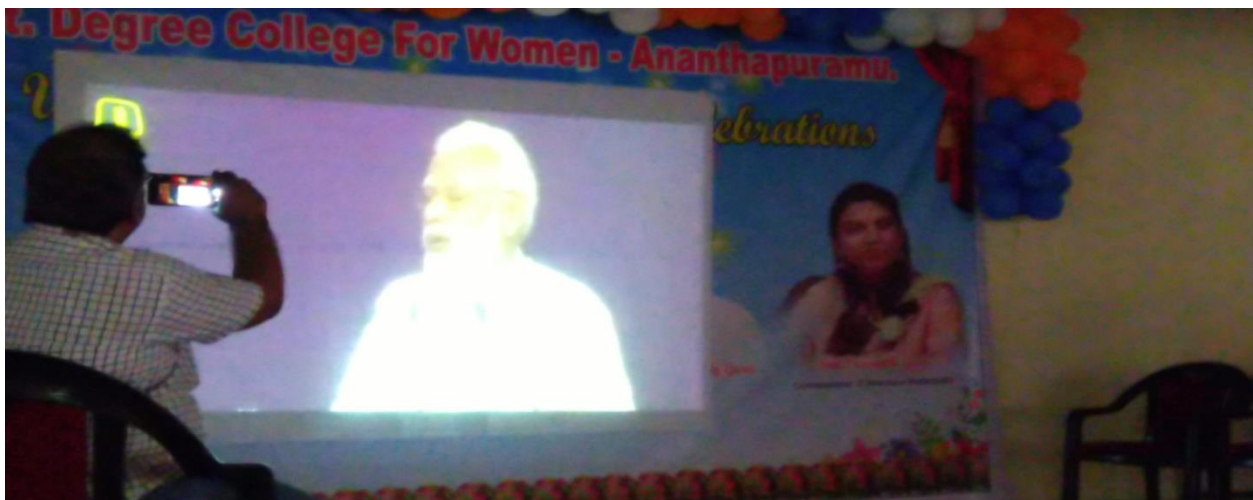


Department of Electronics

Activity : Fit India Movement

Dated :29-08-2019

All the departments have watched the live Inaugural program of PM's Fit India Movement



Department of Electronics



Activity : Teacher's Day

Dated :05-09-2019



Department of Electronics



Department of Electronics

Activity : Alumni Students Meet

Dated :07-09-2019

Interaction with the alumni students who are working for KIML company which is in Pala Samudram and a supporting company of KIA, Penukonda, Ananthapuram



B. Shiney Snehalatha, Guest Faculty in Electronics along with P. Sahithi, T. Jyoshna, and Manjula (2017- 2019) Batch.

Department of Electronics

Activity : Field Visit

Dated :07-09-2019

Field Visit to District Science Museum

Department of Electronics

Ananthapuramu,

Date: 6-09-2019

To
The Principal,
KSN Government Degree College For Women,
Bhairav Nagar,
Ananthapuramu.

From
S. Pavani,
Lecturer in Physics

Respected Sir,

Sub:- Permission to visit "DISTRICT SCIENCE MUSEUM" - Request -
Regarding.

Chief Superintendent
Centre: 003
KSN Government College (W)
ANANTHAPURAM

6.9.19
I hereby submit that the Department of Electronics and Physics has planned a visit to "DISTRICT SCIENCE MUSEUM" for the I MECs, I MPCs & I MPC (EM & TM) on 7-09-2019 in the afternoon session.

Hence I request you to kindly permit us to visit Museum on the tentative date.

Thanking You Sir,

Yours faithfully,

S. Pavani
6/9/19
(S. PAVANI)

Department of Electronics



Department of Electronics



Department of Electronics



Department of Electronics



Activity : Student Seminar

Dated :09-09-2019

Name of the Student: K. Haseena, I MECs

Topic: LR High Pass Filter

Department of Electronics

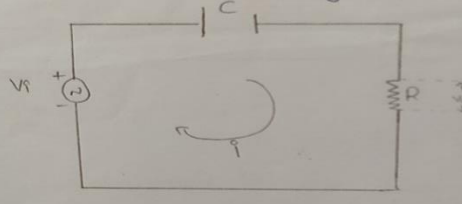


Frequency Response of RC-circuit.

a) High Pass RC circuit :-

A high Pass filter RC circuit is one which passes By only high frequencies." But rejects low frequencies cut off frequency.

A high Pass filter RC circuit using capacitor and resistance and its frequency response is as shown in figure.




A sinusoidal voltage V_i is applied to the circuit. The output is taken across the resistor R .

We know that capacitive reactance ' X_c ' is Inversely Proportional.

$X_c \propto \frac{1}{f}$

Therefore at low frequencies capacitor offers high opposition to the flow of current. Therefore at low frequency capacitor acts as open circuit.

At high frequencies the capacitors resistance has so small that the capacitor almost act as a short circuit. So all the input appears at o/p.

Hence it is known as high Pass circuit.

Input voltage $V_i = V_m \sin \omega t$ → ①
 output voltage $V_o = ?$

Department of Electronics

Activity : Student Seminar

Dated :09-09-2019

Name of the Student: P. Vijaya Lakshmi, IMECs

Topic: LR High Pass Filter



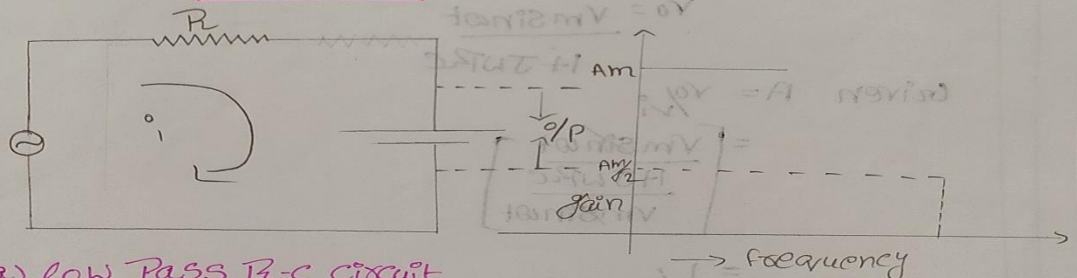
Department of Electronics

Frequency Response of RC Circuit

Low Pass R-C circuit :-

A low Pass Filter circuit is one which passes only frequency. A low Pass RC circuit and its frequency response is as shown in fig.

$$X_c \propto 1/f$$



(a) Low Pass R-C circuit

At low frequencies capacitor offers very high reactance and acts as an open circuit. Therefore, almost all the input appears at the output. Hence it passes low frequencies.

(b) Frequency response

At high frequencies, the capacitor offers low reactance and acts as a short circuit. So, all the input goes to the ground. Hence it

Activity : Student Seminar

Dated : 11-09-2019

Name of the Student: M. Subhashini, II MECs

Topic: CMOS NAND

Department of Electronics



Department of Electronics

Activity : Student Seminar

Dated :12-09-2019

Name of the Student: K. Manasa,III MECs

Topic: PAM



Department of Electronics

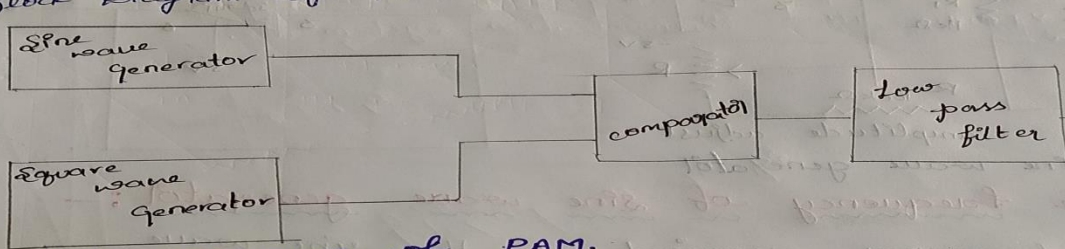
ELECTRONICS ASSIGNMENT
Pulse Amplitude Modulation:-

PAM is defined as the Amplitude of the carrier pulse is proportional to the Amplitude of the Modulating signal. Here carrier wave is produced by a pure sine wave generator & a square wave generator. By combining these two waves we get carrier wave (CW) carrier pulse is produced.

Here we can use Sine wave generator, comparator, square wave generator, low pass filter.

comparator can compare the outputs of both generators.

Block Diagram of PAM is shown below.



```

graph LR
    Sine[Sine wave generator] --> Comp[comparator]
    Square[Square wave generator] --> Comp
    Comp --> Filter[Low pass filter]
    
```

Block Diagram of PAM.

Sine wave generator:-

In Sine wave generator we use potentiometer because of adjust frequency & amplitude to produce Sine wave.

To construct these circuit we can use the circuit format of "Wein Bridge Oscillator" (WBO).

Activity : Student Seminar

Dated :12-09-2019

Name of the Student: S. Kalyani Bai, III MECs

Topic: PPM

Department of Electronics



Pulse Position Modulation (PPM) :—

Pulse position modulation is a modulation technique designed to achieve the goals like simple transmitter and receiver circuitry, noise performance, constant band width and the power efficiency and constant transmitter power.

In pulse position modulation the amplitude of the pulse is kept constant as in the case of the FM and PWM to avoid noise interference. Unlike the PWM the pulse width is kept constant to achieve constant transmitter power. The modulation is done by varying the position of the pulse from the mean position according to the variations in the amplitude of the modulating signal. This article discusses the technique of generating a PPM wave corresponding to modulating sine wave.

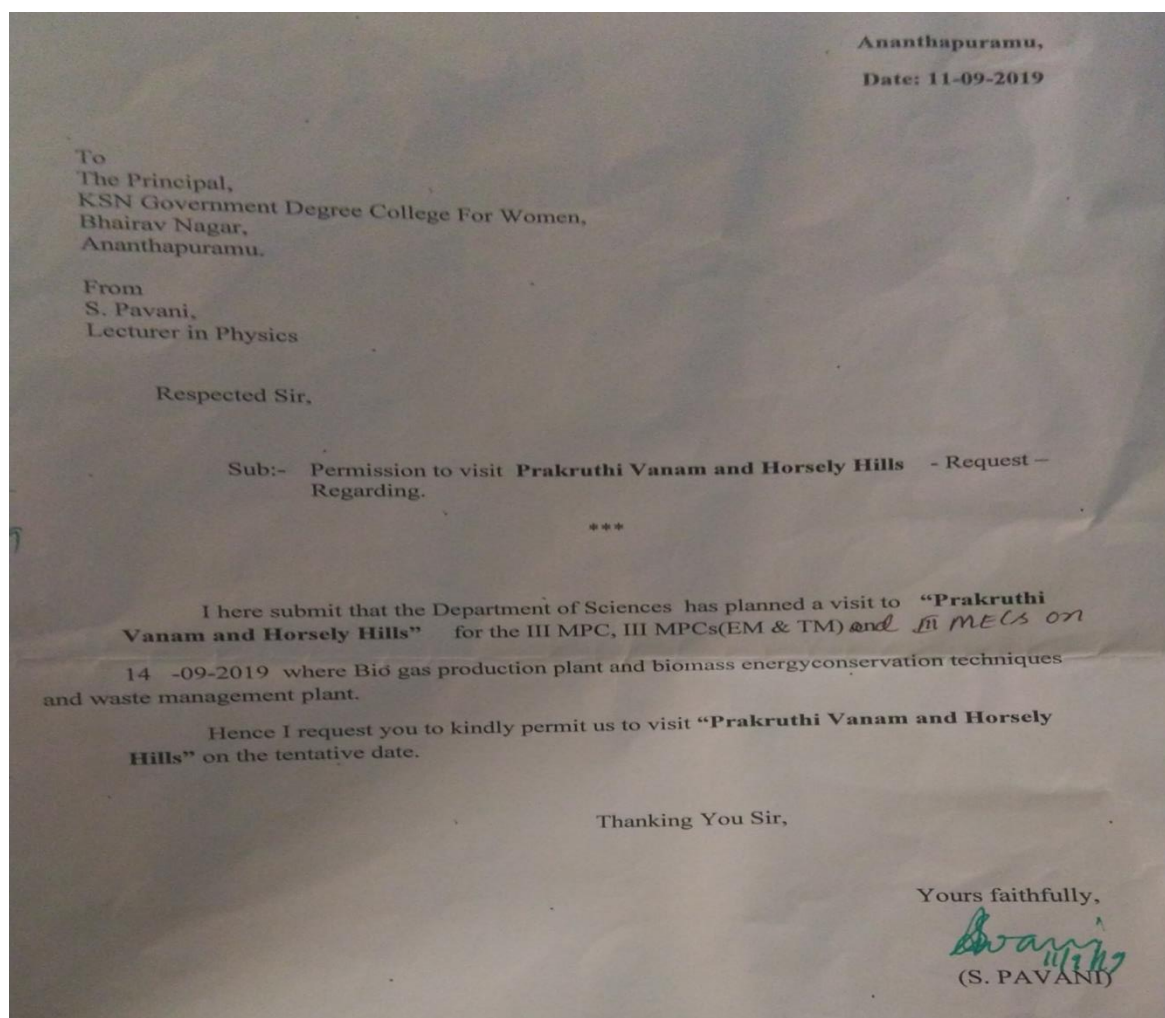
Description :—

The pulse position Modulation (PPM) can be actually generated from a PWM waveform which has been modulated according to the input signal wave. The technique is to generate a very small pulse of constant width at the end of the duty time of each and every PWM pulses. The PPM Modulation of an input signal can be achieved using the following circuit blocks.

Department of Electronics

Activity : Field Trip to Horsley Hills

Dated :14-09-2019



Department of Electronics



Department of Electronics



List of students to Field Visit	
Name	Signature
P. H. Chandrika	P. H. Chandrika
V. Roja	V. Roja
C. Roja	C. Roja
S. Kalyani Bai	S. Kalyani Bai

Report: Final MECs students went to Horsley Hills and Prakruthi Vanam near Madana Palli Chittoor District. At Horsley Hills we visited Science Museum and Zoo. Later Visited Prakruthi Vanam there Our Students learnt about making of Soaps and Shampoos Naturally.

Activity : Group Discussion for I MECs

Dated :17-09-2019

Department of Electronics



Department of Electronics

Activity : Group Discussion for II MECs Dated :17-09-2019



Department of Electronics

Activity : Career Guidance

Dated :19-09-2019

Career Guidance by Dr. C. Rakesh for all MECs Students

Department of Electronics

Ananthapuramu,
Dated: 16-09-2019.

To
The Principal,
KSN Government Degree College (Women),
Behind R.T.A. Office,
Bhairav Nagar,
Ananthapuramu.

From
S. Pavani,
Lecturer in Physics,

Respected Sir,

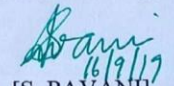
Sub:- Permission for arranging "Career Guidance" Program- Request -
Regarding.

I here submit that the Department of Electronics is planning a Lecture on Career Guidance for the students of III B.Sc (M.P.Cs, M.E.Cs & M.P.C) as they are going to be graduates next year the Guest Mr. Dr. C. Daniel Rakesh is a recipient of **"North Delhi Cultural Academy Award-2019"** .

Hence I request you to permit us to conduct the program in Auditorium on 19-09-2019 by 3PM.

Thanking you Sir.

Yours faithfully,


[S. PAVANI]

Department of Electronics

Activity : Career Guidance

Dated :19-09-2019

Career Guidance by Dr. C. Rakesh for all MECs Students



S. Lakshmi Rangaiah, Incharge of Sciences, C. Rakesh, Guest, B. Shiney Snehalatha, Guest Faculty in Electronics on the Dias.

Department of Electronics



Department of Electronics

(అను నామ)

తేది: 20/9/2019

ఎలక్ట్రానిక్స్ విభాగం ఆధ్వర్యంగా ఎలక్ట్రానిక్స్ మరియు ఫజిక్స్
 విద్యార్థినులకు ఉపగాహన కార్యక్రమం నిర్వహించడం జరిగిందని
 K.S.N. ప్రభుత్వ మహిళా డిగ్రీ కళాశాల ప్రిన్సిపల్స్ శ్రీ. జాక్షి
 P. కంకరయ్య దిన్నారు. విద్యార్థులకు ఉచితంగా ఉపకాశాల పై
 ఉపగాహన కార్యక్రమానికి ముఖ్యఅధికారిగా జా.పి. జానియత్
 రాకెట్ నిర్వహించారు. ఈ సందర్భంగా ఆయన మాట్లాడుతూ
 విద్యార్థులకు ఒక లక్షల కంటే ఎక్కువగా పాఠ్యపుస్తకాలను సహజంగా
 ప్రకాశం ప్రకారం పంపిణీ చేసినట్లు విద్యార్థులను తెలియజేశారు.
 విద్యార్థుల ప్రతి విషయాన్ని ఆసక్తిగా తెలుసుకోవాలన్నారు.
 విద్యార్థుల విద్యలో పాటు ఉపాధి ఉపకాశాల గురించి
 తెలుసుకోవాలన్నారు. ఈ సందర్భంగా ప్రపంచంలో ఉన్న ఉపకాశాల
 ఉపగాహన కురిసి ఉండాలన్నారు. ఎలక్ట్రానిక్స్ విద్యార్థులకు ముఖ్య
 ఉపాధి ఉపకాశాల ఉన్నాయని, సైన్సు విద్యార్థులకు పరిశోధన
 నా ఉపకాశాల చాలా ఉన్నాయని, ఉపకాశాలను సర్వ
 నియోగం చేసుకోవాలన్నారు. విద్యలో పాటు ప్రతిక
 విలువలతో కూడిన ఉపకాశాలను పెంపొందించాలన్నారు.
 స్వీయంగా ఉపాధి ఉపకాశాల ఏర్పాటుకోవాలన్నారు. ఉచితంగా
 ప్రకటనలు తెలియజేసి పాఠ్య పుస్తకాలకు ప్రకాశం
 ప్రకారం పంపిణీ చేసారు. అందుకు సాధ్యమే వరకు సహాయ
 ప్రయత్నించాలన్నారు. ఈ కార్యక్రమంలో శ్రీమతి. జా.పి. జానియత్
 శ్రీమతి. S. పావని శ్రీ S. లక్ష్మీరంగమ్మగారు కివీ ప్రకాశం సహాయ
 ఉపకాశాలను పాల్గొన్నారు.

Department of Electronics

Activity : Digital Class

Dated :23-09-2019

Given an ICT based lecture using Digital Class for IMECs on LC Circuit and Resonance.



Department of Electronics

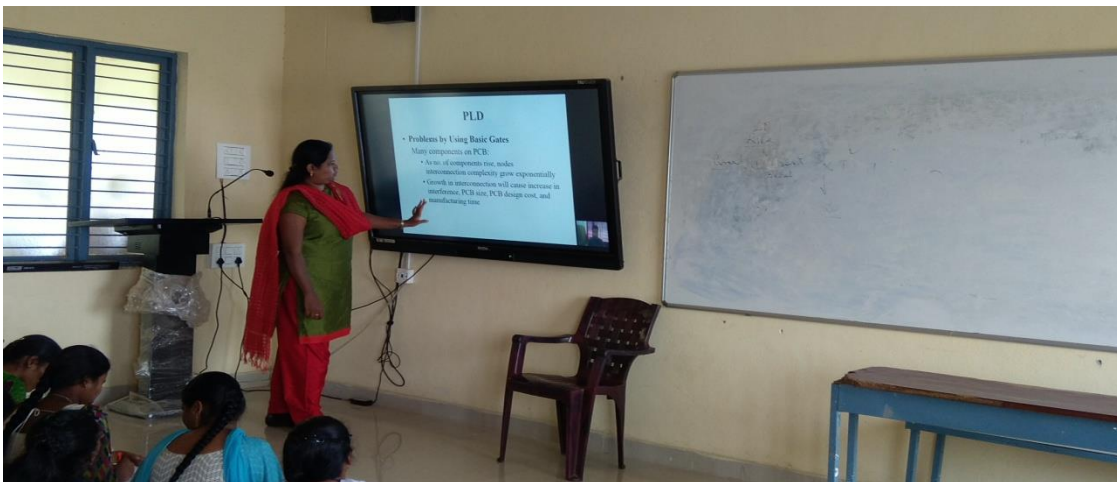


Department of Electronics

Activity : Digital Class

Dated :28-09-2019

Given an ICT based lecture using Digital Class for II MECs on Programmable Logic Devices.



Department of Electronics

Activity : ICT

Dated :21-10-2019

Showing Online Courses to II MECs Students on COURSERA



Department of Electronics



Activity : Campus Drive by Sakshi

Dated :29-11-2019

Department of Electronics

Indira Television Limited

6-3-248/3, Sakshi Towers, Road No. 1, Banjara Hills, Hyderabad - 500 034.
Ph.: +91 40 2325 6000, Fax: +91 40 23386005



Date :

To

The Principal.

Dear Sir/Madam,

Sakshi Media Group & Gillette would like to request you kind consent to organize a job oriented activity "Vijayam Mee Gupittlo " in your esteemed institute .This is a unique event where in we all provide useful insight in the form of grooming workshop to enable the student to manage the job interview with prospective employers, in the near further. This will be followed by shaving experience for male student to impress upon them the important of a clean look.

After the grooming experience the anchor will asked the final year student to reassemble for a test to select the best student who will represent the college with other college winners from across the state of Andhra Pradesh for an employment opportunity with a renowned media house.

We would be highly obliged for all your support and encouragement and request you to grand us the permission to hold this event in your campus and with your support let us make this a grand success.

- **Date:**
- **Time:**
- **Duration: Maximum 3 hours**
- **Location: college Auditorium**
- **Audience: student of your college**

This session is open to all students, irrespective of whether they participate in the grooming session or not.

This program will be free of cost for all the participants and will be conducted widely by Sakshi Media Group . We hope that your permission the student will alive this wonderful opportunity to learn more about and how's of getting a decent employment.

Thanking you in anticipations.

Your Sincerely

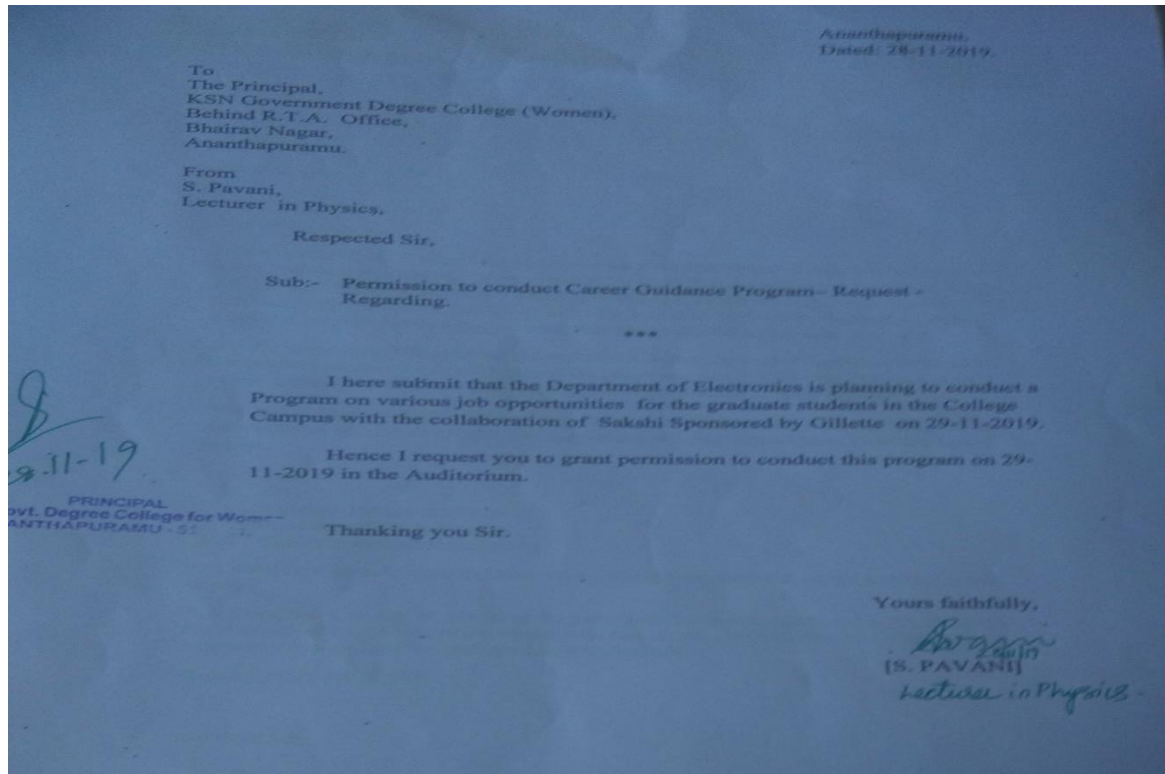
Rani Reddy
Director Corporate - Affairs
Sakshi Media Group
Hyderabad



CIN-U32101TG2005PLC045392

www.sakshi.com

Department of Electronics





Department of Electronics



Report:

A Campus drive was conducted by Sakshi Media on behalf of Electronics Department. Firstly Conducted a Written test on general knowledge for only Final year students of Our College . Later Certificates were distributed by the Principal Dr. P. Shankaraiah Sir for the First three Winners. Then Dr. C. Daniel Rakesh had shared a few words regarding the Campus drive and nature of the job and its benefits . Department Incharge S. Pavani, Lecturer in Physics has attended the Program.

Signature of the Students attended for the Written Exam:

Department of Electronics

Name of the Student	Class	Signature
1. M. Sai Jyothi	III B.Sc MPCs	M. Sai Jyothi
2. S. Rujana	III B.Sc MPCs	S. Rujana
3. H. Chandralekshmi	III B.Sc MPCs	H. Chandralekshmi
4. M. Geetha	III B.Sc MPCs	M. Geetha
5. B. Nagma	III B.Sc MPCs	B. Nagma
6. M. Anitha	III B.Sc MPCs	M. Anitha
7. S. Nagendramma	III B.Sc MPCs	S. Nagendramma
8. R. Rajeswari	III B.Sc MPCs	R. Rajeswari
9. V. Manika	III B.Sc MPCs	V. Manika
10. D. Afroz Banu	III B.Sc MPCs	D. Afroz Banu
11. U. Lakshmi	III B.Sc MPCs	U. Lakshmi
12. J. Purnima	III B.Sc MPCs	J. Purnima
13. G. Divya	III B.Sc MPCs	G. Divya
14. S. Chaitanya	III B.Sc MPCs	S. Chaitanya
15. R. Suguna	III B.Sc MPCs	R. Suguna
16. M. Geetha	III B.Sc MPCs	M. Geetha
17. V. Manika	III B.Sc MPCs	V. Manika
18. D. Swarna	III B.Sc MPCs	D. Swarna
19. B. Anitha	III B.Sc MPCs	B. Anitha
20. K. Sunitha	III B.Sc MPCs	K. Sunitha
21. B. Sonika Kumari	III B.Sc MPCs	B. Sonika Kumari
22. B. Geetha	III B.Sc MPCs	B. Geetha
23. B. Sriisha	III B.Sc MPCs	B. Sriisha
24. B. Krishnaveni	III B.Sc MPCs	B. Krishnaveni
25. B. Sneha Lakshmi	III B.Sc MPCs	B. Sneha Lakshmi
26. M. Supriya	III B.Sc MPCs	M. Supriya
27. J. Prathapadha	III B.Sc MPCs	J. Prathapadha
28. B. Anitha	III B.Sc MPCs	B. Anitha

29. T. Partha	III B.Sc MPCs	T. Partha
30. K. Sangeetha	III B.Sc MPCs	K. Sangeetha
31. K. Sangeetha	III B.Sc MPCs	K. Sangeetha
32. G. Rupa	III B.Sc MPCs	G. Rupa
33. K. Sangeetha	III B.Sc MPCs	K. Sangeetha
34. B. Anitha	III B.Sc MPCs	B. Anitha
35. P. Manika	III B.Sc MPCs	P. Manika
36. K. Sangeetha	III B.Sc MPCs	K. Sangeetha
37. B. Sangeetha	III B.Sc MPCs	B. Sangeetha
38. C. Anitha	III B.Sc MPCs	C. Anitha
39. V. Sangeetha	III B.Sc MPCs	V. Sangeetha
40. M. Lakshmi	III B.Sc MPCs	M. Lakshmi
41. D. Anitha	III B.Sc MPCs	D. Anitha
42. G. Sangeetha	III B.Sc MPCs	G. Sangeetha
43. D. Anitha	III B.Sc MPCs	D. Anitha
44. V. Sangeetha	III B.Sc MPCs	V. Sangeetha
45. U. Manika	III B.Sc MPCs	U. Manika
46. B. Anitha	III B.Sc MPCs	B. Anitha

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23. B. Sriisha	III B.Sc MPCs	B. Sriisha
24. B. Krishnaveni	III B.Sc MPCs	B. Krishnaveni
25. B. Sneha Lakshmi	III B.Sc MPCs	B. Sneha Lakshmi
26. M. Supriya	III B.Sc MPCs	M. Supriya
27. J. Prathapadha	III B.Sc MPCs	J. Prathapadha
28. B. Anitha	III B.Sc MPCs	B. Anitha

1. K. Sunitha	III B.Sc MPCs	K. Sunitha
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5. H. Sangeetha	III B.Sc MPCs	H. Sangeetha
6. K. Veena	III B.Sc MPCs	K. Veena
7. G. Anitha	III B.Sc MPCs	G. Anitha
8. P. Sangeetha	III B.Sc MPCs	P. Sangeetha
9. D. Sangeetha	III B.Sc MPCs	D. Sangeetha
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12. B. Sangeetha	III B.Sc MPCs	B. Sangeetha
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16. D. Sangeetha	III B.Sc MPCs	D. Sangeetha
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18. P. Sangeetha	III B.Sc MPCs	P. Sangeetha
19. D. Sangeetha	III B.Sc MPCs	D. Sangeetha
20. V. Sangeetha	III B.Sc MPCs	V. Sangeetha
21. U. Sangeetha	III B.Sc MPCs	U. Sangeetha
22. B. Sangeetha	III B.Sc MPCs	B. Sangeetha
23. C. Sangeetha	III B.Sc MPCs	C. Sangeetha
24. V. Sangeetha	III B.Sc MPCs	V. Sangeetha
25. M. Sangeetha	III B.Sc MPCs	M. Sangeetha
26. D. Sangeetha	III B.Sc MPCs	D. Sangeetha
27. G. Sangeetha	III B.Sc MPCs	G. Sangeetha
28. P. Sangeetha	III B.Sc MPCs	P. Sangeetha
29. D. Sangeetha	III B.Sc MPCs	D. Sangeetha
30. V. Sangeetha	III B.Sc MPCs	V. Sangeetha
31. U. Sangeetha	III B.Sc MPCs	U. Sangeetha
32. B. Sangeetha	III B.Sc MPCs	B. Sangeetha
33. C. Sangeetha	III B.Sc MPCs	C. Sangeetha
34. V. Sangeetha	III B.Sc MPCs	V. Sangeetha
35. M. Sangeetha	III B.Sc MPCs	M. Sangeetha
36. D. Sangeetha	III B.Sc MPCs	D. Sangeetha
37. G. Sangeetha	III B.Sc MPCs	G. Sangeetha
38. P. Sangeetha	III B.Sc MPCs	P. Sangeetha
39. D. Sangeetha	III B.Sc MPCs	D. Sangeetha
40. V. Sangeetha	III B.Sc MPCs	V. Sangeetha
41. U. Sangeetha	III B.Sc MPCs	U. Sangeetha
42. B. Sangeetha	III B.Sc MPCs	B. Sangeetha
43. C. Sangeetha	III B.Sc MPCs	C. Sangeetha
44. V. Sangeetha	III B.Sc MPCs	V. Sangeetha
45. M. Sangeetha	III B.Sc MPCs	M. Sangeetha
46. D. Sangeetha	III B.Sc MPCs	D. Sangeetha
47. G. Sangeetha	III B.Sc MPCs	G. Sangeetha
48. P. Sangeetha	III B.Sc MPCs	P. Sangeetha
49. D. Sangeetha	III B.Sc MPCs	D. Sangeetha
50. V. Sangeetha	III B.Sc MPCs	V. Sangeetha
51. U. Sangeetha	III B.Sc MPCs	U. Sangeetha
52. B. Sangeetha	III B.Sc MPCs	B. Sangeetha
53. C. Sangeetha	III B.Sc MPCs	C. Sangeetha
54. V. Sangeetha	III B.Sc MPCs	V. Sangeetha
55. M. Sangeetha	III B.Sc MPCs	M. Sangeetha
56. D. Sangeetha	III B.Sc MPCs	D. Sangeetha
57. G. Sangeetha	III B.Sc MPCs	G. Sangeetha
58. P. Sangeetha	III B.Sc MPCs	P. Sangeetha
59. D. Sangeetha	III B.Sc MPCs	D. Sangeetha
60. V. Sangeetha	III B.Sc MPCs	V. Sangeetha
61. U. Sangeetha	III B.Sc MPCs	U. Sangeetha
62. B. Sangeetha	III B.Sc MPCs	B. Sangeetha
63. C. Sangeetha	III B.Sc MPCs	C. Sangeetha
64. V. Sangeetha	III B.Sc MPCs	V. Sangeetha
65. M. Sangeetha	III B.Sc MPCs	M. Sangeetha
66. D. Sangeetha	III B.Sc MPCs	D. Sangeetha
67. G. Sangeetha	III B.Sc MPCs	G. Sangeetha
68. P. Sangeetha	III B.Sc MPCs	P. Sangeetha
69. D. Sangeetha	III B.Sc MPCs	D. Sangeetha
70. V. Sangeetha	III B.Sc MPCs	V. Sangeetha
71. U. Sangeetha	III B.Sc MPCs	U. Sangeetha
72. B. Sangeetha	III B.Sc MPCs	B. Sangeetha
73. C. Sangeetha	III B.Sc MPCs	C. Sangeetha
74. V. Sangeetha	III B.Sc MPCs	V. Sangeetha
75. M. Sangeetha	III B.Sc MPCs	M. Sangeetha
76. D. Sangeetha	III B.Sc MPCs	D. Sangeetha
77. G. Sangeetha	III B.Sc MPCs	G. Sangeetha
78. P. Sangeetha	III B.Sc MPCs	P. Sangeetha
79. D. Sangeetha	III B.Sc MPCs	D. Sangeetha
80. V. Sangeetha	III B.Sc MPCs	V. Sangeetha
81. U. Sangeetha	III B.Sc MPCs	U. Sangeetha
82. B. Sangeetha	III B.Sc MPCs	B. Sangeetha
83. C. Sangeetha	III B.Sc MPCs	C. Sangeetha
84. V. Sangeetha	III B.Sc MPCs	V. Sangeetha
85. M. Sangeetha	III B.Sc MPCs	M. Sangeetha
86. D. Sangeetha	III B.Sc MPCs	D. Sangeetha
87. G. Sangeetha	III B.Sc MPCs	G. Sangeetha
88. P. Sangeetha	III B.Sc MPCs	P. Sangeetha
89. D. Sangeetha	III B.Sc MPCs	D. Sangeetha
90. V. Sangeetha	III B.Sc MPCs	V. Sangeetha
91. U. Sangeetha	III B.Sc MPCs	U. Sangeetha
92. B. Sangeetha	III B.Sc MPCs	B. Sangeetha
93. C. Sangeetha	III B.Sc MPCs	C. Sangeetha
94. V. Sangeetha	III B.Sc MPCs	V. Sangeetha
95. M. Sangeetha	III B.Sc MPCs	M. Sangeetha
96. D. Sangeetha	III B.Sc MPCs	D. Sangeetha
97. G. Sangeetha	III B.Sc MPCs	G. Sangeetha
98. P. Sangeetha	III B.Sc MPCs	P. Sangeetha
99. D. Sangeetha	III B.Sc MPCs	D. Sangeetha
100. V. Sangeetha	III B.Sc MPCs	V. Sangeetha

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Department of Electronics

Activity : Paper Reading in the Department by I MECs Dated :24-01-2020



Department of Electronics

Activity : A Program Conducted for free distribution of ANNADAATA Diaries and Magazine by ENAADU

Dated :25-01-2020



Department of Electronics



Activity : Medical Camp by Dr. working for Saveera Hospitals

Dated : 27-01-2020

Department of Electronics



కేఎస్ఎస్ కళాశాలలో

కిమ్స్ సవీర ఆధ్వర్యంలో వైద్య శిబిరం

అనంతపురం రూరల్, జనవరి 28(ప్రభుత్వం): నగరంలోని కేఎస్ఎస్ ప్రభుత్వ మహిళా డిగ్రీ కళాశాలలో డాక్టర్ వి.శంకరయ్య ఆధ్వర్యంలో కిమ్స్ సవీర హాస్పిటల్ ఆధ్వర్యంలో వైద్య శిబిరం నిర్వహించారు. ఈ శిబిరంలో గైన కాలజిస్ట్ డాక్టర్ శ్వేత విద్యార్థులకు జనరల్, గైనిక్ సమస్యలపై సలహాలను, మందులను పంపిణీ చేశారు. ఈ కార్యక్రమంలో మహిళా సాథికారిక విభాగం అధ్యక్షురాలు బి.హేమామాలిని, లెక్చరర్లు ఎం.విష్ణుప్రియ, టి.రేణుకాదేవి, టి.సైని నిహారిక, అనూప పాల్గొన్నారు.



విద్యార్థినులకు వైద్య పరీక్షలు చేస్తున్న డాక్టర్ శ్వేత

Department of Electronics

Activity : Awareness Program on **Superstitions** by Jana Chaitanya Vedika

Dated : 29-01-2020



Department of Electronics



Activity : Parent's Meet

Dated :30-01-2020

A meeting held in the Department with the Parent of B. Apoorva I MECs.

Department of Electronics



Department of Electronics

Student Seminars:

Name of the Student: S. Saileela

Topic: Data flow Description of Logic Gates

Date: 05-02-2020

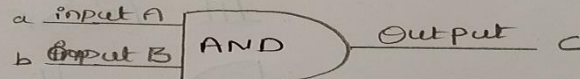


Department of Electronics

Data Flow and Description of Basic Gates :-

1. AND GATE :- The AND gate is a basic digital logic gate that implements logical conjunction. A HIGH output (1) results only if both the inputs to the AND gate are HIGH (1). If neither or only one input to the AND gate is HIGH, a low output results.

Logic diagram :-



Truth Table :-

input		Output
A	B	$Y = AB$
0	0	0
0	1	0
1	0	0
1	1	1

Verilog HDL program :-

```
Module and (C,a,b)
Output C =
input a,b;
assign C = a & b;
end module;
```

2. OR GATE :- The OR Gate is a digital logic gate that implements logical disjunction. A HIGH Output (1) results if any one or more inputs to the gate are HIGH (1). If neither input is HIGH, a Low output (0) results.

Name of the Student: C. Roja

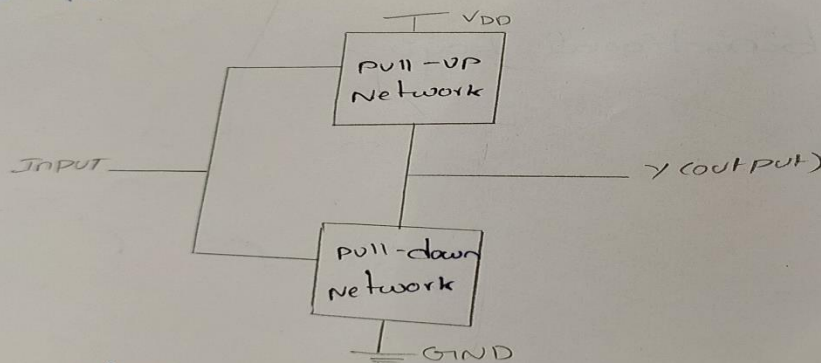
Topic: Combination Logic Gates

Department of Electronics

Date: 05-02-2020



COMBINATIONAL LOGIC:-
Inverter and NAND gates are examples of Complementary CMOS logic gates or static CMOS gates. It has a pull-down network to connect output to '0' (GND) and a pull-up network to connect output to '1' (VDD). The arrangement of network is such that one is ON and other is OFF for any input pattern. Fig 4.1.7 shows typical arrangement of pull-up and pull-down networks.



Arrangement of pull-up and pull-down Network
The pull-up and pull-down networks may consist of series or parallel combination of PMOS and NMOS transistors. Two (or) more transistors in series are ON if all the transistors are ON and the parallel transistor are ON if any of the parallel transistors are ON. By using this principle various combinations of selected

Department of Electronics

Name of the Student: J. Lakhmi

Topic: Radio Waves

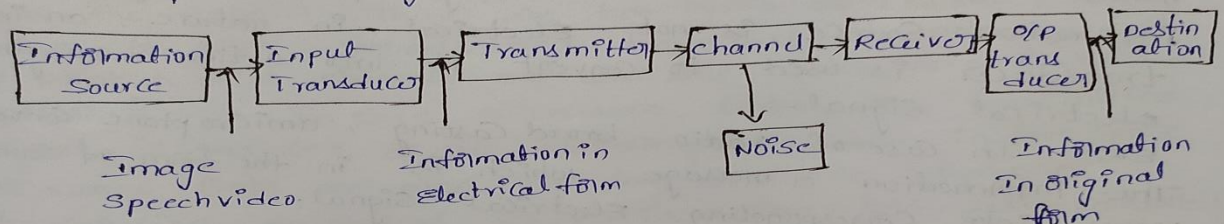
Date: 05-02-2020



Department of Electronics

Block diagram of Communication System:-

The block diagram of a general communication system, in which the different functional elements are represented by blocks.



The essential components of a communication system are information source, input transducer, transmitter, communication channel, receiver and destination.

i) Information Source:-

As we know a communication system serves to communicate a message or information. This information originates in the information source. In general, there can be various messages in the form of words, group of words, code, symbols, sound signal etc. However, out of these messages only the desired message is selected and communicated. Therefore, we can say that the function of information source is to produce required message which has to be transmitted.

Name of the Student: K. Akhila

Topic: Analog to Analog Conversion

Date: 06-02-2020

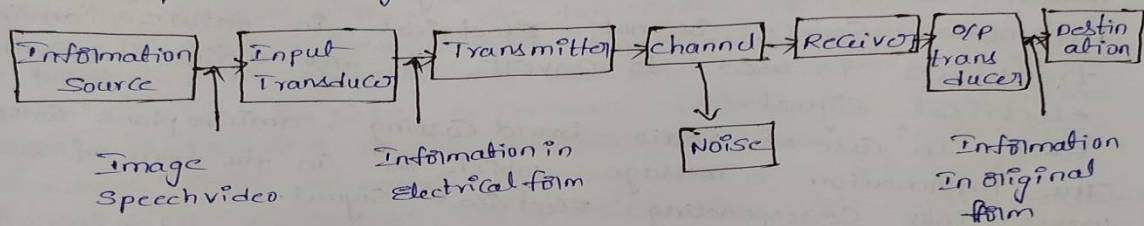
Department of Electronics



Department of Electronics

Block diagram of Communication System:-

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Name of the Student: R. Kalpana

Topic: Infrared Waves

Date: 06-02-2020

Department of Electronics



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Topic : INFRARED WAVES

Infrared waves :-

Infrared waves, with frequencies from 300 GHz to 400 THz (wave lengths from 1mm to 770nm), can be used for short range communication. Infrared waves, having high frequencies, cannot penetrate walls. This advantageous characteristic prevents interference between one system and another; a short range communication system in one room can't be affected by another system in the next room. When we use our infrared remote control, we do not interfere with the use of the remote by our neighbors. However, this same characteristic makes infrared signals useless for large range communication. In addition, we cannot use infrared waves outside a building because the sun's rays contain infrared waves that can interfere with the communication.

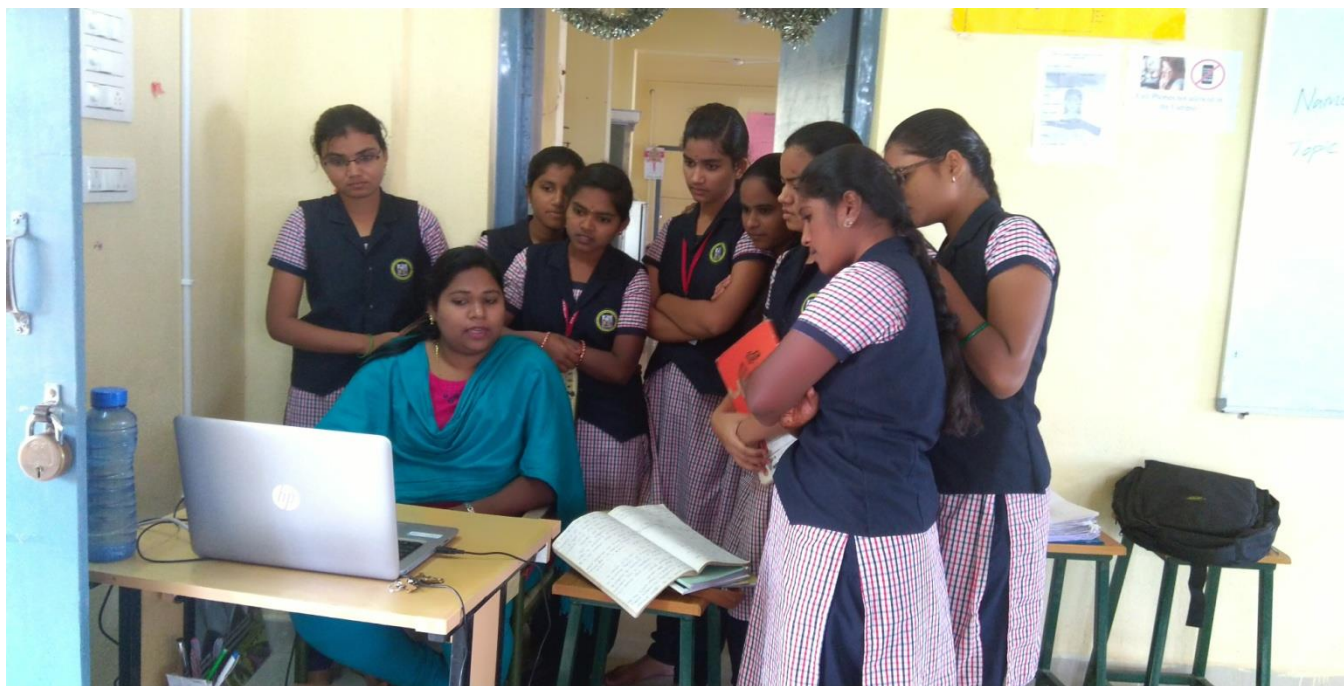
Applications :-

The infrared band, almost 400 THz, has an excellent potential for data trans such a wide bandwidth can be used to transmission digital data with a very high data rate. The Infrared data Association (IrDA), an association for sponsoring the use of infrared waves, has established standards for using these signals for communication between devices such as keyboards, mouse, pcs and printers.

Activity : PPT on SMPS for I MECs
2020

Dated :06-02-

Department of Electronics



Department of Electronics

Activity : Guest Lecture

Dated :14-02-2020

Department of Electronics

From

S. Mahesh,
Vocational Teacher -Trade Electronics.,
ZPHS, BKS(M),
Ananthapuramu District.

Ananthapuramu

Date: 13-02-2020

To

Mrs. B. Shiny Snehalatha,
Lecturer in Electronics,
Department of Electronics,
KSNGDC(W),
Ananthapuramu.

Madam,

Sub: Invitation for Guest Lecture – Request - Regarding.

Here by I extend my invitation to you to deliver a Guest Lecture on *Basics and Applications of Electronics* at Our School on 14-02-2020. Your presence is highly solicited at Our School.

Thanking You,

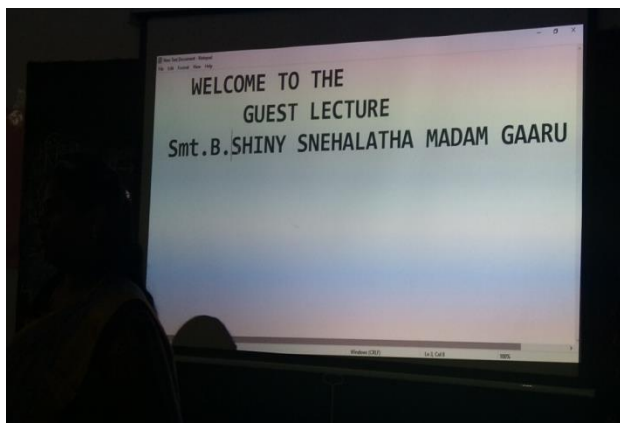
Yours truly,

(S. Mahesh)

Sumangalli
13/2/2020
Head Master
Z.P.H.S. B.K. Samudram
B.K. Samudram Mandal
Anantapur (Dt.)



Department of Electronics



Department of Electronics



Department of Electronics

S. Mahesh,
Vocational Teacher -Trade Electronics.,
ZPHS, BKS(M),
Ananthapuramu District.

Mobile No.: 8317528701

LETTER OF APPRECIATION

This is to certify that Mrs. B. Shiny Snehalatha, Lecturer in Electronics and Department of Electronics, delivered Guest Lecture at Our School on 14-02-2020 and spoke on the topic "Basics and Applications of Electronics". Her way of approaching the topic is praise worthy. The Students are benefited by her presentation. This Guest Lecture certainly would improve their perception levels on the above said topic. I thank her for her genuine presentation.

S. Mangella
Head Master
Z.P.H.S. BKS(M)
K. Sanyudram Mand
Ananthapur (D.)

M. S.

Department of Electronics

Activity : Peer Teaching

Dated :14-02-2020

Ananthapuramu,
Dated: 13-02-2020.

To
The Principal,
KSN Government Degree College (Women);
Behind R.T.A. Office,
Bhairav Nagar,
Ananthapuramu.

I

From
B. Shiny Snehalatha,
Guest Lecturer in Electronics,

Respected Sir,

Sub:- Permission to Visit to ZPHS, Bukkarayasamudram as a part of
Best Practice- Request - Regarding.

I here submit that the Department of Electronics is Planning to conduct a **Interactive Session** with the Students of ZPHS, BukkarayaSamudram Mandal, Ananthapuramu on 14-02-2020 at 2.00PM, as a part of Best Practice to Intiate the Social Responsibility among the Students.

Hence I request you to grant permission for II & III MECs Students to Visit ZPHS.

Thanking you Sir.

Yours faithfully,



[B. SHINY SNEHALATHA]

Department of Electronics



Department of Electronics



Peer teaching by II MECs

Department of Electronics



Peer Teaching by III MECs

Report:

III & II MECs students have given a peer teaching to the IX Standard Students of ZPHS, Bukkarayasamudram, Ananthapuram Dist. II MECs Students had explained about the basic elements and Circuit symbol of Electronics. III MECs have explained about the importance of Electronics, and advanced Technology & Gadgets of Electronics. Later III MECs students have shown them a few Modules and Applications of Electronics Practically.

Activity : Quiz for I MECs

Dated :15-02-2020

Department of Electronics



Department of Electronics

Department of Electronics
Quiz -81 I H.E.Cs Date:- 15/2/20

Participants Names :-

<u>Group A</u>	<u>Group B</u>
1. N. Rajakulayaramma	1. B. Lakshmi Bhavathi
2. R. Menaka	2. K. Mallika
3. S. Raja	3. P. Anitha
4. Smitli Bai	4. P. Vijaya Lakshmi
5. Gayathori	5. B. Kavitha
6. N. Manika	6. T. Vemela

<u>Group C</u>	<u>Group D</u>
1. G. Jaya Sudha	1. M. Manika
2. H. Bhavathi	2. B. Sujanya
3. K. Harena	3. P. Shrishta Bai
4. K. Uma Devi	4. S. Divya Vani
5. P. Haleema Begum	5. M. Sikkir
	6. G. Jyothi Kab

Scanned with CamScanner

<u>Group A</u>	<u>Group B</u>
0	1
0	1
1	0
0	0
0	0
0	0
0	0
1	1
1	X

<u>Group C</u>	<u>Group D</u>
0	1
0	1
0	0
0	0
0	0
0	0
0	0
1	1
1	1

→ Winning Group is "Group - B".

Scanned with CamScanner

Department of Electronics

Quiz Questions

- 1) What is Rectification ?
- 2) What is Diode ?
- 3) How many fixed voltage regulators ?
- 4) How many Polars are there BJT ?
- 5) Explain the specific of zener diode ?
- 6) What is depletion layer ?
- 7) How many terminals are there FET ? explain ?
- 8) What is tunnel diode ?
- 9) How many types are full wave rectifier ?
- 10) Applications of varactor diode ?



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