



SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu)

(Accredited by NBA for Civil, EEE, Mech., ECE & CSE)

(Accredited by NAAC with 'A' Grade)

Puttur -517583, Chittoor District, A.P. (India)

- 6.5.3 1. Supporting documents for Sr.No.2
&
2. List of activities conducted under collaborative quality initiatives with other institution

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K. S. Reddy
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Siddharth Institute of Engineering & Technology
Siddharth Nagar
PUTTUR - 517583, Chittoor Dist.



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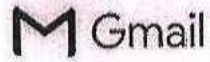
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6.5.3 Sr.No 2. Collaborative quality initiatives with other institution(s)

1. Proof of approval letter from IIT, Tirupati

10/29/2019

Gmail - Mentoring of SKIET - regarding



P.K Ghosh <prakgfmt@gmail.com>

Mentoring of SKIET - regarding

Thu, Jul 18, 2019 at 3:11 PM

Natarajan Srinivasan T <tsniit@iittp.ac.in>

To: prakgfmt@gmail.com

Cc: Satyanarayana KN <satyakn@iittp.ac.in>, "Dr.Suresh Jain" <sureshjain@iittp.ac.in>

Dear Prof Ghosh

I am happy to inform you that our Senate in its meeting on 8th May 2019 has approved the program to mentor your institute.

Hence I request you send as soon as possible a formal proposal giving details of the support and areas in which you wish to seek mentoring support from our Institute so that I can get it approved from our Director for taking this forward.

Best wishes and regards

Dr T S Natarajan

Dean, International and Alumni Affairs

Professor of Physics

Indian Institute of Technology Tirupati, Andhrapradesh, 517506

Phone: +91 877 2500304

Mobile: +91 8333904915

+91 9962609753

email: tsniit@iittp.ac.in

tsniit@gmail.com



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2. Circular



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Chittoor Dist., A.P., INDIA

IIT, Tirupati Mentorship Program -Jan – June 2020

CIRCULAR

04-03-2020

All faculty members attending IIT Mentorship classes are hereby informed to give presentation on the IITT mentorship progress (Course-wise) to Vice President as per the schedule given below.

S. No.	Date / Day	Department	Time
1	04.03.2020 (Wednesday)	EEE	12:00 to 1:00 PM
2	05.03.2020 (Thursday)	ECE	12:00 to 1:00 PM
3	06.03.2020 (Friday)	MECH	12:00 to 1:00 PM
4	07.03.2020 (Saturday)	CSE	12:00 to 1:00 PM
5	09.03.2020 (Monday)	CIVIL	12:00 to 1:00 PM


Venue: Vice President Chamber

Note: In the presentation, improvements in delivery method compare to our existing system on Lecture Notes, Tutorial and Assignments and how our Siddharth student got benefited in view of IIT Mentorship are to be explained in details


Co-ordinator

Copy to:

1. Chairman
2. Vice-President
3. Principal-SIETK
4. All HoDs – SIETK
5. Faculty members attending IIT Mentorship classes


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3.Participant List of IIT Mentorship program



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3. Participant List of IIT Mentorship program

Participation in Various Courses of different departments as running in Even Semester (Jan-June)-Academic Session 2019-20 in IIT, Tirupati				
Department	Course No. (IIT)	Course Title (IIT)	Name of the Faculty (SIETK)	Audit/Credit
Civil Engineering	CE2202	Structural Analysis	Mr. A. Mohan	Audit
	CE2294	Building Drawing	Mr. T. Suresh	Audit
Electrical and Electronics Engineering	EE5024	Machine Learning for Image Processing	Dr. N. Ramesh Raju	Audit
			Mr. S. Munisekhar	
Mechanical Engineering	ME2204	Manufacturing Technology	Mr. K Sai Sujith	Audit
			Ms. A S Pavithra	
Electronics & Communication Engineering	EE 2204	Solid State Devices	Dr.P.G.Gopinath	Audit
			Ms. D.Sakunthala	
Computer Science & Engineering	CS2202	Theory of Computation	Ms. Galli Saranya	Audit
			Ms. M. Bhavana	
	CS5204	Cloud Computing	Mr.P. Karthikeyan	Audit

DEAN-R & D

Dean - R&D
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3. Participant List of IIT Mentorship program

Participation in Various Courses of different departments as running in Even Semester (Jan-June)-Academic Session 2020-21 in IIT, Tirupati				
Department	Course No. (IITT)	Course Title (IITT)	Name of the Faculty	Credit/Audit
Civil Engineering	CE2294	Building Drawing	Mr. K V Maruthish	Audit
	CE2202	Structural Analysis - II	Mr. S. Venkataraman	Audit
Electrical and Electronics Engineering	EE2208	Electromagnetic Fields	Dr. J. Gowrishankar	Audit
	EE3202	Power Systems	Mr. T. Madhuranthaka	Audit
Electronics & Communication Engineering	EE2103	Signals & Systems	Mr. G.Raghul	Audit
			Dr. T.Senthil Kumar	
	EE2208	Electromagnetic Fields	Mr.K.D.Mohan Sundaram	Audit
			Mr. Dr.P.G.Kuppusamy	

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3. Participant List of IIT Mentorship program

Participation in Various Courses of different departments as running in Odd Semester (July-Dec)-Academic Session 2020-21 in IIT, Tirupati

Department	Course No. (IITT)	Course Title (IITT)	Name of the Faculty (Siddharth)	Credit/Audit
Civil Engineering	CE5109	Traffic Engineering and Road Safety	Mr. P. Naveen	Audit
	CE4010	Estimation and Construction Management	Ms. A. Jyoshna	Audit
Ms.S. Pranavi				
Electrical and Electronics Engineering	EE3103	Electrical Machines	Ms. V Manasa	Audit
	EE3105	Control Engineering	Mrs. C R Hemavathi	Audit
Mechanical Engineering	ME3107	Mechanical Measurements & Metrology	Mr. D.Krishnaiah	Audit
	ME3101	Heat and Mass Transfer	Mr. B A Devan	Audit
Electronics & Communication Engineering	EE3107	Communication Systems	Mr. M.Prasanth	Audit
			Mr. U.Srinivasulu	
Computer Science & Engineering	CS3109	Machine Learning	Mr.R.G.Kumar	Audit
			Mr.A.Sathish	
			Mr.P.Karthikeyan	

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4. Mentorship program- Minutes of the Meeting



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Chittoor Dist., A.P., INDIA

IIT Tirupati Mentorship Programme

MINUTES OF MEETING

Date: 25-10-2019

Time: 2.30 PM

Place: IIT, Tirupathi

Agenda of Meeting:

- ❖ To improve the teaching quality in Siddharth institutions.
- ❖ To enhance the project work in UG & PG programmes.
- ❖ Guidance in preparation of sponsored Research Projects in association with IIT Tirupati.

Members present:

From IIT, Tirupati	From Siddharth Institutions
1. Dr. Anil Kumar Emadabathuni Associate Professor & Head Mechanical Engineering anil@iittp.ac.in , 7879779188	1. Prof. Dr.P.K.Ghosh Vice President Siddharth Institutions
2. Dr. N.Venkaiah Associate Professor- Mechanical Engineering venkaiah@iittp.ac.in , 9441933382	2. Dr. S.Sunil Kumar Reddy, HoD-Mechanical, SIETK
3. Dr. N.N.Kishore Professor- Mechanical Engineering nnk@iittp.ac.in	3. Dr. F. Anand Raju, Professor-Mech./SIETK
	4. Dr. C. Sreedhar, Professor – Mech./SIETK
	5. Dr. P.G.Gopinath Co-ordinator


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The following points were discussed in the meeting:-

1. **Prof. Dr. P.K.Ghosh** explained about the agenda of the mentorship programme required for Siddharth Institutions to the experts of IIT, Tirupati.
2. **Dr. S. Sunil Kumar Reddy** discussed about the subjects and the contents required as per Siddharth syllabus with IIT, Tirupati. Based on the discussion, the subject Machine tools and Metrology can be handled by **Dr. N. Venkaiah**, IIT Tirupati and shared his time table as he is teaching the topics of interest. It was decided to attend the lectures as follows. The schedule for Machine tools and Metrology:
 - ❖ Wednesday – 10.25 AM to 11.40 AM
 - ❖ Thursday – 11.40 AM to 1.00 PM
3. **Dr. N. Venkaiah** also accepted that from next week onwards ie., 30.10.2019 & 31.10.2019, faculty members teaching the particular subject will attend the above subject classes.
4. **Dr. Anil Kumar Emadabathuni**, IIT, Tirupati also shared that the subject Thermodynamics for P.G. (M.Tech.) can also be taught by him. The contents is not exactly matched with Siddharth syllabus and a part of concepts can be learnt by the Siddharth faculty members. Dates for attending the classes in IIT, Tirupati will be decided in consultation. The Schedule for Thermodynamics:-
 - ❖ Monday – 10.25 AM to 11.40 AM
 - ❖ Tuesday- 10.25 AM to 11.40 AM
5. **Dr. S.Sunil Kumar Reddy** shared Siddharth Students M.Tech., Project details to **Dr. Anil Kumar Emadabathuni**. He suggested that project work can be carried out with mutual discussions of internal faculty members (Guides) of Siddharth and expert faculty of IIT, Tirupati from broad subject areas. Necessary action in this regard shall be taken immediately.

K. Reddy
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[Signature]
Dr. P.G. Gopinath
Co-ordinator



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IIT Tirupati Mentorship Programme

MINUTES OF MEETING

Date: 04-12-2019

Time: 2.00 PM

Place: IIT, Tirupati

Agenda of Meeting:

- ❖ To improve the teaching quality for faculty of EEE & ECE Departments in Siddharth institutions.
- ❖ To Enhance Project work of ECE & EEE U.G. students.

Members present:

From IIT, Tirupati	From Siddharth Institutions
1. Dr. Rama Krishna Sai Gorthi Associate Professor & Head Faculty of Electrical Engineering	1. Prof. Dr.P.K.Ghosh Vice President Siddharth Institutions
2. Dr. K P Naveen Assistant Professor Faculty of Electrical Engineering	2. Dr. P.Ratnakamala, HoD-ECE, SIETK 3. Dr.N.Ramesh Raju, HoD-EEE, SIETK
3. Dr. Subrahmanyam Gorthi Assistant Professor Faculty of Electrical Engineering 4. Dr. Pooja Vyavahare Assistant Professor Faculty of Electrical Engineering	4. Dr. S.L. Arun, Professor-EEE/SIETK 5. Dr. P.G.Gopinath Co-ordinator-IIT Mentorship Programme, Siddharth Institutions

The following points were discussed in the meeting:-

1. **Prof. Dr. P.K.Ghosh** explained about the agenda of the mentorship programme required for Siddharth Institutions to the experts of IIT, Tirupati.
2. **Dr. Rama Krishna Sai Gorthi** welcomed all the Siddharth team
3. **Dr. N.Ramesh Raju** introduced about the department and shared the topics required with IIT Team

K. Venkatesh
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4. **Dr. P.Ratnakamala** discussed with IIT Team about the subjects and the contents required as per Siddharth syllabus with IIT, Tirupati.
5. **Dr. Rama Krishna Sai Gorthi** appointed **Dr. K.P. Naveen** to co-ordinate with Siddharth faculty members for IIT Mentorship. The content of the course will be shared to HoDs of Siddharth in due course by Dr.K.P.Naveen.
6. **Dr. Rama Krishna Sai Gorthi** gave a **brief power point presentation** about the faculty members of Electrical Engineering and their specializations.
7. **Prof. Dr. P.K.Ghosh** explained **“Improving Teaching Quality of Siddharth faculty members by Attending the IIT Class Room Lectures”** to **Dr. Rama Krishna Sai Gorthi**. In this discussions concerned HoDs of Siddharth shared the contents required for mentorship to the faculty team of IIT, Tirupati and explained about the topics required. **Dr. Subrahmanyam Gorthi** suggested that atleast **“5 CLASSES PER SEMESTER FOR EACH COURSE”** is required for better outcome and also advised to attend the introductory classes to understand the fundamentals of the course. **Dr. Rama Krishna Sai Gorthi** shared the time table of IIT to the HoDs of Siddharth to plan for class. **“IT WAS RESOLVED THAT THE TENTATIVE DATES OF CLASS WORKS WILL BE SHARED BY THE IIT TEAM IN DUE COURSE”**
8. **Prof. Dr. P.K.Ghosh** explained about **“PG Project Requirement”** to **Dr. Rama Krishna Sai Gorthi**. In this agenda, selection of topic of mutual interest has been discussed. **“IT WAS RESOLVED THAT PG PROJECT WILL BE GUIDED FOR GOOD QUALITY STUDENT AFTER MUTUAL DISCUSSION ABOUT THE AREA OF INTEREST FROM SUBSEQUENT SEMESTER”**


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9. **Prof. Dr. P.K.Ghosh** explained about **"UG Project Requirement"** to **Dr. Rama Krishna Sai Gorthi**. In this agenda, number of projects can be guided, number of students per project, quality of students and selection of topic of mutual interest has been discussed. **"IT WAS RESOLVED THAT MAXIMUM OF 2 U.G. PROJECTS AND 5-6 STUDENTS CAN BE SELECTED FOR MENTORING WITH MUTUAL INTEREST THROUGH DISCUSSIONS WITH CONCERNED FACULTY MEMBERS"**
10. **Dr. Rama Krishna Sai Gorthi** also accepted to give some **"Expert lecture"** on the area of interest in Siddharth premises to improve the students' knowledge depending upon the convenience to the IIT.


Dr. P.G. Gopinath
Co-ordinator


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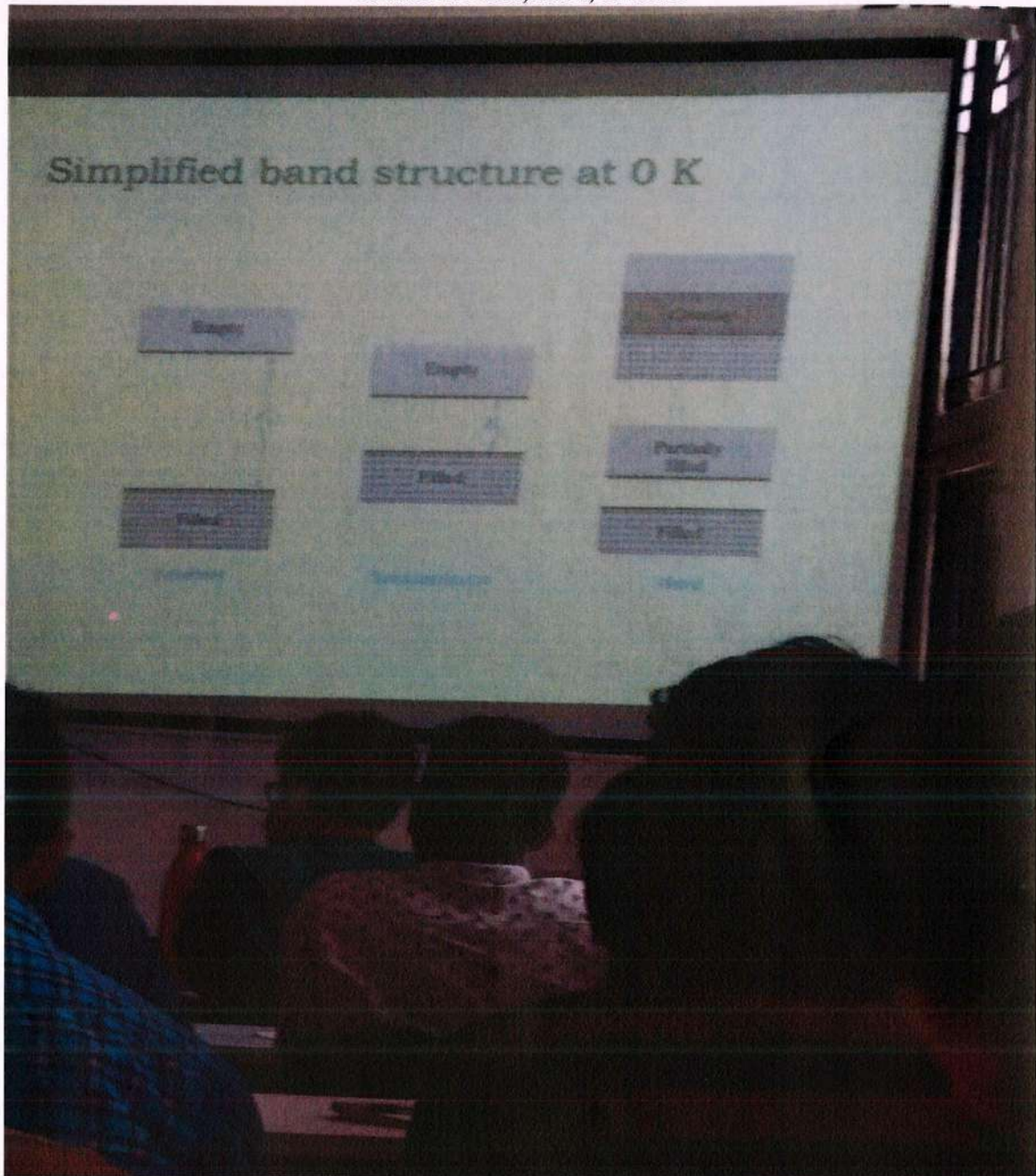
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5. Mentorship program – Proof of Activities conducted from IIT, Tirupati



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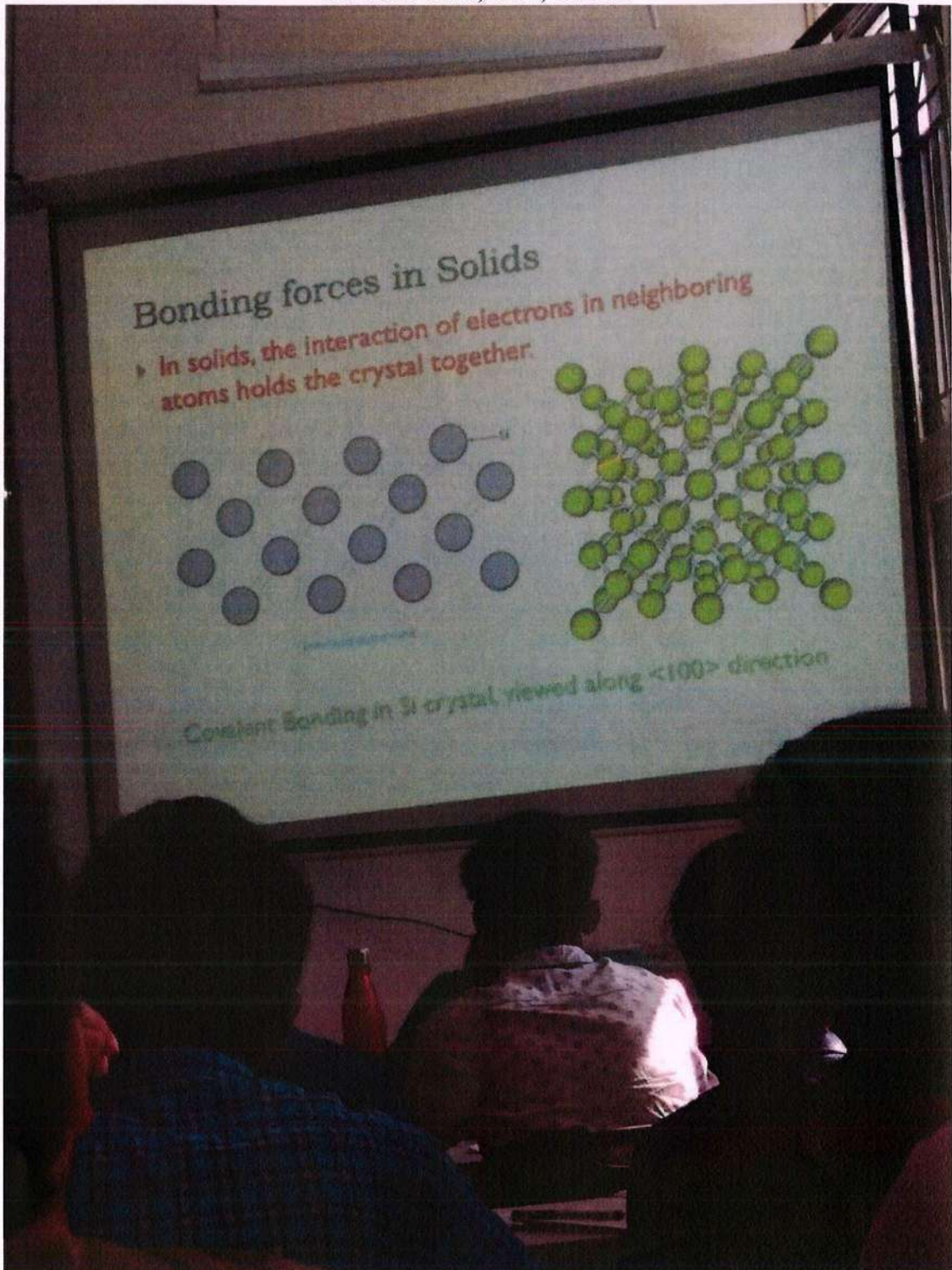


View Of Class Room Teaching at IIT, Tirupati

K. Sreedhar
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View Of Class Room Teaching at IIT, Tirupati

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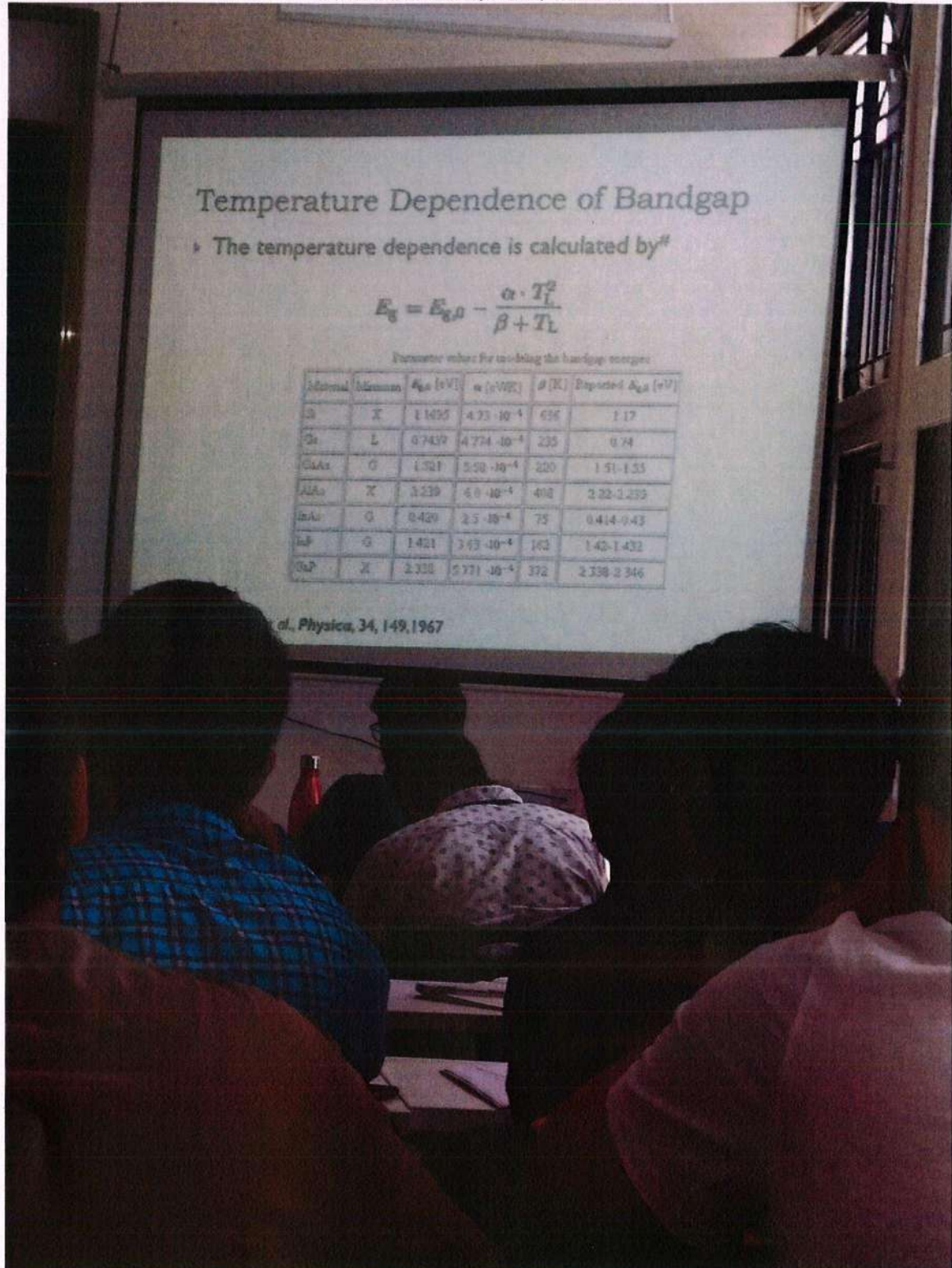
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Temperature Dependence of Bandgap

The temperature dependence is calculated by²⁸

$$E_g = E_{g0} - \frac{\alpha \cdot T^2}{\beta + T}$$

Parameter values for calculating the bandgap energies

Semicond.	Minimum	E_{g0} [eV]	α [eV/K]	β [K]	Expected E_{g0} [eV]
Si	X	1.1495	$4.73 \cdot 10^{-4}$	636	1.17
Ge	L	0.74379	$4.774 \cdot 10^{-4}$	235	0.74
GaN	G	1.921	$5.58 \cdot 10^{-4}$	200	1.51-1.53
AlGa	X	3.239	$6.8 \cdot 10^{-4}$	402	2.32-2.395
InAs	G	0.429	$2.5 \cdot 10^{-4}$	75	0.414-0.43
InP	G	1.421	$3.63 \cdot 10^{-4}$	163	1.42-1.432
GaP	X	2.338	$5.771 \cdot 10^{-4}$	372	2.338-2.346

Physica, 34, 149, 1967

View Of Class Room Teaching at IIT, Tirupati

K. Sreenivas

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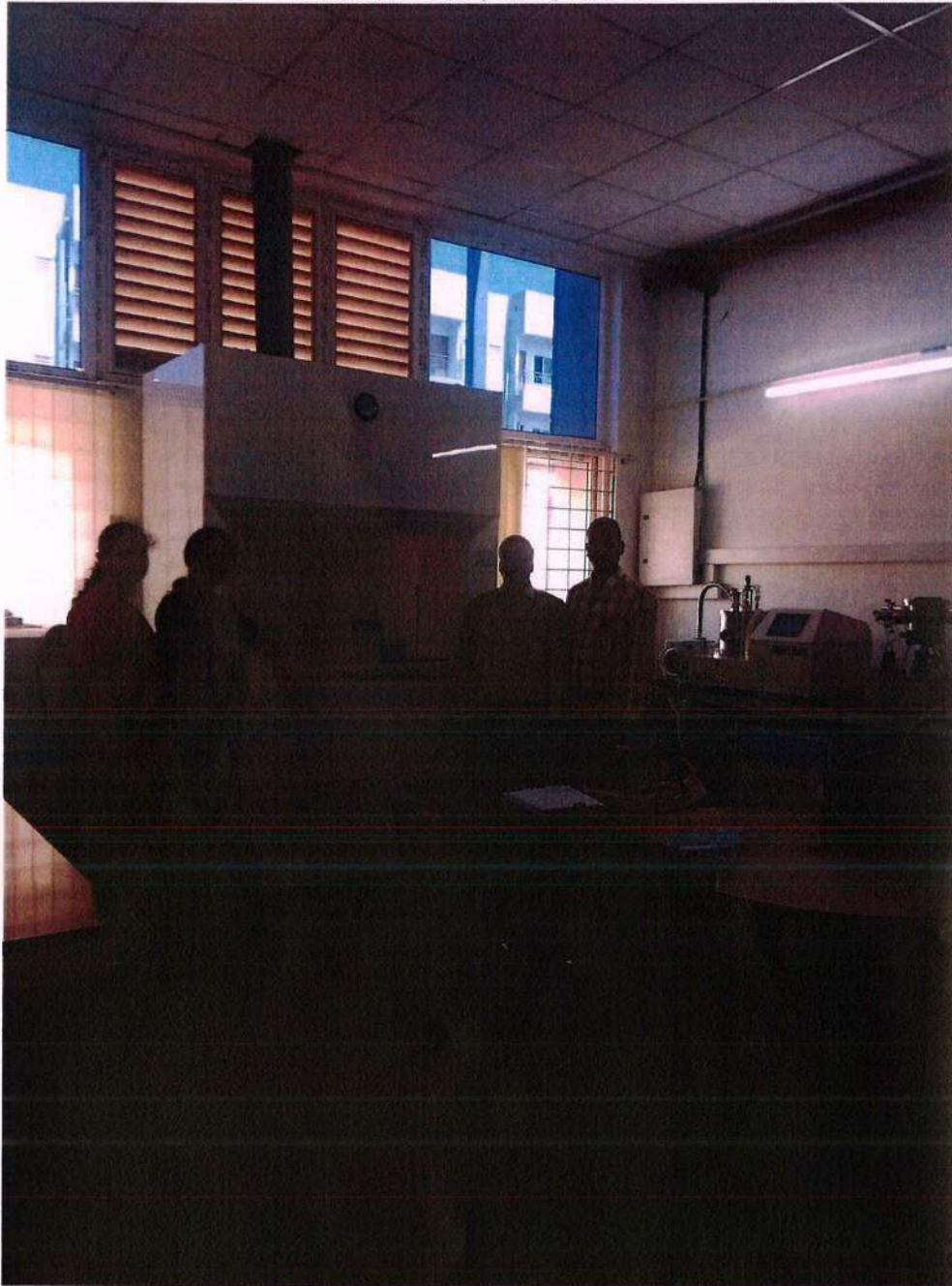
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View Of Laboratory at IIT, Tirupati

ksreddy

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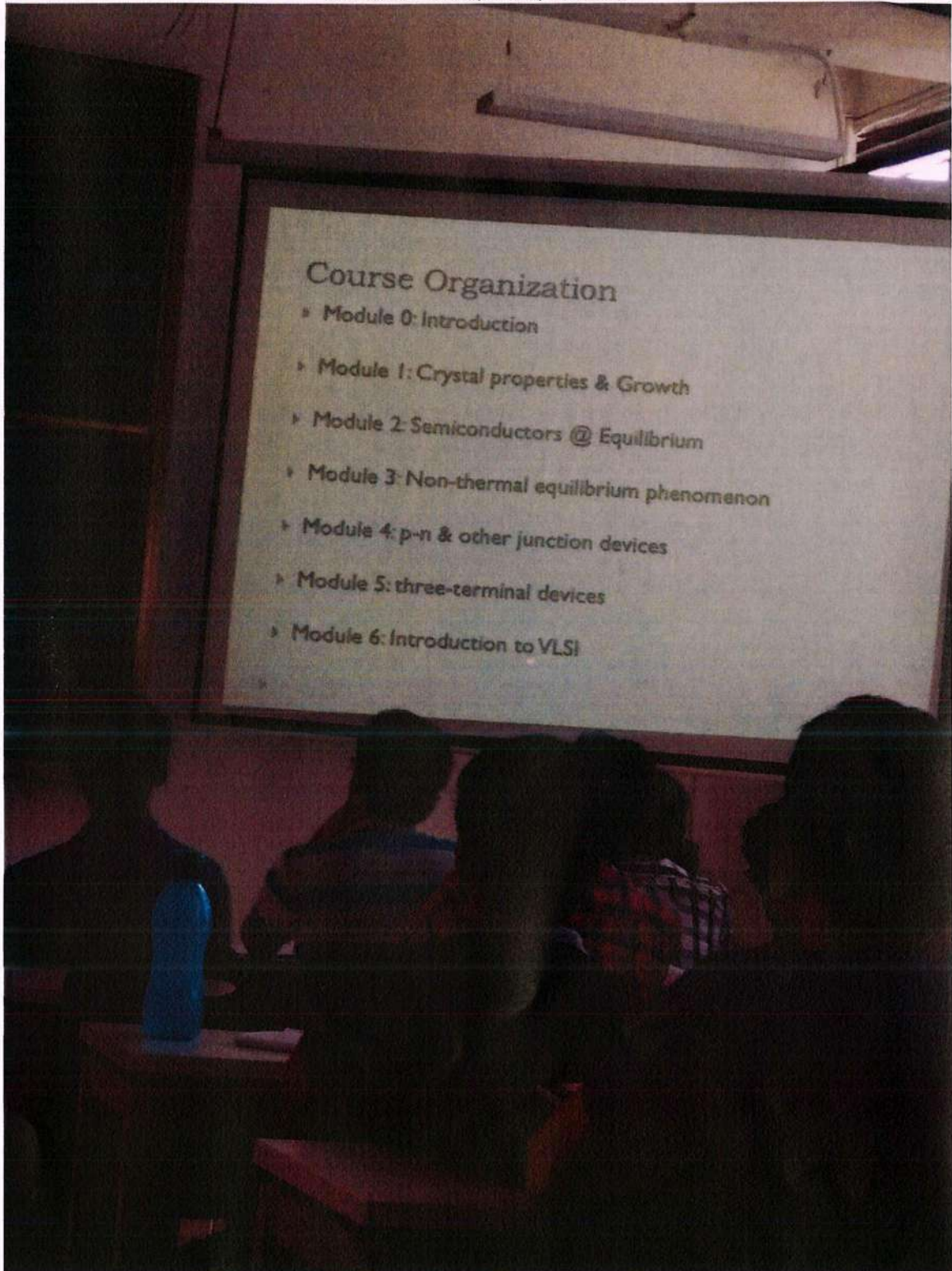
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6. Mentorship program – Report



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Report on Class Room Education & Learning

Department : ELECTRONICS & COMMUNICATION ENGINEERING
Course Code : EE3107 Course Title: Communication systems
Date of Class : 24-08-2020 TO 2-08-2020(WEEK-1)
Name/s of the faculty attended:

S.No.	Name of the faculty member	Department
1	M.PRASANTH	ECE(SIETK)
2	U SRINIVASULU	ECE(SIETK)

Points Observed:

(Based on improving the content, presentation, class room interaction & Assignment/Tutorial)

TOPICS COVERED:

- Introduction to communication systems
- Block diagram of analog communication.
- Block diagram of digital communication.

OBSERVED POINTS:

- In every class first five minutes they recap previous class topic for relevance in subject.
- Given Clear explanation of whatever the topic discussed in the Lecture.
- Mathematical expressions which are used to do the problems are given with highlight.

M. Prasanth
U. Srinivasulu
Faculty Signature

[Signature]

HOD
HEAD

Department Of Electronics & Communication Engg
Siddharth Institute Of Engg. &
Merayanavaram Road, PUTTUR-517588

K. R. Reddy
PRINCIPAL

Siddharth Institute of Engineering & Technology
Siddharth Nagar
PUTTUR - 517583, Chittoor Dist.



**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)**

(Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu)

(Accredited by NBA for Civil, EEE, Mech., ECE & CSE)

(Accredited by NAAC with 'A' Grade)

Puttur -517583, Chittoor District, A.P. (India)

6.5.3 Sr.No 2. Collaborative quality initiatives with other institution(s)

7. Mentorship program – Certification for Course Audit



INDIAN INSTITUTE OF TECHNOLOGY TIRUPATI

भारतीय प्रौद्योगिकी संस्थान तिरुपति

Renigunta Road, Settipalli Post, Chittoor District, Tirupati - 517506

Dr N N Murty
Associate Professor

Phone : +91 877 2503 256
Email: nnmurty@iitp.ac.in

TO WHOMSOEVER IT MAY CONCERN

This letter is certify that **Dr. P.G.Gopinath**, Siddharth Institute of Engineering & Technology, Puttur (A.P.) has attended the below course under "IIT TIRUPATI-MENTORSHIP PROGRAMME" in Indian Institute of Technology (IIT), Tirupati.

Course Details:

Course Code : EE2204

Course Title : Solid State Devices

Department : Electrical Engineering

Academic Year : 2019-20

Duration : Jan 2020 to June 2020

Course Instructor : Dr. N.N. Murty, Associate Professor & Head, Electrical Engineering

(Dr. N.N. Murty)


PRINCIPAL

Siddharth Institute of Engineering & Technology
Siddharth Nagar
PUTTUR - 517583, Chittoor Dist.



Indian Institute of Technology Tirupati
Renigunta Road, Tirupati - 517 506, A.P.

Dr. K. P. Naveen
Assistant Professor

Telephone No.: +91 0877 250 3255
Email: naveenkp@iittp.ac.in

To
Whomsoever it may concern

Subject: Certification for Course Audit - Regarding

This letter is to certify that the following course have been audited by the below listed faculty members of the Siddhartha Institute of Engineering and Technology, Puttur, A.P. under the "IIT TIRUPATI - MENTORSHIP PROGRAM":

Course Code : EE3107
Course Title : COMMUNICATION SYSTEMS
Department : Electrical Engineering
Academic Year : 2020-21
Duration : August 2020 to December 2020
Course Instructor : Dr. K P Naveen, Assistant Professor

Name/s of the faculty attended:

S. NO.	NAME OF THE FACULTY MEMBER	DESIGNATION
1	Mr. U. SRINIVASULU	Assistant Professor
2	Mr. M. PRASHANTH	Assistant Professor

Signature

Dr. K. P. Naveen
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Indian Institute of Technology Tirupati
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