College Code: QA



BRILLIANT INSTITUTE OF ENGINEERING & TECHNOLOGY

(Sponsored by: Brilliant Grammar School Educational Society)
(Approved by AICTE, New Delhi, Affiliated to JNTU-Hyderabad)
Abdullapur (V), Abdullapurmet (M), R.R. Dist – 501505, Telangana, India
Website: www.b-iet.ac.in, e-mail: principal@b-iet.ac.in Contact No.: +919652929786

2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences.

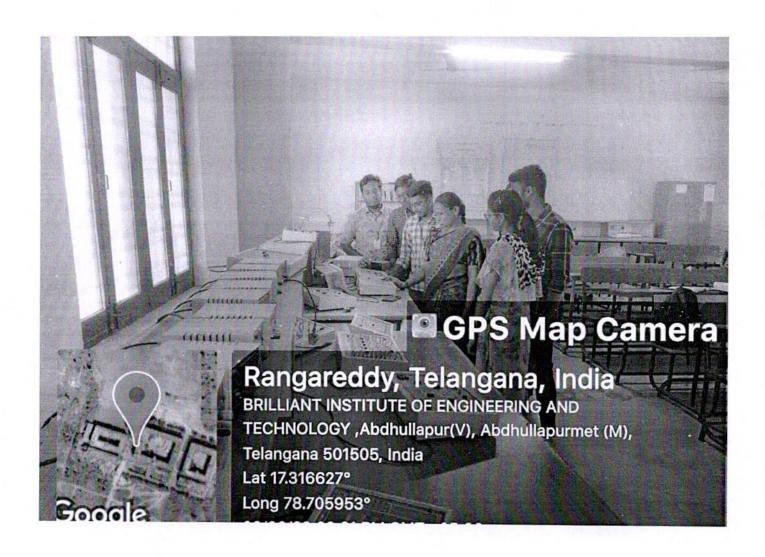
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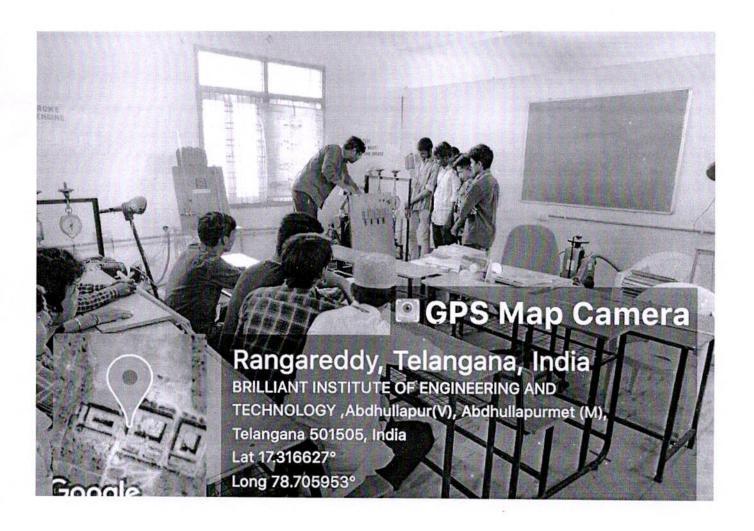
Experiential learning: The institution offers experiential learning for students with the following approaches:

 Laboratory Sessions: Laboratory Sessions are conducted for better understanding of theoretical concepts.



Students of ECE Department, II Year IISem Performing Lab Experiments in "Linear and Digital IC Applicatins" (A.Y. 2023-2024).





Students of Mechanical Department, III Year I Sem Performing Lab Experiments in "Thermal Engineering-II" (A.Y. 2023-2024).

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2. Internships: Internships are provided to the students through MOU's with the industries.



Date:12/12/2023

INTERNSHIP CERTIFICATE

This is to certify that ABBULA POOJA, bearing Hall Ticket Number: 21QA1A0401 B.Tech III year student of Electronics And Communication Engineering from BRILLIANT INSTITUTE OF ENGINEERING & TECHNOLOGY, HYDERABAD, has completed Internship on "RADAR Signal Simulator" at "UNISTRING TECH SOLUTIONS PVT.LTD", Hyderabad under our guidance from 12/10/2023 to 12/12/2023.

During the internship student demonstrated good communication skills and ideas with self motivated to learn new things. Performance of the student exceeded expectations and was able to complete the Internship successfully.

We wish the student all the best for her future endeavors.

MANAGER

Registered office: 8th Floor (Regus Grandeur Business Centre), SLN Terminus, Survey No. 133, Beside Botanical Garden, Gachibowli, Hyderabad, Telangana, INDIA - 500032.

Development Center:
D.No: 2-91/77/2/ST/11,Signature Towers (11th Floor),
Opp. Botanical Garden Rd, Venkat Enclave, Whitefields,
Kondapur, Hyderabad, Telangana, INDIA - 500084.

Ms. Abulla Pooja, Student of ECE Department has completed internship from 12-10-2023 to 12-12-2023 at UTS Pvt.Ltd, (A.Y. 2023-2024)





BlueSilica Technologies Private Limited, Flat No: 203, BMP Srushti, 16-11-20/7/D/1, Saleem Nagar Colony, Malakpet, Hyderabad, India - 500036 CIN: U72200TG2007PTC056574

Date:28/01/2024

INTERNSHIP CERTIFICATE

This is to certify that THALAKOLLULA VIKAS, bearing Hall Ticket Number: 20QA1A0446 B.Tech III year student of Electronics And Communication Engineering from BRILLIANT INSTITUTE OF ENGINEERING & TECHNOLOGY, HYDERABAD, has completed Internship on "Telemetry Signal Simulator" at "BLUE SILICA TECHNOLOGIES PVT.LTD", Hyderabad under our guidance from 09/12/2023 to 28/01/2024.

During the internship student demonstrated good communication skills and ideas with self motivated to learn new things. Performance of the student exceeded expectations and was able to complete the Internship successfully.

We wish the student all the best for his future endeavors.

MANAGER

http://bluesilica.com

Email: support@bluesilica.com

Mr. Thakakollula Vikas, Student of ECE Department has completed internship from 09-12-2023 to 28-01-2024 at UTS Pvt.Ltd, (A.Y. 2023-2024)

Vill &Mdi: Abdullapurmet, R.R.Dist-50150

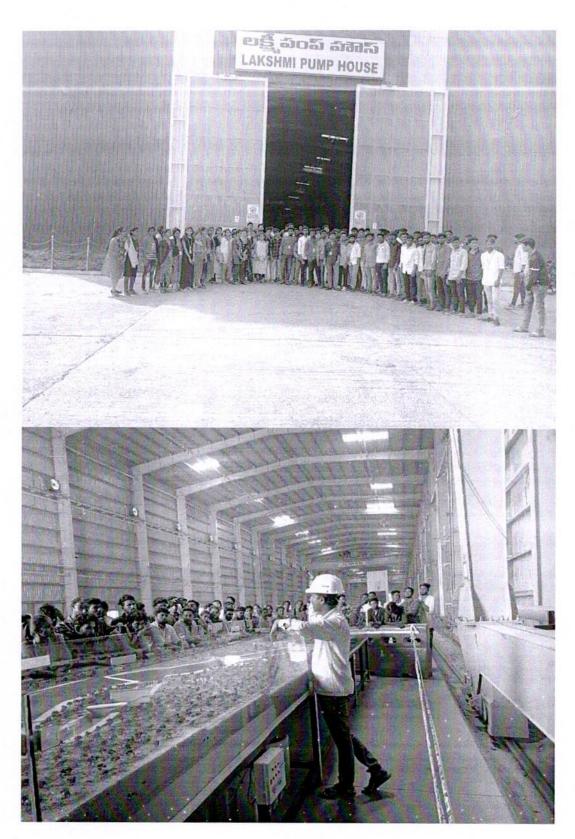
3. Industrial study visits & Field visits: Organized to expose current technologies and to provide an opportunity to learn practically through interaction.





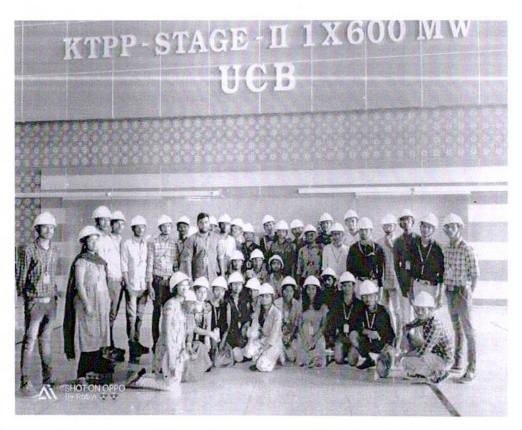
Students of ECE Department, III Year II Semester, Visited National Remote Sensing Centreat Balanagar on 27-12-2023(A.Y 2021-2022).

VIII & Mol: Abdultapurmet, R.R. Dist. 50150

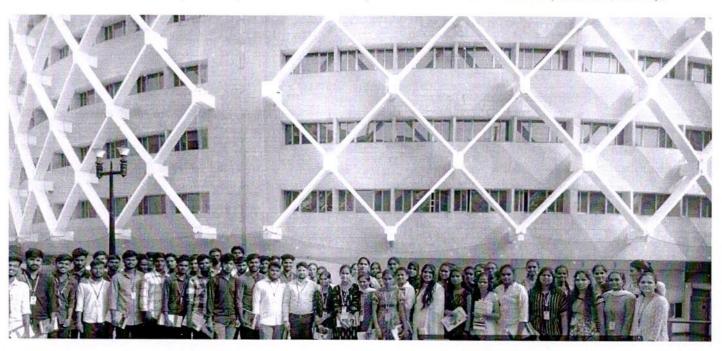


Students of CIVIL Department, II Year II Semester, Visited Kaleswaram Lift Irrigation Scheme Lakshmi
Pump House at Kaleswaram on 27-02-2024(A.Y. 2023-2024) PRINCIPAL OF





Students of EEE Department, III Year I Semester, VisitedKTPP on 9-08-2023(A.Y. 2023-2024).

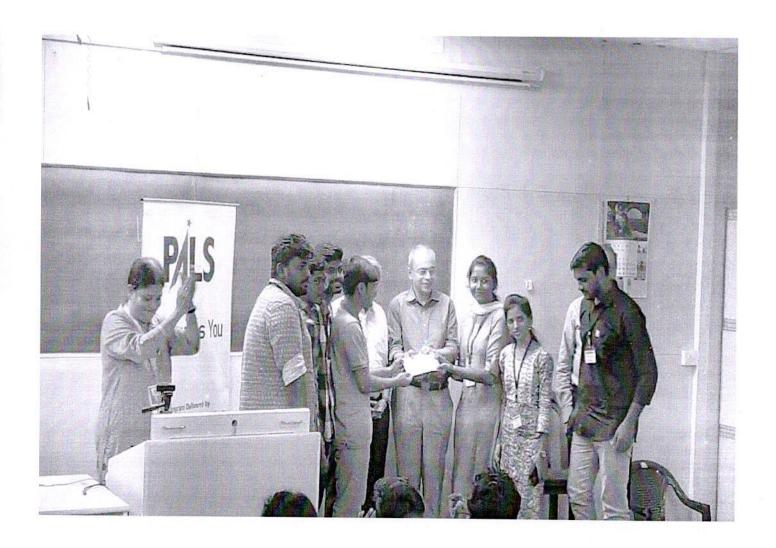


Students of CSE Department, IV Year I Semester, Visited Cyber Towers on 10-08-2023 (A.Y 2023-2024).



4. Sample Copy Of Industry Driven Competition:

Students encouraged to participate in competitions & Hacathon conducted by reputed universities to showcase their creative ideation and talent in different areas.



Students of ECE Department, III Year II Semester, Participated in PALS-2023at IIT Madras, on 13-12-2023 (A.Y 2023-2024).

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Students of ECE Department, IV Year I Semester, Participated in PALS-2024at IIT Hyderabad, on 12-02-2024 (A.Y 2023-2024).

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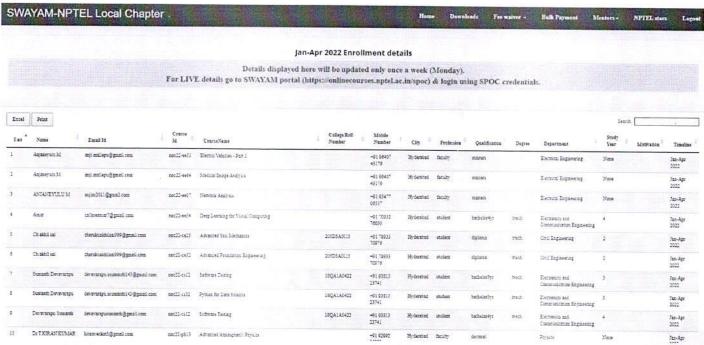


Students of ECE Department, IV Year I Semester, Participated in PALS-2024at IIT Hyderabad, on 12-02-2024 (A.Y 2023-2024).



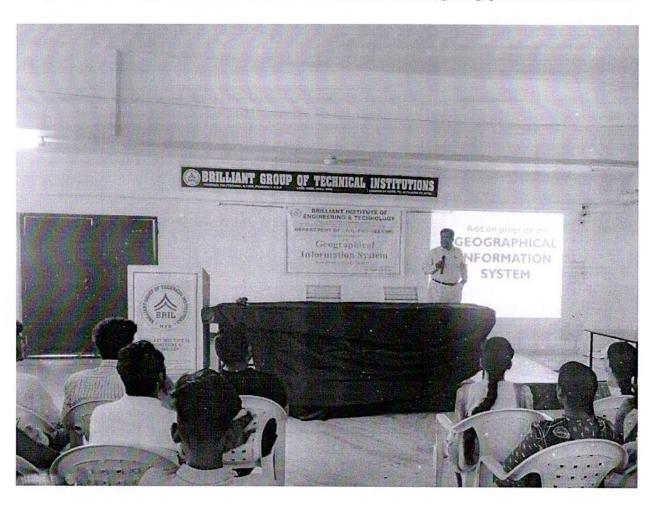
5. Integrated Tools: Students and faculty are encouraged to access global e-journal literature, articles and scientific research papers from J-Gate. Also encouraged to enroll in online courses from NPTEL Swayam organization.

	Brilliant Inst	itute of Engineering And Technology My J-Gate	Logout Help
J-Gate		☐ All ☐ My Library ★ My Favourite	
	Basic Searc	ch Browse A-Z Author Finder Advanced Search Search History	View Marked Resi
Filter Results By	Apply Filters	Browse by Title A-Z Browse by Publisher Browse by Latest updates	
Browse By Publication	Туре	James S, Estate Species	
☑ Journals		Results Showing 1-10 of 38,834 Starting with V	Search
Browse By Category		☐ Set Alert * Add to Favourite Filter by C	ountry of Publication
Peer-Reviewed/Scho	olarly	ALL [0-9] A B C D E F G H I J K L M N O P Q R S T	UVWXYZ
Professional & Indus	try	Sl. No. Title Sort by Ranking V	Count
Only Indian Journals Open Access		1 21st Century Science and Technology Type: Journals	→ us
☐ Hybrid Open Access Browse By Ranking		2 S 2D Materials	- GB
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□ SJR □ H-Index □ NAAS		3 Slotech Type: Journals SJR:0 557; H-Index:37.0; NAAS:8.41	∳ DE
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6. Bridge Course: Bridge courses are conducted for students for filling the gaps in academic courses.

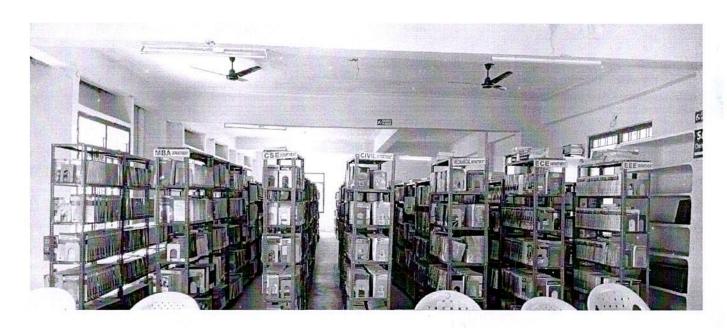


Students of IV Year I Semester participated in ADD-ON Program on **Geographical Information System** from 25/09/2023 to 30/09/2023 delivered by **Dr.ShaikRusthum**, professor of CIVIL Department (A.Y 2023-2024)

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7. E-Learning: The institution allowed to access text books & references, course materials, project reports, magazines, printed journals and e-journals.

Home	About Us*	Programs Offered♥	Facilities	Academics	Exam Branch	Statutory Committees*	Administration	Placements*	R&D -	RTI	IQAC▼	NAAC	Careers	Conta Us
	GENERAL FACILITIES		LIBRARY BOOKS STATISTICS							EEE: +91-994-906-8424 CIVIL: +91-300-849-2559 MECH: +91-970-563-1243 MBA: +91-955-066-1664				
	Library	& Reading R	oom	900 Sq.Mt.	National	Journals	90	_			H&S: +91-			
	Seating	g Capacity		180	Internati	onal Journals	05							
	No.Of	/olumes		21357										
	No.Of	Titles		3688										
	Online	journals		2048			20.00							
	NPTELVideos (course 4500 lectures)		LIBRARY TIMINGS											
	Library	automation		New Genlib	:			39						
	Membe	erships		DELNET /J-	Working	days 08:00	am to 5:30 pm							
				Gate	Weekend	s 10:00	am to 05:00 pm							
	Digital	Library Syste	ems	30	Vacation	days 09:00	am to 01:00 pm							
	Social	Welfare Book	s	4117										



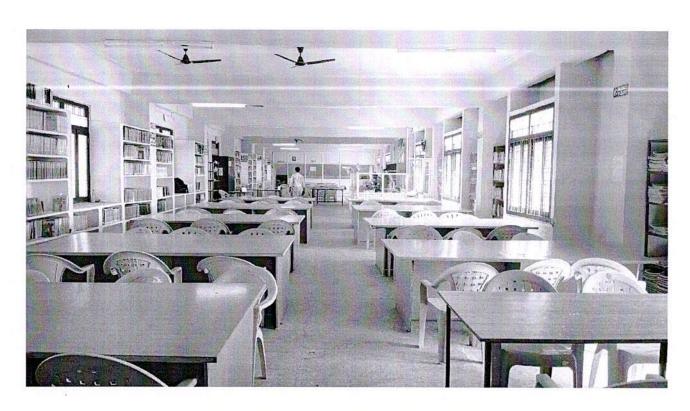
BOOKS STOCK AREA

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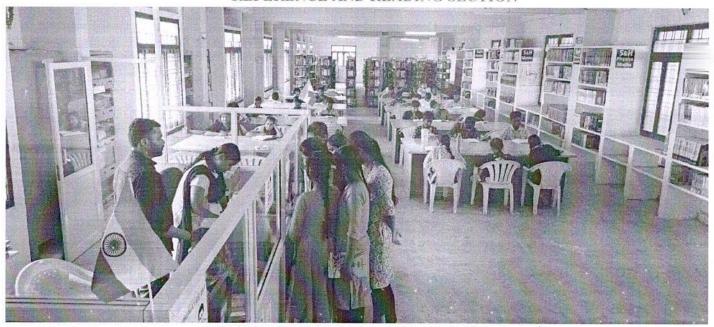


JOURNALS SECTION

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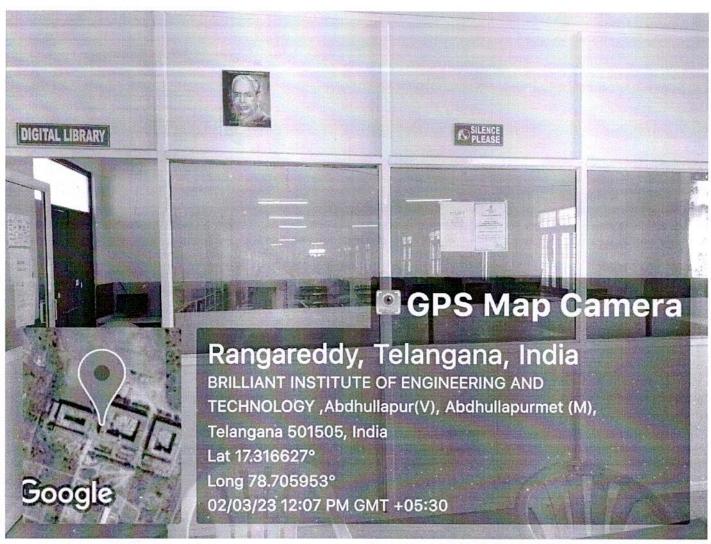


REFERENCE AND READING SECTION



STUDENT REGISTRATION SECTION

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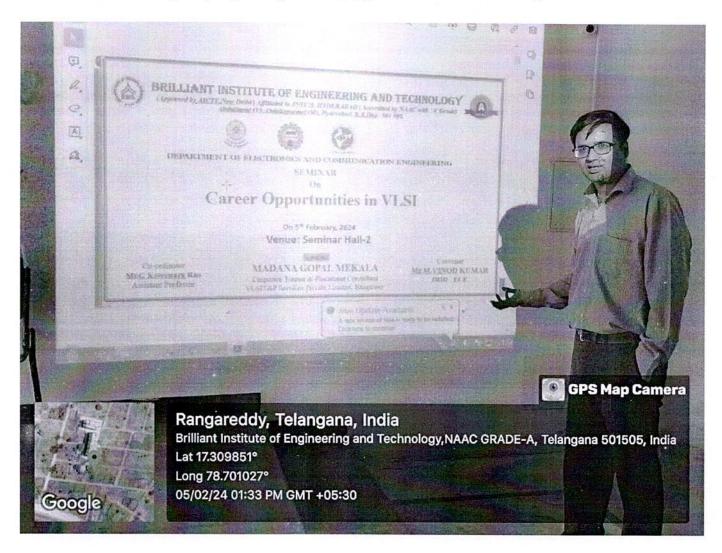


DIGITAL LIBRARY

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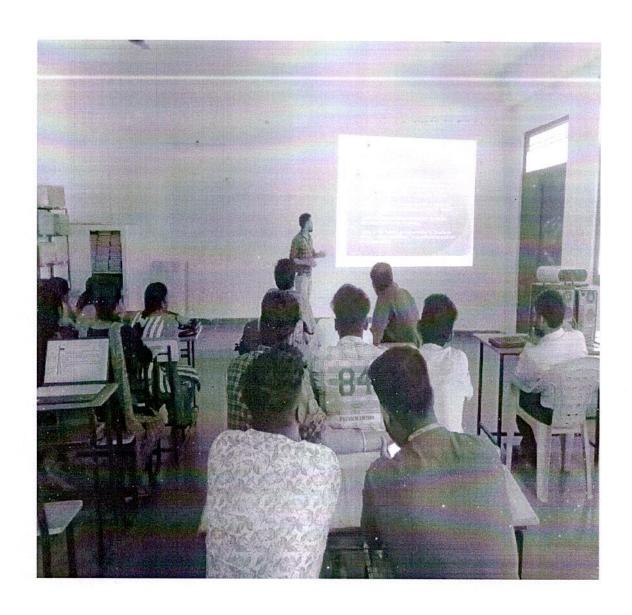
Participative learning: The Institution focuses on students in active involvement independently and interdependently through collaborative learning methods.

8. Workshops, Guest Lectures and Seminars: Students are encouraged to train on latest trends and innovative technologies by organizing workshops, guest lectures and seminars,



Students of ECE III year II semester, participated in 1-Day Seminar on "Career Oppertunities in VLSI" from 05/02/202024 (A.Y 2023-2024)

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Students of EEE II Year II Semester, participated in Guest Lecture on "Power Systems" from 6/11/2023 to 7/11/2023 (A.Y 2023-2024)

BRILLIANT INSTITUTE OF ENGINEERING AND TECHNOLOGY VIII &Mdl: Abdullapurmet, R.R.Dist-501505. 9. Group Discussions & Debates: Encouraging students to participate in debates and discussions.

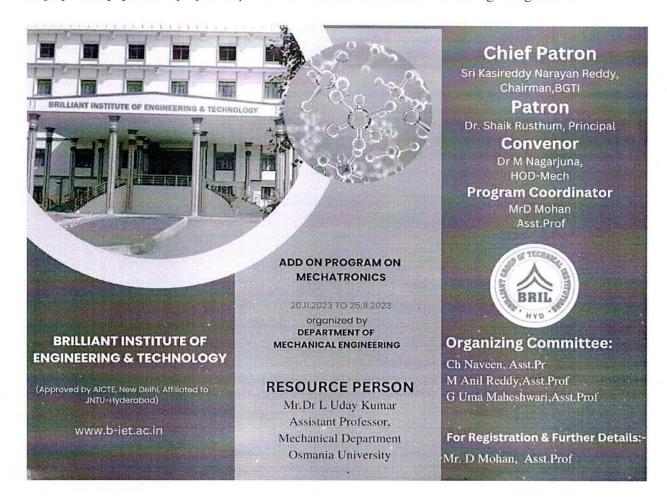


Students of B.Tech III year I semester, participated in Group Discussion (AX 2023-2024)

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10. Technical Presentation:

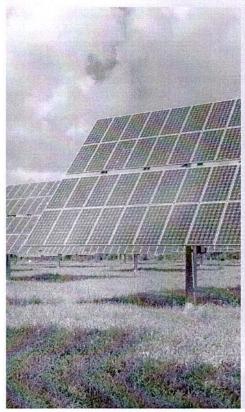
The students are encouraged to participate in technical events to show case their presentation skills through poster, paper, and project expo and to contribute articles to the college magazines.



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About The Program

Solar power is the conversion of energy from sunlight into electricity, either directly using photovoltaics (PV) or indirectly using concentrated solar power. Photovoltaic cells convert light into an electric current using the photovoltaic effect.



About The collage

Brilliant Institute of Engineering & Technology-(BRIL) was established in the year 2008. It is located in a vast expanse of 70 acres of land on the outskirts of Hyderabad city at a distance of about 20Kms from the city centre. BRIL has a long tradition of producing technically competent engineers. And has renowned alumni occupying prominent positions in industry, academia, and research across the world BRIL has excellent T&P cells facilitating students to explore new career avenues while developing the right attitude

About The Department

Technically, Mechanical Engineering is the application of the principles and problem-solving techniques of engineering from design to manufacturing to the marketplace for any object. Mechanical engineers analyze their work using the principles of motion, energy, and force—ensuring that designs function safely, efficiently, and reliably, all at a competitive cost

Objectives:

Solar energy can be used for many of the everyday needs, including electrical power, heating and cooling, water heating, industrial process heat, cooking, transportation, fuel production and even environmental clean-up.

REGISTRATION FORM



ADD ON PROGRAM ON TOOL DESIGN

10.06.2024 TO 15.06.2024

Name:	
Designation:	
Department:	
Address:	
Mobile,No:	
Email:	
Signature:	
Date:	

Description of College and Program (A.Y 2023-2024)

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11. Alumni Interaction: Alumni meets are organized every year to build the strong relationship between students and alumni to share their experience and knowledge towards career building.

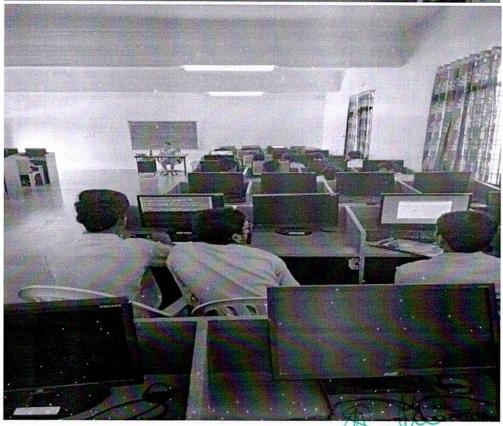


Senior Faculty Addressing the Alumni about the changes that are made according to the previous meeting

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12. Think pair-share: Implemented in computer lab to help students to go through latest innovations and come out with individual ideas, discussions and share with other groups.



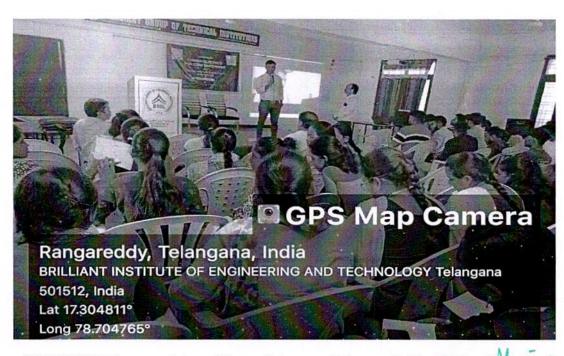


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13. Technical Club Activities: The institution has various professional societies like IETE, ISO, ICT, TASK where the students actively participate in activities.



Students of B.Tech I Year, participated in 2-Day Workshop on "Goal Setting and Career Building" in collaboration with TASK Society (A.Y 2023-2024)



Students of ECE III,IV Year, participated in workshop on "Career Guidance for Core Engineers" in collaboration with IETE Society. (A.Y 2023-2024)

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14. Hands-on training programs: In every year, the students will undergo the training activities to explore in industry and advanced technologies



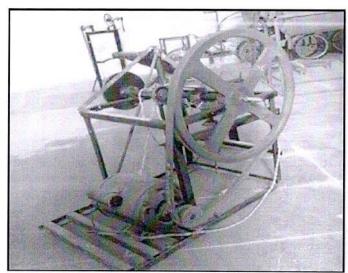
Students of ECE IV Year II Semester, Exhibiting Robot Applications such as Pick and Place Robot and Line Follower Robot in "EXPLORATION 2K23" (A.Y 2023-2024)

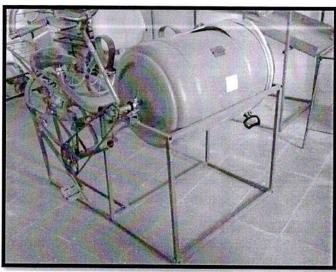


Students of CIVIL III Year II Semester, Designed model of Cable Bridgeto present in "EXPLORATION 2K23" (A.Y 2023-2024)

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15. Innovative Model Development:





Students of Mechanical IV Year I Semester, Developed Project on Powered Hacksaw and Pedal Operated Washing Machine (A.Y 2023-2024)



Students of ECE IV Year II Semester, Developed Prototype named "Land Survey Brone" (A.Y 23-24)

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16. Assignment & Quizzes: Used to analyse the performance and understanding capability of each student at the end of the concept.

fignals And Systems. 218A1A0414 Assignment-1. Hamakshipandit (1) a Define a signal, give the classification of signal Ans: Signal - Signal is a Quantity which has some useful information. Ez: mobile signals, TV signals etc. classification of signals: fundamentally the signals are classified into two Catagories they are -Analog signals (continuous time signal). digital signals (Discrete Time signal). 1) Analog signals: In Analog signals, the information is available at each and energy point of time a) Digital signals: In Digital signals, the informa -tion is available at specific time intervals. Eg: Digital signal eq: Analog signal Parameter of signal are three they are Time, Amplitude and phase. Again both cT and DT signals are sub divided as Periodie and Aperiodie signals. even and odd signals. Delerministic and non Deterministic signals. Energy and power signals. causal and noncausal signal

1> Periodie and Aperiodic (non periodic) signals: A signal which supeats with constant time portion is known as periodic signals A signal which do not expects with constant time Period is mon periodic signals x(t) exponentially in creating. deerealing a) Even and odd signals: for a signal inf time axis in invested (t=-t) and magnitude and its magnitude doesn't changes its sign, then it is even signal. Ex: cos signal. for a signal if time axis is invested (t=-t) and it magnitude changes (or) inverted then it is called as odd signals. En: Sine signals. 3) Deterministie and non Deterministie signals. A signal which is supresented in a mathematical equation—then it is called as Deterministic signal. Ex: a(t)= sin(t), a(t)=cos(t), a(t)=et, a(t)=et. A signal which doesn't stepstesented by a mathematical equation is called non Deloministic equation. Ex! Are coming from the welding. man made noice.

- 4) Envigy and power signal.

 A signal is said to be an Invigy signal if and only if its total envigy (+) is finite that is (i.e. 02 \in 20) for envigy signal average power(p=0) en: All non poviodie signals are called as Invigy signals. A signal is said to be a power signal if its average power (P) is finite (i.e., 02 PZ &) for a power signal total envigy. (+) is infinite.

 Ex: All periodic signals one called as power signals.
- food a signal if the variables are same as output then it is called as causal signals.

 En: x(t) = cost + sint, x(t) = sint, x(t) = cost.

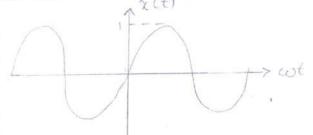
 for a signal if the variables are of output depends on present input and past output and future value en: x(t) = cos(t) + cos(t-25) + sin(t+10).
- (b) calculate the periodicity of the signal. $\pi(n) = \frac{\cos 2\pi n}{5} + \frac{\cos 2\pi n}{7}$
- Sol! $\cos \cos 1 = \cos 2\pi f \cdot -(1)$ $\therefore \cos 3\pi f \cdot -(1)$ \therefore

:. N1=5 and N2=7 :. Hence the given signal is periodice of

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2(a) Sketch the even and odd past of the sincot and coscot.

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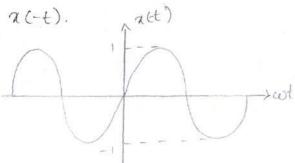


we know that;

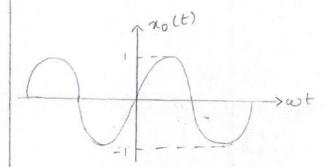
$$\chi_{e(t)} = \frac{1}{2} \left[\chi(t) + \chi(-t) \right]$$

$$\alpha_0(t) = \frac{1}{2} [\alpha(t) - \alpha(-t)]$$

a(-t).



 $\alpha_e(t) = \frac{1}{2} \left[\alpha(t) + \alpha(-t) \right] = 0.$



 $a_0(t) = \frac{1}{2} \left(x(t) - x(-t) \right)$ with the magnitude 1.

The Above signal is sinut.

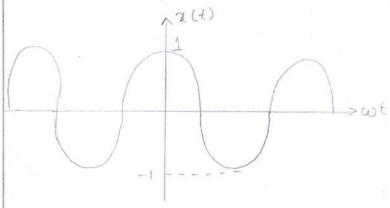
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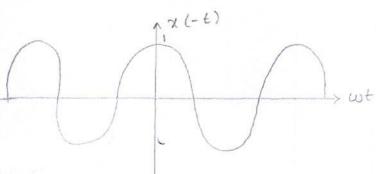
Mdl: Abdullapurmet, R.R.Di-

(b) coswt

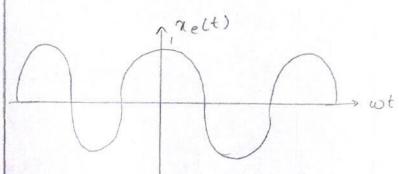
2(t) = Real signal



x(-t) = Inverted signal.



 $\gamma_0(t) = \frac{1}{2} \left[\chi(t) - \chi(-t) \right] = 0. \text{ (not exist)}$ $\chi_e(t) = \frac{1}{2} \left[\chi(t) + \chi(-t) \right]$



The above signal is a coswit with magnitude 1.

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Soll (i) The given signal is energy signal.

$$\mathcal{L} = \mathcal{L}^{\infty} |\chi(\eta)|^{2}$$

$$= \mathcal{L}^{N} |(\frac{1}{2})^{n}|^{2}$$

$$= \mathcal{L}^{N} |(\frac{1}{2})^{n}|^{2}$$

· u(m) is given, so the limits are o to N.

$$\epsilon = \frac{1}{1 - \frac{1}{4}}$$

$$= \frac{1}{4 - \frac{1}{4}}$$

$$= \frac{1}{3}$$

(ii) the Given signal is Energy signal.

$$\begin{aligned}
& \xi = \int_{-\infty}^{\infty} |\chi(t)|^2 dt \\
& = \int_{-\infty$$

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(iii) The given signal is periodic and has infinite time intervals thence directly calculate power. P= lim 1 10 |x(t)|2 dt lim 1 5 To 12 | 2(t) 12dt (im 1 1 To12 1 cos²(wot) | dt Cim 1 5 To12 Cost (wot) dt : cos40 = 1 [3+4 cos 20 + cos40] p= lim 1 50/2 [3+4cos(2wot)+cos4(wot) dt] = lim 1 [1 70/2 To 2 (wot) dt + 1 cosqworld = lim 1 [3[+] To/2] · after integration sin 2(wot) will get as we know sin 2 wot = 0. = lim 1 [3 [To/2+ To/2]] = lim - [3 (T6)] => P = 3 w;

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Assignment submitted by II Year I semester BRIL StAND IN 12025-2024)

33 ENGINEERING AND TECHNOLOGY
VIII & Madi: Abdullapurmet, R.R.Dist-501505.

College Code: QA

BRILLIANT INSTITUTE OF ENGINEERING & TECHNOLOGY



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(Approved by AICTE, New Delhi, Affiliated to JNTU-Hyderabad)
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



Quiz questions o	n VLSI Design
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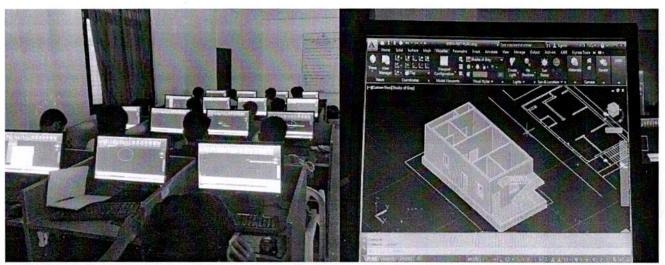
Name: Sumanth	Hall Ticket No: 180 A	0422
Answer all the following question. All qu	restions carry equal marks time 20:Min. Marks	s:10
1. In the p-well process of CMOS fabrication _	substrate is used	
a) P-type b) N-type c) C-type	d) none	1
Main drawback of BICMOS technology a) Low speed b Higher power dissipation	c) High cost d) High speed	1 4
3. Steps involved in manufacturing of IC		121
a) Oxidation	b) Photolithography	/-
c) Ion implantation	d) all	
4. is ideally suited for applications using batter a) MOS b) P-MOS c) N-MOS	y power or battery backup power d) CMOS	1 A1
a) 1003 b) F-1003 c) 10-10103	d) CMOS	
5. Identify different CMOS technologies		101
a) N-well process	b) P-well process	. + /
c) Twin-tub process	d) all	
6. VLSI means Latch up problems occurs in CM	IOS circuits due to	IRY:
a) Parasitic capacitance	b) Parasitic bipolar transistors	7
c) Parasitic resistance	d) none	. /
7. Switching behavior of MOS Transistor is char	racterized by	TAI
a) Threshold voltage	b) Doping	
c) Drain voltage	d) Substrate	
8. The has a physical channel between	the drain and source	[1)
a) D-MOSFET	b) E-MOSFET	1
c) V-MOSFET	d) None	
9. Material used for metallization is		A
a) Silver b) gold c) Iron	d) a and b	1
10. Impurity used in diffusion		17
a) B ₂ O ₃ b) O ₃ O ₃ c) B ₂ B ₂	d) B ₂ O ₃ O ₃	

Objective type quiz answer script for VLSI Design Subject for III Year II Semester Students

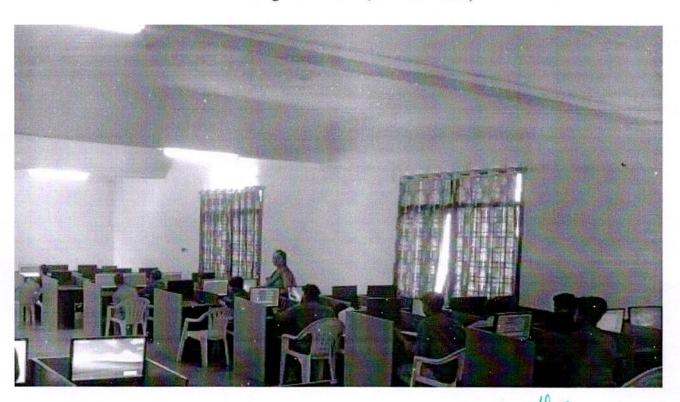
(A.Y. 2021-2022)

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17. Virtual Labs: Used to provide remote-access to Labs in various disciplines can avail the various tools for learning, including additional web-resources, video-lectures, animated demonstrations and self-evaluation.



Students of CIVIL III Year II Semester are Designing Building planusing "Computer Aided Design" using Virtual Labs.(A.Y 2023-2024)



Students of CSE II Year I Semester are implementing "Data Structures" programs using Virtual Labs.(A.Y 2023-2024)

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