



DAV INSTITUTE OF ENGINEERING & TECHNOLOGY

(A Unit of Dayanand Anglo Vedic College Trust & Management Society)

Kabir Nagar, Jalandhar, Punjab - 144 008

Accredited by NAAC with "A" Grade & Recognized by UGC under Section 2(f)

Approved by AICTE; Affiliated to IKG-PTU, Jalandhar | Managed by DAV College Managing Committee, New Delhi

Criteria - II	Teaching-Learning and Evaluation	350
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CRITERION-II (TEACHING-LEARNING AND EVALUATION)

2.3 TEACHING – LEARNING PROCESS (40)

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

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TEACHING-LEARNING ACTIVITY

Name of Activity	Think-draw-Share
Date	19-05-2022
Class	B.Com 2nd Semester
Academic Year	2021-22
Course name	ENVIRONMENTAL STUDIES (EVS 102-18)
Faculty Coordinator	Dr. Bhupinder Singh

Context: This is a group activity. The aim of this activity is to make the students think over the given current environmental issue in groups, get involved with the other groups of their classmates for discussion about the given environmental issue, its impact on life on this planet and feasible solutions. In this way they engage more with each other, learn more and accomplish more with active learning.

Activity Description

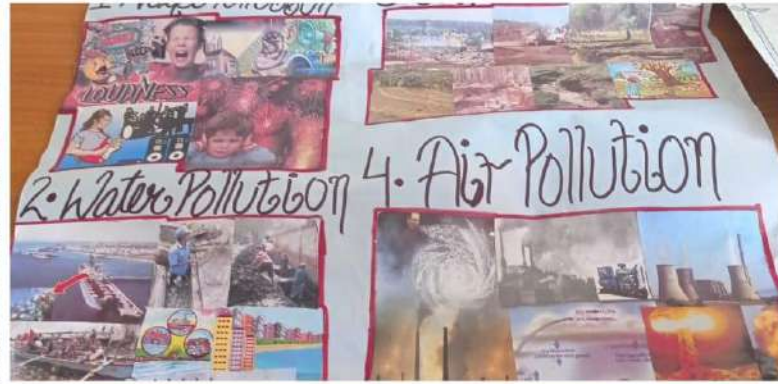
- ❖ Firstly, a **lecture** on the topic of **water and air pollution** was delivered by the faculty mentor followed by discussion on various aspects of the issues.
- ❖ Students were given home assignment to prepare posters elaborating environmental issues and sustainable development.
- ❖ Pairs of students were formed as per their choice and comfort zone to get better outcome.
- ❖ Open-ended questions were posed and asked the students to come up with their best answers through discussion with each other.
- ❖ Got two pairs together, allowed 10 minutes time to discuss.
- ❖ Then invited them on the front to discuss their thought process with the whole class openly.
- ❖ The other students were prompted to get involved in the discussion.
- ❖ Likewise other pairs were appraised.

Course Outcomes covered:

1. Students will enable to understand environmental problems at local and national level through literature and general awareness.
2. The students will gain practical knowledge by visiting wildlife areas, environmental institutes and various personalities who have done practical work on various environmental Issues.
3. The students will apply interdisciplinary approach to understand key environmental issues and critically analyze them to explore the possibilities to mitigate these problems.
4. Reflect critically about their roles and identities as citizens, consumers and environmental actors in a complex, interconnected world

Photos of activity







Critics

Following are the observations of this activity:

- Students considered this activity as a richer learning experience.
- They actively discussed and presented the given topics on environmental issues of everyone's concern.
- Students experienced the importance of **peer learning, team work and soft skills.**
- They learnt about **their social obligations.**

Name of Activity	Mind Map: Problem Solving (Hypothesis Testing)	
Class	B. Tech. (CSE-I(B)) Semester: 2	
Academic Year	2021-22	
Course name	Probability & Statistics: BTAM204-18	
Semester	2nd	Date: 11 May, 2022
Faculty Coordinator	Ashwani Kumar (Department of Applied Sciences)	

Context: Planned activity is the group activity. Basically student involvement, thinking on problem statement, group discussion among the team and identification of solution is done.

Four groups of 6-6 students formed as per the choice of students and comfort zone to get better outcome. Each group has assigned a group leader (on the bases of performance in the previous assessments) and given a **problem to solve**. The problem statements will be different for each group so that the group members concentrate on their own problem. Leader first explain the topic to the group to which the problem is concerned and the method to solve the problem (if required) so that every member become a master to solve the problem. Then leader of the group will discuss the given problem with the group members and decide and distribute the tasks among the group members for timely submission of task. This will help students to **work in a team** and the leader member to enhance his/her **leadership qualities**. During their task of problem solving students are kept free to ask any doubt or query with the teacher. After all satisfactory discussion, students sit together (group wise) and prepare a solution for the given problem statement. Once the flowchart of the methodology and problem solution is ready, students have to draw the complete details on a chart paper and present in front of the complete class. It is kept mandatory for every member of the group to present a part of the problem solution which will **enhance the communication skill** of every individual student and will **remove the stage fear** of the students. The instructor and other students are expected to ask the cross questions and get involve in each other's work.

Activity Description

- Step1- A lecture on the topic was earlier delivered
- Step 2- Selection of team members as per choice and comfort level and assigning a leader.
- Step 2- Assigning problem to solve to each group
- Step 4- Discussion on topic related to problem within group by the leader
- Step 4- Discussion on solution to the problem and explain methodology of it within group.
- Step 3- Distribution of tasks by leader in coordination of team members
- Step 5- Finalization of most suitable solution
- Step 6- Drawing the complete flow chart, solution and key points on chart
- Step 7- Presentation of the solution to problem given and chart in front of the class
- Step 8- Discussion and answering the questions by friends and teacher.

Practice (Problem Statement, Rubrics)

1. This activity will be in class activity. **This will be graded activity.** Students groups will be formed with 6 students per group. Problem statement is given well in advance to students so that they can get prepared well and come with the required solution. 20 minutes will be given for understanding topic and discussion among the members after giving problem before presentation.
2. After 20 minutes instructor will announce the time and take review on student's performance. Students will be instructed to present the work in front of complete class.
3. Faculty will coordinate and will help students in clarifying the understanding of the problem statement and the topic anytime.
4. Faculty then will invite each group to present their poster and explain the flowchart and problem solving methodology. Likewise every group will be evaluated.
5. Faculty will give feedback (reflections on performances) on every group's performance.
6. All groups will be asked to submit a chart on the activity including flowchart, problem solution and the key points.
7. Forum will kept open for suggestions and discussions.
8. Questions sample:

Sr. No.	Problem Statements	COs	RBT Level
1	In a hospital 475 female and 525 male babies were born in a week. Do these figures confirm the hypothesis that male babies born more as compared to female babies?	CO3	L6
2	In a city a sample of 1000 people were taken and out of them 540 are vegetarian and the rest are non-vegetarian. Can we say that the both habits of eating (vegetarian or non-vegetarian) are equally popular in the city at (i) 1% level of significance (ii) 5% level of significance?	CO3	L6
3	325 men out of 600 men chosen from a big city were found to be smokers. Does this information support the conclusion that the majority of men in the city are smokers?	CO3	L6
4	Random sample of 400 men and 600 women were asked whether they would like to have a school near their residence. 200 men and 325 women were in favour of proposal. Test the hypothesis that the proportion of men and women in favour of the proposal are same at 5% level of significance.	CO3	L6
5	In a town A, there were 956 births of which 52.5% were males while in towns A and B combined, this proportion in total of 1406 births was 0.496. Is there any significant difference in the proportion of male births in the two towns?	CO3	L6
6	A sample of 1000 students from a university was taken and their average weight was found to be 112 pounds with a S.D. of 20 pounds. Could the mean weight of students in the population be 120 pounds?	CO3	L6
7	A random sample of 200 measurements from a large population gave a mean value of 50 and a S.D. of 9. Determine 95% confidence interval for the mean of population.	CO3	L6

Criteria	Ratings				Pts.
	10	08	06	04	
Flowchart making & problem solution	Correct Solution with proper explanation and correct answers to all logical asked questions during presentation	Correct Solution with good explanation failed to answer two OR more than two basic questions asked during explanation	Partially correct solution to the problem with limited explanation	Wrong solution with no/partial explanation	10
Chart making and presentation	5	4	3	1	05
	Poster prepared with correct Flowchart & neat & complete explanation	Poster prepared with correct flowchart & incomplete explanation	Poster prepared with Partially correct design and explanation	Poster prepared with in correct design and explanation	
Total					15

Evidence of Success / Outcome / Post reflection:

This activity basically help the students in developing the various essential qualities among them like, team work, group discussion, involvement, thinking and learning critical topics, presentation skills, communication skills and leadership qualities and removal of stage fear of the students. Students are motivated to work well and produce good results. Also it is always desired that all the team members are involved and participated equally. Definitely student's involvement was always good and satisfactory performance is observed during the presentations.

PHOTOS OF THE ACTIVITY:



Students having a discussion in group



Mind map-chart preparation by students



Groups presented on stage one by one

D.A.V Institute of Engg. & Technology
B.Tech Electrical Engineering- 4th Semester

Batch: 2020-2024

Name of Activity: ZIGSAW

Date: 10.05.22

Context: Jigsaw helps students learn cooperation as group members share responsibility for each other's learning by using critical thinking and social skills to complete an assignment. Subsequently, this strategy helps to improve listening, communication, and problem-solving skills.

Step 1: Divide students into groups of 4 people per group. ...

Step 2: Divide your content into 4 chunks. ...

Step 3: Assign one chunk of content to each person in the Jigsaw Group. ...

Step 4: Have students meet in Expert Groups. ...

Step 5: Students return to Jigsaw Groups. ...

Step 6: Assess all students on all the content.

Phase 1: Students meet in home groups

1	2
3	4

1	2
3	4

1	2
3	4

1	2
3	4

Phase 2: Students meet in expert groups

1	1
1	1

2	2
2	2

3	3
3	3

4	4
4	4

Phase 3: Students return to home groups to teach ...

1	2
3	4

1	2
3	4

1	2
3	4

1	2
3	4

Practice (Problem Statement , Rubrics)

Home Group

For the first part of the activity, students require to group into their HOME group. Each HOME group consists of four students which has been assigned different topics of Minimization Technique. The classification of subtopics are as follows:

1. Boolean Algebra
2. De-Morgan's Theorem
3. 4-Variables K-Map
4. 5-Variables K-MAP

	Student 1, Expert on	Student 2, Expert on	Student 3, Expert on	Student 4, Expert on
Minimizations Techniques	Boolean Algebra	De- Morgan's Theorem	4-Variables K-Map	5-Variables K- MAP



EXPERT GROUP

In the next phase, students need to go to the EXPERT group (Group with the same topic) where they are sharing their own opinions and explanations regarding the assigned topics. After they achieved a good understanding regarding the topics, they will proceed to sketch the notes interactively to enable their HOME group to understand their given topics.





JIGSAW ROTATION

In the last part of the activity, students need to return to their respective HOME group. After that, each students will explain the given subtopics to their fellow HOME group members based on the designed notes in the previous procedure. Their fellow group members can ask any questions and they can make a short discussion regarding the explained topics.

Q. No.	Question Description	Marks	CO Mapped	Bloom Taxonomy
1	<p>Prove that if $A+B = A+C$ and $A'+B=A'+C$, Then $B=C$</p> <p>Draw Circuit Diagram</p>	5	2	6
2	<p>By using De-Morgan's theorem implement the following equation and also implement the circuit using AOI</p> <p>$[(ABC+AB')' + BC]'$</p>	5	2	6
3	<p>Minimize the following expression using K-Map and implement the circuit using NAND gates only</p> <p>$Y = \sum m(2,3,4,5,13,15) + \sum d(8,9,10,11)$</p>	5	2	6
4	<p>Minimize the following using K-map:</p> <p>$Y(A,B,C,D,E) = \sum m(0,5,7,10,11,14,15,16,21,26,27,30,31)$</p>	5	2	6
	Total	20		

Rubrics of the Activity

Criteria	Ratings			points
<p>This criteria is linked to a course process.</p> <p>Draw Circuit Digram</p>	<p>5-Points</p> <p>Solve and Draw</p>	<p>2.5 points for Solution</p> <p>2.5 points for Draw the circuit diagram</p>	<p>0 points for no description</p>	<p>5-Points</p>
<p>This criteria is linked to a course process</p> <p>Apply Demorgans theorem</p> <p>Implement the circuit by using AOI</p>	<p>5-Points</p> <p>Solve and Draw</p>	<p>2.5 points for Solution</p> <p>2.5 points for Draw the circuit diagram</p>	<p>0 points for no description</p>	<p>5-Points</p>
<p>This criteria is linked to a course process</p> <p>Minimizaion by using K-Map(4-variables)</p> <p>Realize by using NAND gates</p>	<p>5-Points</p> <p>Solve and Draw</p>	<p>2.5 points for Solution</p> <p>2.5 points for Realization by using NAND gates</p>	<p>0 points for no description</p>	<p>5-Points</p>

<p>This criteria is linked to a course process</p> <p>Minimization by using K-Map(5-variables)</p> <p>Using POS form</p>	<p>5-Points</p> <p>Solve and Draw</p>	<p>2 marks for Graphical representation</p> <p>3 marks for minimize the function.</p>	<p>0 points for no description</p>	<p>5-Points</p>
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DAV Institute of Engineering & Technology, Jalandhar				
Department of Electrical Engineering				
Class: B.Tech EE- 4th Sem Batch: 2020-2024				
Subject: Digital Electronics		Subject Incharge: Dr. Neeru Malhotra		
Activity Name: Jigsaw				
S.No.	Class Roll No.	University Reg. No.	Name of Student	Signature
1	302/20	2003695	Drishiti Bhatia	<i>Drishiti</i>
2	303/20	2003696	Kishpreet Kaur	<i>Kishpreet</i>
3	304/20	2003697	Navraj Singh	<i>Navraj Singh</i>
4	305/20	2003698	Rajanpreet Singh	<i>Ab.</i>
5	306/20	2003699	Rajat	<i>Rajat Arora</i>
6	307/20	2003700	Sahit Devgan	<i>Sahit Devgan</i>
7	308/20	2003701	Shifali Sharma	<i>Shifali Sharma</i>
8	309/20	2003702	Tushar Gill	<i>Tushar</i>
9	371/19	1903741	Kaushal Kumar	<i>Ab.</i>
10	311/20	2103332	Abhihek Prasher	<i>Abhihek</i>
11	312/20	2103333	Akhil Sharma	<i>Akhil Sharma</i>
12	313/20	2103334	Amandeep Kaur	<i>Aman</i>
13	314/20	2103335	Ashish Koundal	<i>Ashish</i>
14	316/20	2103337	Deepak Kumar	<i>Deepak</i>
15	317/20	2103338	Dheeraj Kumar	<i>Dheeraj Kumar</i>
16	318/20	2103339	Jujhar Singh	<i>Jujhar Singh</i>
17	320/20	2103341	Nikhil Kumar	<i>Ab.</i>
18	321/20	2103342	Prabhat	<i>Prabhat</i>
19	322/20	2103343	Rahul Sahota	<i>Rahul Sahota</i>
20	323/20	2103344	Tarun Sharotry	<i>Tarun</i>
21	324/20	2103345	Vishal	<i>Ab.</i>
22	354/19	1903688	Sonu Singh	<i>Ab.</i>

Neeru
 Dr. Neeru Malhotra

Name of the Activity: ROLE PLAY ON NIRAV MODI PNB SCAM

Class: MBA 2nd Sem

Subject: LEGAL ENVIRONMENT FOR BUSINESS

Year: 2021-23

Context:

This is a group activity. It involves planning, scripting, executing, acting, and performing.

The activity was allotted on 26 April 2022 and will be conducting on 13 May 2022 in the 4th lecture in Room No. 28.

We would like to express our heartiest gratitude to our teacher Dr. Megha M. Sharma, who gave us a golden opportunity to do this wonderful activity regarding the legal case of NIRAV MODI SCAM. Her continuous input and support have helped us to complete this activity. This role-play activity has helped everyone to learn something new and enhance their communication skills, confidence, management skills, and ensure coordination among the team.

This is a group activity, a team of 12 members who are presenting the role play on the NIRAV MODI PNB SCAM. The play will help in knowing the various unknown facts about the case. It will enhance our confidence and will help every member of the team to explore their acting skills. Every team member is giving their best. Every member is acting as a helping hand in the difficulties of each other. All of us are showing our full support and coordination to make this play successful and knowledgeable.

ACTIVITY DESCRIPTION

The basis of the activity is for each person to become an expert in the subject and then to teach that information to their peers. It can be somewhat confusing to figure out how to group the students, but if you have the patience to try it, it can be an excellent resource when you need to convey a lot of information in a small amount of time.

1. Students are playing the different characters involved in the scam. Each character has equal importance and relevance in the play.
2. The activity is basically about the deep study of how the fraudulent activities were being conducted by Nirav Modi which were unknown to law and order and financial institutes of the country for a long time.
3. Group of 12 members is made and asked to conduct the whole scam in the form of roleplay.

Roleplay exercises give students the opportunity to assume the role of a person or act out a given situation. These roles can be performed by individual students, in pairs, or in groups which can play out a more complex scenario. Basically, it is the practice of having students take on specific roles - usually ones in which they are not familiar - and act them out in a case-based scenario for the purpose of learning course content or understanding. Role plays engage students in real-life situations or scenarios that can be “stressful, unfamiliar, complex, or controversial” which requires them to examine personal feelings toward others and their circumstances.

The main aim of conducting this activity is to introduce an effective learning atmosphere where students can relate to the theoretical knowledge through the act of play. The theoretical subject matters become easy to understand when they are explained in simplified and cinematic presentations.

HOW IT IS CONDUCTED

1. Team of 12 members is created. Everyone is asked to search about the case study of the scam. Viewpoints regarding the execution and planning are contributed by everyone.
2. One voluntary member solely writes the screenplay and dialogue for each character.
3. The write-up of the script shows the writer's dedication, hard work, and commitment to his work.
4. Then characters were allotted to every one according to their compatibilities and communication skills.
5. Use of a projector, chairs, tables, narrator, audio, and videos is made to make it more impactful and realistic.
6. Continuous practices were done to manage the coordination and synchronization of scenes.
7. It will be performed in our classroom, room no.28 in front of our teacher and other classmates.
8. The role play is about 20 mins.
9. We have tried to make our audience understand, how actually scam was being conducted by Nirav Modi by issuing a FAKE LETTER OF UNDERTAKINGS.
10. We have explained the various terms like LOUs, SWIFT, MONEY LAUNDERING, and CBS through the case. Also, how Nirav Modi and his uncle Mehul Choksi misused the loopholes of our country's financial system for their benefit.

WHAT WE HAVE LEARNT FROM IT

Everyone has furnished their communication skills and enhanced their confidence level. Many of us have overcome their stage fear. The continuous support and guidance from our worthy teacher Dr. Megha M. Sharma mam have helped us in making the challenging thing possible easily.

Everyone was initially nervous and quite worried about how things will happen but the support and courage we got from our classmates made us enthusiastic. We have learned to manage things with available resources.

WHAT WE EXPERIENCED

During and after this activity we have learned and will be working on our mistakes:

ESHAN: I worked on my body language and interaction with the audience

HARDHIKA: I felt confident and motivated to participate in these activities.

SHIVANI: I worked on my tone and pitch of speech.

ASHIMA: I felt confident and ensured my participation in the future.

AVINASH: It helped me to improve my communication skills

AKASH: How to be a team player

ANJALI: It's a very new experience for me before I never did any kind of roleplay. This activity helps me to enhance my confidence.

RITAMBHARA: I learned how to express different emotions, expressions, and the importance of lawyers in legal cases. Overall, it helped me to showcase the best version of myself.

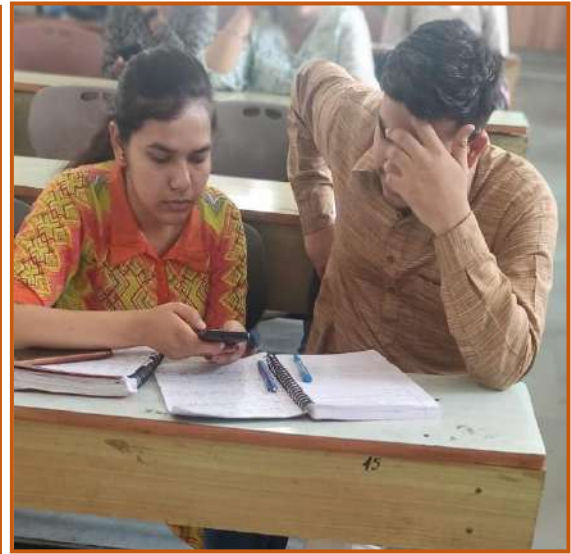
NEEL: I furnished my skills like coordination, teamwork, and collective efforts.

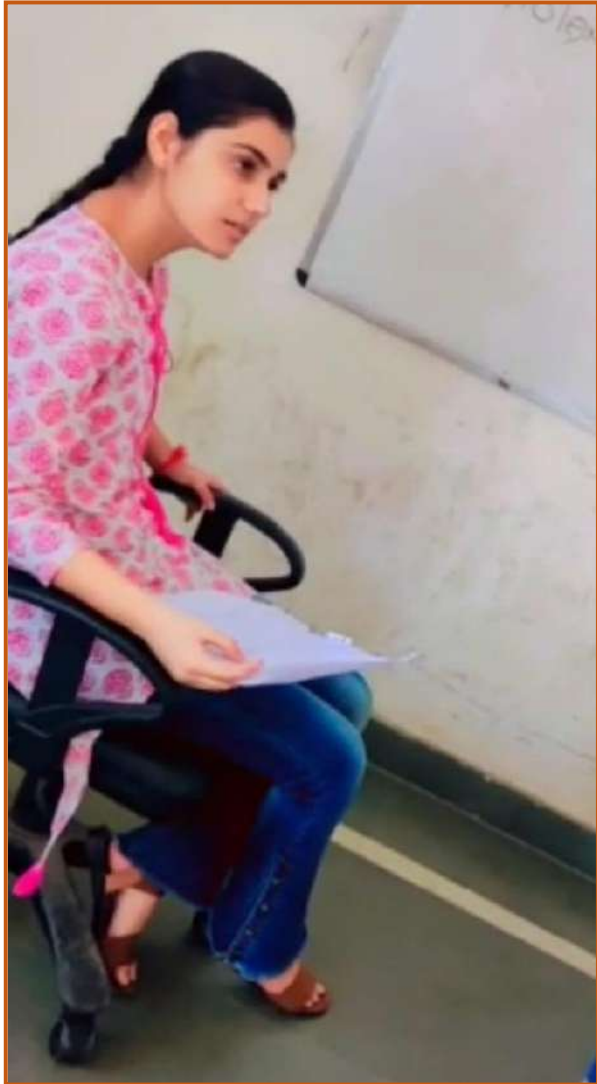
MANSI ANAND: It improved my communication skills.

AARUSHI: It increased my social space and developed my listening as well as speaking skills. This Roleplay was a flexible tool that helped me to make a sense of theory through practical experience.

SOURAV: It was my first time doing a roleplay. I got out of my comfort zone and gained human interaction.

FUN WHILE WE LEARN





THE FINAL SHOT



SCENE 1 & SCENE 2



SCENE 3



SCENE 4



SCENE 5



THE END



***TEAM NIRAV MODI
BEFORE THE ROLE PLAY***



***OUR TEAM AFTER
SUCCESSFULLY EXECUTING
THE ROLE PLAY***



ONE WITH OUR SUPPORT SYSTEM

AT LAST, WE CONCLUDE THAT IT WAS A FABULOUS EXPERIENCE AND WE ALL ENJOYED PERFORMING THIS ACTIVITY VERY MUCH. THANK YOU, OUR RESPECTED TEACHER, FOR THIS OPPORTUNITY.

DAV Institute of Engineering & Technology, Jalandhar
Department of Electrical Engineering

Ref. no. EE/1008

Dated:-22nd October, 2020

Departmental Circular

It is for the information of all the faculty/staff and students of 3rd, 5th & 7th Semester of Electrical Engineering that department is going to organize an "Expert Lecture" titled "Integration of Renewable Energy Sources in Competitive Power Market" by Dr. Naveen Sharma, Assistant Professor, Electrical Engineering Department, Punjab Technical University, Main Campus on Monday i.e. 26th October, 2020 at 11:00 AM to 01:00 P.M via online mode.

It is mandatory for all faculty/staff and above said students of Electrical Engineering department to attend the same and all class in-charges are also requested to take attendance of students of their respective sections.

Cep 22-10-20
HOD (EE)

- CC: 1. The Principal DAVIET, for his kind information.
2. Departmental Notice Board.

Robo-Tug of War on 14 feb 2020

The Department of ECE had organized the event "Robo-Tug of War". The participants of event were from the department of CSE, I.T. & ECE. It is well known that in tug of war, winner is always the stronger of the two teams. For this event, the bots were put on the track and the winner is the team which pulls the opponent's bot over the mid line. At the end, the team Electronauts – Aahaana, Manpreet S and Ayush from ECE-6th Sem were declared winners. The runners up were the team MetalHeads- Ayush, Mehak Sharma and Aastha all from I.T.-2nd Sem.

Dr. Neeru Malhotra, Head, appreciated the faculty coordinators Dr. Love Kumar and Mr. Navleen S Rekhi for the success of the event. She also congratulated the student coordinators: Ajooni Walia, Harish Kumar, Mayank Verma and Harpreet Singh for their sincere efforts to prepare and motivate the participants for their active participation in the event.

At the valediction ceremony, faculty members of ECE also congratulated the winners.



Winners of Robo-Tug of war

DAV Institute of Engineering & Technology

Department of ECE

Vision of Department: To produce technically competent and socially responsible professionals

Mission of Department: To provide conducive learning environment, industry oriented training and platform for versatile development of students

Ref. No.: DAVIET/ECE/2019-20/ 2029

Dated: 09-01-2020

Circular

It is to bring to the information of all respective departments that Department of ECE under the club of *IneoCreators* is organising "Arduino Workshop" from 16th January till 21st January 2020. Any student interested in attending the workshop can register their names to Manpreet Singh (ECE-6th Sem, Cell No.: 8837750131) on or before 10th January 2020.

Dr. Neeru Malhotra

(Associate Professor & Head)

Copy to:

1. The Principal, DAVIET for his kind information.
2. All Departments
3. Website Coordinator
4. Information Notice Board

Handwritten signatures and dates:

- Principal: [Signature] 9/1/20
- EE: [Signature] 9/1/2020
- Disposal of time: [Signature] 9/1/20
- CA: [Signature] 9/1/2020
- MBR: [Signature]
- ADP: [Signature] 09-01-2020
- ME: [Signature]
- CSE: [Signature]
- 9/1/20
- 9/1/20

Department of ECE, DAVIET Jalandhar organised **Robo Race 2.0** in March, 2021

DAV Institute of Engineering & Technology Jalandhar
in Collaboration with
Society of Ineo Creators
Organizes
Robo Race 2.0
at
Department of ECE



Design a Robot wired or wireless that can operate manually and can travel through all turns

Venue: Tennis Court **Registration: till March 10,2021**

Patron
Dr. Neeru Malhotra
Associate Prof. & Head,ECE

Organizing Secretary(Faculty)
Dr. Love Kumar
Mr. Navleen S Rekhi

Co-organizing Committee (Students)

Harpreet Kaur 6283438119	Hiteshi 9816961018	Karan 7973864206	Yomesh Nayyar 9056593049
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Robo race 2.0 by ECE department

DAV Institute of Engineering & Technology

Department of ECE

Vision of Department: To produce technically competent and socially responsible professionals

Mission of Department: To provide conducive learning environment, industry oriented training and platform for versatile development of students

Ref. No.: DAVIET/ECE/2019-20/ 2029

Dated: 09-01-2020

Circular

It is to bring to the information of all respective departments that Department of ECE under the club of *IneoCreators* is organising "Arduino Workshop" from 16th January till 21st January 2020. Any student interested in attending the workshop can register their names to Manpreet Singh (ECE-6th Sem, Cell No.: 8837750131) on or before 10th January 2020.

Dr. Neeru Malhotra

(Associate Professor & Head)

Copy to:

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Handwritten notes and signatures:

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- ME: [Signature]
- CSE: [Signature]
- MBR: [Signature]
- ADP: [Signature]
- 9/1/20
- 9/1/20

Arduino Workshop in Jan 2020

24 Jan 2020 With the continuous support and blessings of The Principal, Dr. Manoj Kumar, Department of ECE under the club of Ineo Creators had organized "Arduino Workshop" from January 16-21, 2020. The faculty coordinators, Mr Navleen S Rekhi, and Dr. Love Kumar, under the leadership of Dr. Neeru Malhotra, Associate Prof. and Head, had made the necessary arrangements for the smooth conduct of the workshop.

The theme of the workshop is to inculcate the enthusiasm of dealing the conceptual learning practically. More than 50 students had participated from various Departments of the institute. The workshop was focused on the basics of Arduino and its practical utility. The student coordinators, Daksh Vachher, Dhairyia Jain, Manpreet S, Ajooni Walia , Harish Kumar and Ayush all of ECE-6th Semester had mentored the participants and conducted the practical sessions. The participants were imparted with the knowledge about various sensors, PCB layout and applications of Arduino. The discussion forum was also held before the start of every session. It helped out to clear the doubts and attained the better understanding of the development board.

The successful completion and accomplishment of theme was acknowledged from the feedback form filled by the participants. Keeping this in mind, Dr. Neeru Malhotra gave a vote of thanks and congratulate the team of co-ordiantors for success of the event. She also added to conduct more such events for creating technically competent professionals. On valediction ceremony, the certificates were given to the participants and congratulated them for fruitful participation.



Students - learning through workshop session

2. Survey camp – 2018 at Khajjiar, H.P.: The Experiential learning Exercise

Department of Civil Engineering organised a Survey camp from 5-12th June, 2018 for the of 3rd year Civil Engineering students. This survey camp was organized at Khajjiar, Distt. Chamba (H.P.) This camp was aimed to groom Civil Engineering Students with essential knowledge and exposure to the real field work, and to encourage leadership and teamwork skills.

The Survey Camp was divided into two phases.

In 1st phase, the field work (measurements & plotting) and in 2nd phase calculations, results analysis and preparation of the topographic sheets were done. **The class of 67 students was divided into 7 groups with 9-10 students in each group** which were monitored by faculty coordinators Sh. Manish Bhutani, Assistant Professor (CE) and Sh. Gobind Khurana, Assistant Professor (CE). In the Survey camp, all students learnt the Technical aspects of surveying. The day wise schedule was provided to the students by the faculty coordinators.

Surveying process started with Reconnaissance Survey and traverse stations were located and marked. Following it, lengths and internal angles between the marked stations were measured with the help of tape and theodolite. Plane table surveying was done and all the natural and manmade features were marked. On the basis of the measured data and plotted features, topographic sheets were prepared.

Students were also introduced to the Total station (modern surveying instrument). Total station was used to verify the angles and lengths which were measured by the students with the help of theodolite and tape. Also the contouring work was completed by each group using Total Station. Levels were transferred from the milestone near to the survey site to each group using auto level and further levels of the area surrounding to all groups were recorded with the help of Total Station. Total area covered for Survey was 12,000 sq.m.





Students were thankful to the worthy Principal, Head of the department and faculty coordinators for their approval and guidance in conducting this camp successfully.

Industrial visit

Civil engineering 3rd semester students visited the sewage treatment plant (STP) at Jalandhar 11th June 2018.



3. Survey camp – 2019 at Solang Valley, H.P. : The Unique Experiential learning

The Survey Camp was organized in June 2019, with reference to the 4 weeks training after the IVth semester. This time survey camp was organised at a Hilly Terrain i.e Solang Valley,H.P.

The camp Incharge faculty:

1. Dr. Sanjay Goel, Asst. Prof, CE
2. Er. Manpreet Singh bedi, Asst. Prof, CE
3. Sudheer Kumar J, Asst. Prof, CE
4. Mr. Harvinder Kumar Gulati, Lab. Technician

The main objective:

- Traversing – using a Theodolite
- Drawing a Topographical Map of the area – using Plane Table.
- Contouring – using Dumpy/Auto Level and Shaft.

The main aim of the camp was to gain an overall experience in the field.

SCHEDULE: 1st June to 10th June.

The class was divided in groups and these groups were allocated the activities alternatively. During the initial period of the camp, students Traversed the



Teachers use ICT enabled tools for effective teaching -learning process.

Number of teachers using ICT	Number of teachers on roll	ICT tools and resources used	Number of ICT enabled classrooms	Number of smart classrooms	E- Resources and Techniques used
122	122	Projectors smart boards video lectures, Learning management system LAN/Wi-Fi, Microsoft teams, Webinars, Google forms	22	2	Nptel, online courses and certification Swayam Central YouTube vidoes Ebooks: E resources, nptel e-journals, NPTEL course ebook SWAYAM Cogprints MathGuide SocioSite libraries Virtual Library Internet Public Library Project Gutenberg Read Print National Digital Library of India LearnEngg app



Principal

D.A.V. Institute of Engineering & Technology
Kabir Nagar, Jalandhar-144008



Problem solving methodology

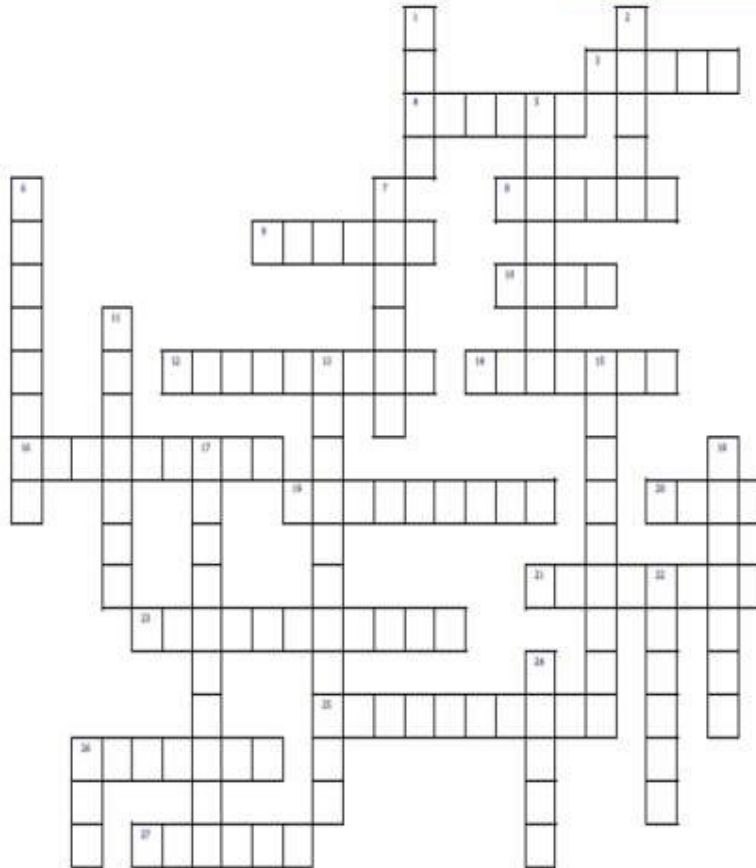
DAV Institute of Engineering & Technology, Jalandhar
Department: Electrical Engineering

CAY: 2019 – 2020

Class – B.Tech EE
Subject – Electrical Circuit Analysis (BTEE-301-18)

Semester – 3rd
Technical Quiz – 4

Electric circuit crossword



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Signature of Subject In-charge: Rahul Sharma

Signature of Module Coordinator: Sushil Prashar

DAV Institute of Engineering & Technology, Jalandhar
Department: Electrical Engineering

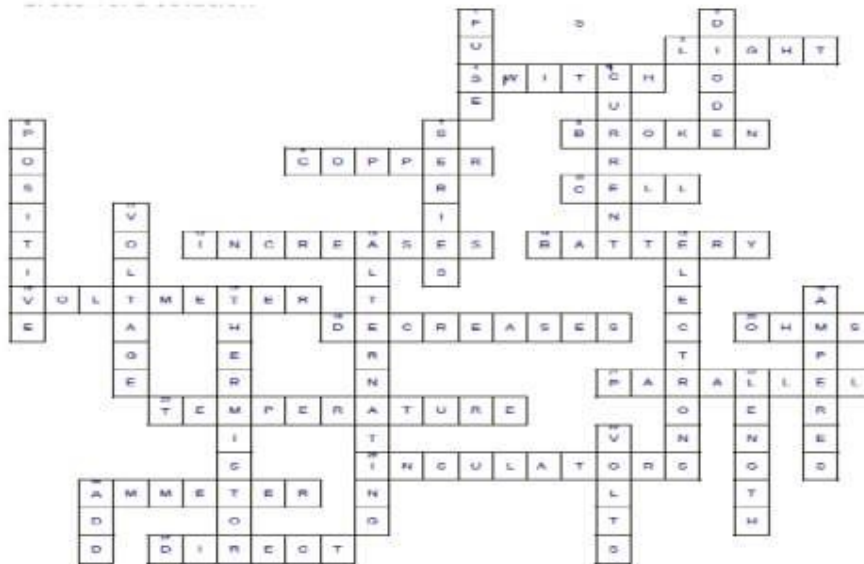
CAY: 2019 – 2020

Clues across

- 3 What causes the resistance of a LDR to decrease?
- 4 A closed one allows the current to flow.
- 8 When a circuit is, the current no longer flows.
- 9 A good conducting metal used in circuits.
- 10 A type of power source.
- 12 Adding resistors in series the total resistance in the circuit.
- 14 This component provides electrical energy.
- 16 What would you use to measure the potential difference?
- 19 Adding a resistor in parallel the total resistance in the circuit.
- 20 Resistance is measured in
- 21 The electric circuit of a car is in
- 23 Increasing this increases a wire's resistance.
- 25 Poor conductors of electricity.
- 26 Which component is used to measure current?
- 27 A battery supplies current.

Clues down

- 1 Protects equipment from electrical surges.
- 2 Which component allows the current to flow one way through it?
- 5 A flow of electrons.
- 6 The flow of charge in a circuit moves from negative to ...?
- 7 In which type of circuit is the current the same all the way round?
- 11 Another word for the potential difference of a cell.
- 13 Domestic supply uses an current.
- 15 An electric current is the flow of these.
- 17 Which component can be used as a temperature sensor?
- 18 The unit of current.
- 22 Resistance increases as the of the wire increases.
- 24 Potential difference is measured in these.
- 26 To find the total resistance you need to ... the different resistances together.



Signature of Subject In-charge: Rahul Sharma

Signature of Module Coordinator: Sushil Prashar

DAV Institute of Engineering & Technology, Jalandhar
Department of Civil Engineering

CAY: 2017-2018

B. Tech. (CE) – 5th Semester
APTITUDE TEST - 1

Subject: General

Date:
Roll No.

One Mark Questions

1. The following sequence of numbers is arranged in increasing order 1,x,x,x,y,y,9,16,18 given that the mean and median are equal and are also equal to twice the mode, the value of y is

(a) 5 (b) 6
(c) 7 (d) 8

[GATE-2017 SET-I]

2. If the radius of a right circular cone is increased by 50% its volume increase by
- (a) 75% (b) 100%
(c) 125% (d) 237.5%

[GATE-2017 SET-I]

3. Consider the following sentences:
All benches are beds.
No bed is a bulb.
Some bulbs are lamps.
Which of the following can be inferred?
- (i) Some beds are lamps
(ii) Some lamps are beds.
- (a) Only (i)
(b) Only (ii)
(c) Both (i) and (ii)
(d) Neither (i) nor (ii)

[GATE-2017 SET-I]

4. What is the value of x when

$$81 \times \left(\frac{16}{25}\right)^{x+2} \div \left(\frac{3}{5}\right)^{2x+4} = 144 ?$$

- (a) 1
(b) -1
(c) -2
(d) Cannot be determined

[GATE-2017 SET-II]

5. Four cards lie on a table. Each card has a number printed on the one side and a color on the other. The faces visible on the cards are 2, 3, red and blue.

Proposition. If a card has an even value on one side then its opposite face is red.

The cards which MUST be turned over to verify the above proposition are

- (a) 2, red (b) 2, 3, red
(c) 2, blue (d) 2, red, blue

[GATE-2017 SET-II]

6. Two dice are thrown simultaneously. The probability that the product of the numbers appearing on the top faces of the dice is a perfect square is

- (a) 1/9 (b) 2/9
(c) 1/3 (d) 4/9

[GATE-2017 SET-II]

7. Fact 1 : Humans are mammals,
Fact 2 : Some humans are engineers.
Fact 3 : Engineers build houses.
If the above statements are facts, which of the following can be logically inferred?

DAV Institute of Engineering & Technology, Jalandhar
Department of Civil Engineering

CAY: 2017-2018

APPTITUDE TEST - 1

- I. All mammals build houses.
 II. Engineers are mammals.
 III. Some humans are not engineers.
 (a) II only (b) III only
 (c) I, II and III (d) I only

[GATE-2016 SET-II]

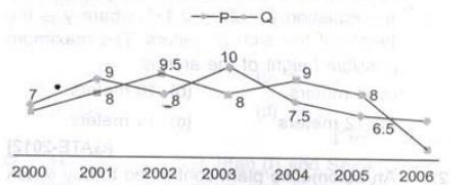
8. A square pyramid has a base perimeter x , and the slant height is half of the perimeter. What is the lateral surface area of the pyramid?
 (a) x^2 (b) $0.75x^2$
 (c) $0.50x^2$ (d) $0.25x^2$

[GATE-2016 SET-II]

9. Ananth takes 6 hours and Bharath takes 4 hours to read a book. Both started reading copies of the book at the same time. After how many hours is the number of pages to be read by Ananth, twice that to be read by Bharath? Assume Ananth and Bharath read all the pages will constant pace.
 (a) 1 (b) 2
 (c) 3 (d) 4

[GATE-2016 SET-II]

10. Two finance companies, P and Q, declared fixed annual rates of interest on the amounts invested with them. The rates of interest offered by these companies may differ from year to year. Year-wise annual rates of interest offered by these companies are shown by the line graph provided below.



If the amounts invested in the companies, P and Q, in 2006 are in the ratio 8:9, then the amounts received after one year's interests from companies P and Q would be in the ratio:

- (a) 2:3 (b) 3:4
 (c) 6:7 (d) 4:3

[GATE-2016 SET-II]

11. $(x\% \text{ of } y) + (y\% \text{ of } x)$ is equivalent to _____.
 (a) 2% of xy (b) 2% of $(xy/100)$
 (c) $xy\%$ of 100 (d) 100% of xy

[GATE-2016 SET-II]

12. The sum of the digits of a two digit number is 12. If the new number formed by reversing the digits is greater than the original number by 54, find the original number.
 (a) 39 (b) 57
 (c) 66 (d) 93

[GATE-2016 SET-II]

13. If 'relftaga' means carefree, 'otaga' means careful and 'fertaga' means careless, which of the following could mean 'aftercare'?
 (a) zentaga (b) tagafer
 (c) tagazen (d) relffer

[GATE-2016 SET-I]

14. A cube is built using 64 cubic blocks of side one unit. After it is built, one cubic block is removed from every corner of the cube. The resulting surface area of the body (in square units) after the removal is _____.
 (A) 56 (B) 64
 (C) 72 (D) 96

[GATE-2016 SET-I]

15. Mr. Vivek walks 6 m N-E, then turns and walk 6 S-E, both at 60° to East. He further moves 2m South and 4 m West. What is the straight distance in meter between the point he started from and the point he finally reached?
 (a) $2\sqrt{2}$ (b) 2
 (c) $\sqrt{2}$ (d) $1/\sqrt{2}$

[GATE-2015 SET-II]

16. Four cards are randomly selected from a pack of 52 cards. If the first 2 cards are kings, what is the probability that 3rd card is king?
 (a) $\frac{4}{52}$ (b) $\frac{2}{50}$
 (c) $\left(\frac{1}{52}\right) \times \left(\frac{1}{52}\right)$ (d) $\left(\frac{1}{52}\right) \times \left(\frac{1}{51}\right) \times \left(\frac{1}{50}\right)$

[GATE-2015 SET-I]

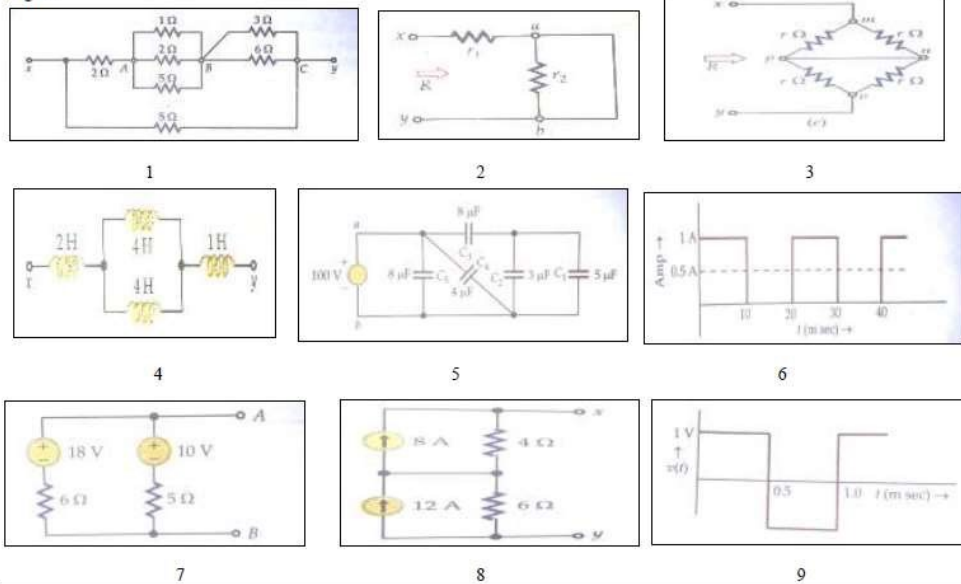
DAV Institute of Engineering & Technology, Jalandhar
Department: Electrical Engineering

CAY: 2020 – 2021

Class – B.Tech ECA Subject – Electrical Circuit Analysis (BTEE-301-18) Level of difficulty - 1 Date of Issue: 12-08-20	Tutorial	Semester – 3 rd Tutorial No. – 1 Date of Submission: 19-08-20
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Quest. No.	Question	CO's RBT Level	Max marks: 10
1	a) Find the equivalent resistance across x-y of the circuit in figure 1 b) Find R across terminal x-y in figure 2 c) Determine equivalent resistance R across x-y in figure 3	CO1, L1	1
2	Find the equivalent inductances in figure 4	CO1, L1	1
3	Determine Equivalent capacitance across terminal (a-b) (in figure 5). Also find the charging time to charge these capacitances by a steady direct current of constant magnitude of 10A.	CO1, L2	1
4	In the circuit, the current wave is represented as $I = 5 \sin(314t - \pi/4)$. Find the i) r.m.s value of current, ii) average value of current, iii) phase angle of current	CO1, L2	1
5	A non-alternating periodic waveform has been shown in figure 6. Find its form factor.	CO1, L3	1
6	Two 100 W, 220V bulbs are required to be connected across a 400 volts supply. Find the value of the resistance to be inserted in the line so that the voltage across the bulbs does not exceed 220V.	CO1, L2	1
7	A voltage of $v = 10 \sin 314 t$ is applied to an inductance of 5mH. Determine I, instantaneous power p, and Average power P.	CO1, L2	1
8	a) Obtain single current source in figure 7. b) Obtain single voltage source in figure 8.	CO1, L3	2
9	A square voltage wave is applied across a 1mH inductor. What is the type of current? What is the peak current?	CO1, L2	1

Figure:



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Subject In-charge: Rahul Sharma

Module Coordinator: Sushil Prashar

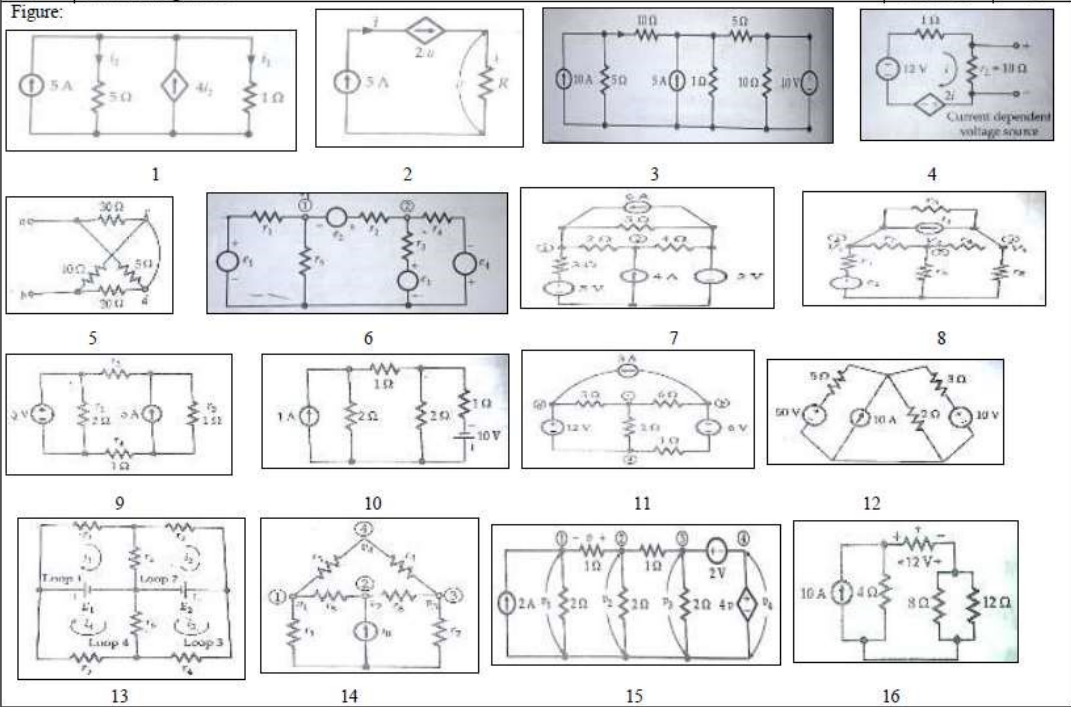
DAV Institute of Engineering & Technology, Jalandhar
Department: Electrical Engineering

CAY: 2020 – 2021

Class – B.Tech ECA Subject – Electrical Circuit Analysis (BTEE-301-18) Date of Issue: 19-08-20	Tutorial	Semester – 3 rd Tutorial No. – 2 Date of Submission: 26-08-20
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Quest. No.	Question	CO's RBT Level	Marks
1	Find current $i(1)$ and $i(2)$ in figure 1	CO1, L3	1
2	Find the value of R in the circuit in figure 2	CO1, L3	1
3	Obtain current $i(1)$ using KVL in figure 3	CO1, L3	1
4	Obtain the voltage output across r (L)	CO1, L3	1
5	Find the voltage needed across a-b terminal so that the drop across the 10 ohm resistor is 30 V. in figure 5	CO1, L3	1
6	i, ii, iii) Develop nodal equation for figure 6,7,8 iv) Find current through the resistor r (2) by nodal method in figure 9 v) Using mesh analysis, obtain the current through the 10V battery in figure 10	CO1, L4	2
7	i) Using Mesh analysis develop node voltage and current in figure 11 ii) Using mesh analysis find the current through the 50 V source in figure 12 iii) Write down the mesh equation for figure 13	CO1, L4	1
8	i, ii) Form the nodal equations for figure 14 & 15	CO1, L4	1
9	Find r in figure 16	CO1, L4	1

Figure:



DAV Institute of Engineering & Technology, Jalandhar
Department: Electrical Engineering

CAY: 2020 – 2021

Class – B.Tech ECA
 Subject – Electrical Circuit Analysis (BTEE-301-18)
 Level of difficulty - 3
 Date of Issue: 26-08-20

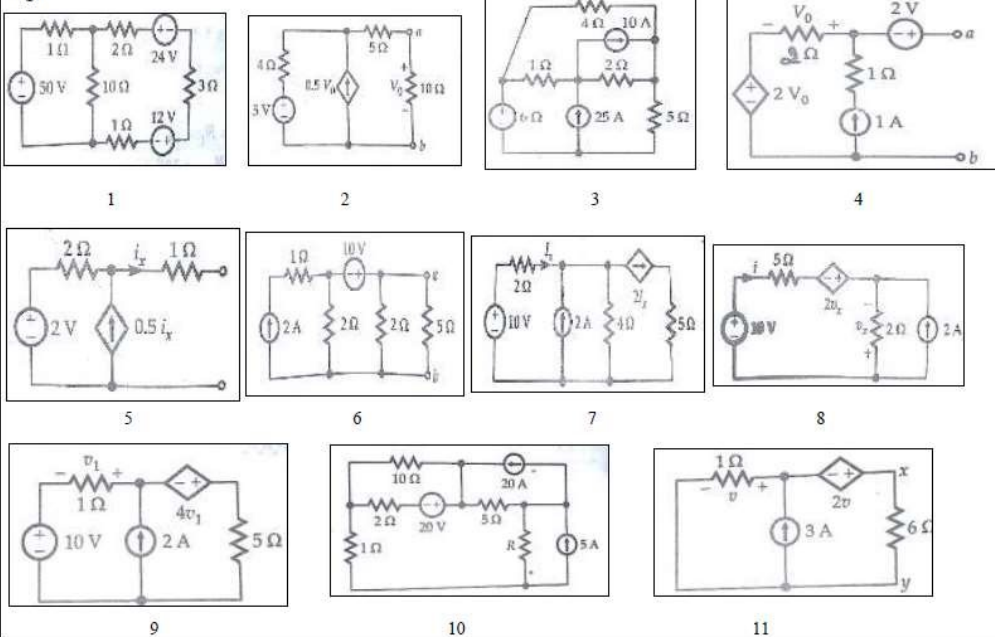
Tutorial

Semester – 3rd
 Tutorial No. – 3

Date of Submission: 02-09-20

Quest. No.	Question	CO's RBT Level	Marks
1	Find the current in the 10 ohm resistor in the circuit using thevenin's theorem. What is the power loss in that resistor? Figure 1	CO1, L4	1
2	Find the power loss in the 10 ohm resistor in figure 2 using thevenin's theorem	CO1, L4	1
3	Utilizing Thevenin's theorem find the current in 5 ohm resistance in figure 3	CO1, L4	1
4	Find norton's equivalent circuit at the left of terminal a-b for the figure 4	CO1, L4	1
5	Find norton's equivalent across x-y for the figure 5	CO1, L4	1
6	Using Norton theorem, what is the current in the 5ohm resistor across a-b terminal in figure 6	CO1, L4	1
7	Using Norton theorem, find the current through the 2ohm resistor in figure 7. Verify your result by thevenin's theorem.	CO1, L4	1
8	Find i in the circuit using superposition theorem in figure 8	CO1, L4	1
9	Find the loss in 5 ohm resistor by superposition theorem in figure 9	CO1, L4	1
10	What is amount of maximum power transfer to R in figure 10	CO1, L4	1
Extra	Find the current in the 6 ohm resistor using thevenin's theorem in figure 11. Verify using Norton's theorem.		

Figure:



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Subject In-charge: Rahul Sharma

Module Coordinator: Sushil Prashar

DAV Institute of Engineering & Technology, Jalandhar
Department: Electrical Engineering

CAY: 2020 – 2021

Tutorial	
Class – B.Tech ECA	Semester – 3 rd
Subject – Electrical Circuit Analysis (BTEE-301-18)	Tutorial No. – 4
Level of difficulty - 2	Date of Submission: 02-10-20
Date of Issue: 16-09-20	

Quest. No.	Question	CO's RBT Level	Marks
1	In a simple T section, a low pass filter has design impedance R_o . Find $Z_{o\pi}$ at $0.9 f_c$.	CO4, L3	0.5
2	Design a constant k-low pass filter having $f_c = 2.5$ kHz and $R_o = 700$ ohm. Also find the frequency at which this filter produces attenuation of 19.1 db. Find its characteristics impedance and phase constant at pass band and stop or attenuation band.	CO4, L4	0.5
3	Design a T and π section constant – K high pass filter having cut off frequency of 12 kHz and $R_o = 500$ ohm. Also find its characteristics impedance and phase constant at 24 kHz. And attenuation at 4 kHz.	CO4, L4	0.5
4	Design a T section constant k-high pass filter having cut off frequency of 10 kHz and $R_o = 600$ ohm. Find its characteristics impedance and phase constant at 25 kHz.	CO4, L4	0.5
5	Design a low pass filter having cut off frequency at 796 Hz when terminated in a 600 ohm resistance, in both T and π configurations.	CO4, L4	0.5
6	Design a constant k high pass filter T and π section having $f_c = 5$ kHz and $R_o = 600$ ohm.	CO4, L3	0.5
7	Design a prototype band pass filter (T and π) having $f_c = 3$ kHz and 6 kHz and $R_o = 600$ ohm. Also find the resonant frequency of shunt arm or series arm.	CO4, L4	0.5
8	Design a prototype band stop filter (T) having $f_c = 2$ kHz and 5 kHz and $R_o = 600$ ohm.	CO4, L4	0.5
9	Design a prototype band pass filter to match with a load of $R_o = 600$ ohm and to allow frequency between 3 kHz and 6 kHz.	CO4, L4	0.5
10	Design a m-derived low pass filter (T & π section having $f_c = 1.5$ kHz and $R_o = 500$ ohm and infinite attenuation frequency = 2 kHz.	CO4, L4	0.5
11	Design a m-derived High pass filter (T & π) section having $f_c = 4$ kHz and $R_o = 600$ ohm and infinite attenuation frequency = 3.6 kHz.	CO4, L4	0.5
12	Design a m-derived low pass filter (T & π) section to match a line having characteristics impedance of 500 ohm and to pass signal upto 1 kHz with infinite attenuation occurring at 1.2 kHz.	CO4, L4	0.5
13	Design a m-derived low pass filter T section having $f_c = 7$ kHz and $R_o = 600$ ohm and infinite attenuation frequency = 10.5 kHz.	CO4, L4	0.5
14	Design a m-derived High pass filter having $f_c = 5$ kHz and $R_o = 600$ ohm and $m = 0.35$. Also determine the frequency of infinite attenuation.	CO4, L4	0.5
15	Design a half section of a composite HPF section consisting of a prototype HPF with $L = 40$ mH, $C = 0.1$ μ F. The load is 600 ohm and cut off frequency is 1 kHz. Take $m = 0.6$.	CO4, L4	0.5
16	A prototype High Pass Section with $L = 4.77$ mH and $C = 0.01326$ μ F has a cut off frequency of 10 kHz and design impedance of 600 ohm. Design a suitable terminating half section with $m = 0.6$ such as to operate with cut off frequency.	CO4, L4	0.5
17	Design a composite low pass filter to operate with a design impedance 500 ohms, $m = 0.2$ and cut off frequency = 2 kHz.	CO4, L4	1
18	Design a complete composite HPF having m-derived section $m = 0.4$ and prototype HPF with $L = 40$ mH and $C = 0.1$ μ F.	CO4, L4	1

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Subject In-charge: Rahul Sharma

Module Coordinator: Sushil Prashar

DAV Institute of Engineering & Technology, Jalandhar
Department: Electrical Engineering

CAY: 2020 – 2021

Class – B.Tech ECA Subject – Electrical Circuit Analysis (BTEE-301-18) Level of difficulty - 3 Date of Issue: 03-10-20	Tutorial Semester – 3 rd Tutorial No. – 5 Date of Submission: 28-10-20
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Quest. No.	Question	CO's RBT Level	Max marks: 10 Marks
1	Find the Laplace transform of i. $f(t) = 1 - e^{-2t}$ ii. $x(t) = u(t) - u(t - \theta)$ iii. $t \sin 2t$	CO4, L3	0.5
2	A function is given as $z(s) = 3(s + 1) / s (s + 2) (s + 3)$. Find final value of $z(t)$ by final value theorem.	CO4, L4	0.5
3	Find the final value of the current in a RL circuit following step response using final value theorem.	CO4, L4	0.5
4	In RC series circuit, for a step input voltage, determine the initial current at $t = 0+$ following switching on at $t = 0$ using the initial value theorem. Assume the initial charge to be $+ Q_0$ in the capacitor.	CO4, L4	0.5
5	Assume the initial current to be 2A through the inductor, find $V_o(t)$. What will be $V_o(t)$ if the supply is $10e^{-t} u(t)$?	CO4, L4	0.5
6	A 10 volts step voltage is applied across a RC series circuit at $t = 0$. Find $i(t)$ at $t = 0+$ and obtain the value of $di/dt _{t=0+}$. Assume $R = 100 \text{ ohm}$, $C = 100 \mu\text{F}$.	CO4, L3	0.5
7	$S^8 + S^7 + S^6 - 2S^5 + 4S^3 - S^2 + S + 1$ is Hurwitz or not.	CO4, L4	0.5
8	i) $S^4 + S^3 + 2S^2 + 3S + 2$ is Hurwitz or not. ii) $S^4 + S^3 + 6S^2 + 3S + 6$ is Hurwitz or not. iii) $S^3 + 6S^2 + 11S + 6$ is Hurwitz or not.	CO4, L4	0.5
9	Test whether the polynomial $S^5 + S^3 + S$ is Hurwitz or not.	CO4, L4	0.5
10	Test whether the polynomial $S^4 + 3S^2 + 2$ is Hurwitz or not.	CO4, L4	0.5
11	Find the range of values of m in $P(s)$ so that $P(s)$ is Hurwitz. $P(s) = 2S^4 + S^3 + mS^2 + S + 2$	CO4, L4	0.5
12	Test the following polynomial for its Hurwitz <input type="checkbox"/> $S^8 + 3S^7 + 10S^6 + 24S^5 + 35S^4 + 57S^3 + 50S^2 + 36S + 24$	CO4, L4	0.5
13	Realize FOSTER and CAUER $Z(s) = (S^2+1)(S^2+8) / S (S^2+4)$	CO4, L4	0.5
14	Synthesize $Z(s)$ in CAUER-II form $Z(s) = 8S^3 + 10S / S^4 + 6S^2 + 5$	CO4, L4	0.5
15	Synthesize $Z(s)$ in CAUER-II form $Z(s) = S^5 + 5S^3 + 4S / S^4 + 3S^2 + 1$	CO4, L4	0.5
16	Synthesize $Z(s)$ in foster – I and II form $Z(s) = 8 (S^2+4)(S^2+25) / S (S^2+16)$	CO4, L4	0.5
17	$Z(s) = (S+4)(S+6) / (S+3)(S+5)$ Find CAUER- I and II form of $Z(s)$ if possible	CO4, L4	0.5
18	Realize RC driving point impedance FOSTER-I and CAUER-II $Z(s) = S^2 + 4S + 3 / S^2 + 2S$	CO4, L4	0.5
19	$Z(s) = 8 (S^2+1)(S^2+3) / S (S^2+2) (S^2+4)$ realize network Foster-I and Cauer-II	CO4, L4	0.5
20	RL representation of Foster-I form $Z(s) = 2 (S+1)(S+3) / (S+2)(S+4)$	CO4, L4	0.5

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Subject In-charge: Rahul Sharma

Module Coordinator: Sushil Prashar

DAV Institute of Engineering & Technology, Jalandhar
Department: Applied Sciences

Class/ Semester: ECE/1st Subject with Code: Semiconductor & Optoelectronics Physics (BTPH105-18)

Tutorial No. 1

Date of Issue: 18.11.2021

Due date of Submission:25.11.2021

Max marks: 10

Quest No.	Question	CO's RBT Level
1	Calculate the probability that the energy level $E=3KT$ above fermi energy is occupied by an electron at 300K.	CO1, L2, L5
2	Determine the temperature at which there is a one percent probability that an energy state having energy equal to 5.95 eV is empty. Assume that the fermi energy level for the material is 6.25 eV and electron in this material follows fermi dirac distribution.	CO1, L2, L5
3	Calculate the probability that a state in a conduction band is occupied by an electron and also calculate the thermal equilibrium electron concentration in silicon at 300K. Assume the fermi energy is 0.25 eV below the conduction band.	CO1, L2, L5
4	Calculate the thermal equilibrium hole concentration in silicon at 400 K. Assume that fermi energy is 0.27eV above the valence band energy. The value of N for silicon at 300K is $1.04 \times 10^{19} \text{ cm}^{-3}$.	CO1, L2, L5
5	Calculate intrinsic carrier concentration in GaAs at 300K and at 450K. Given, $N_c = 4.7 \times 10^{17} \text{ cm}^{-3}$, $N_v = 7.0 \times 10^{18} \text{ cm}^{-3}$ at 300K. Assume that band gap energy of GaAs is 1.42eV and does not vary with temperature over this range.	CO1, L3, L5
6	Calculate thermal equilibrium temperature of electron and holes for a given fermi energy. Consider Si at $T=300\text{K}$ so that $N_c = 2.8 \times 10^{19} \text{ cm}^{-3}$ and $N_v = 1.04 \times 10^{19} \text{ cm}^{-3}$. Assume that fermi energy is 0.25 eV below conduction band. Given that if band gap energy of Si is 1.12 eV, then fermi energy will 0.087 eV above valence band.	CO1, L3, L5
7	Two semiconductor materials have exactly the same properties except the material A has bandgap energy of 1eV and material B has a bandgap energy of 1.2eV. Determine the ratio of N_i of material A to that of material B for $T=300\text{K}$.	CO1, L4
8	A <i>pn</i> junction employs the following doping levels: $N_a = 10^{16} \text{ cm}^{-3}$ and $N_d = 5 \times 10^{15} \text{ cm}^{-3}$ Determine the hole and electron concentrations on the two sides if $n_i = 1.08 \times 10^{10} \text{ cm}^{-3}$.	CO1, L3, L5
9	Why does a pure semiconductor behave like an insulator at absolute zero temperature?	CO1, L2
10	What is the forbidden energy gap? How does it occur? What is its magnitude for Ge and Si?	CO1, L1

Quest No.	Question	CO's RBT Level
1	For silicon at 300K ,the electron mobility and hole mobility are $0.135 \text{ m}^2\text{V}^{-1}\text{s}^{-1}$ and $0.048 \text{ m}^2\text{V}^{-1}\text{s}^{-1}$. If the intrinsic carrier concentration is $1.49 * 10^{16} \text{ m}^{-3}$,find conductivity of silicon.	CO1, L2, L5
2	A semiconductor has electron density $0.45 * 10^{12} \text{ per m}^{-3}$ and hole density $5 * 10^{20} \text{ per m}^3$.Find its conductivity . Given $\mu_h=0.048$ and $\mu_e =0.135$.	CO1, L2, L5
3	Find the probability of occupancy of electrons in conduction band if the energy of electrons is $E_f +0.026 \text{ eV}$ where E_f is the Fermi energy.	CO1, L2, L5
4	Calculate the position of Fermi level above the top of valence band for an intrinsic semiconductor at 300K. The energy gap of semiconductor is 1.1eV and the ratio of effective mass of holes and electrons is 6.	CO1, L2, L5
5	Calculate the intrinsic carrier concentration and conductivity of pure germanium at 300K as: $M_e^* =m_h^* =9.1 * 10^{-31} \text{ kg}$ $e_g=0.72\text{eV}$ $\mu_e=0.38$ $\mu_h=0.18$	CO1, L3, L5
6	Pure silicon at a temperature of 300K has equal electron and hole density of $1.5 * 10^{16}$.When it is doped with indium , the hole density increases to $4.5 * 10^{22}$. Calculate the number density of electrons in doped silicon.	CO1, L3, L5
7	A p-type semiconductor is obtained by doping indium impurity in germanium lattice in the ratio one atom of indium to $4 * 10^8$ atoms of germanium . At 300K , $n_i =2.5 * 10^{19}$. If the density of germanium atoms is $4.4 * 10^{28}$, find the density of acceptor atoms , density of holed and electorns.	CO1, L5
8	The wavelength of light emitted by a light emitted diode is 600nm . Find its energy gap.	CO1, L5
9	An ideal diode has a reverse saturation current of $25\mu\text{A}$ at a temperature of 127^0c . Find the static and dynamic resistance of the junction of this temperature for a forward bias voltage of 0.2V.	CO1, L3, L5
10	A flat copper strip of width 1.5cm and thickness 0.5cm carries a current of 100A. A magnetic field of 1T is applied perpendicular to the strip. The hall voltage produced is $10\mu\text{V}$. Calculate the number density of charge carriers.	CO1, L3, L5
11	A zener diode has a breakdown voltage of 10V and maximum power dissipation of 0.4W. What is the maximum current that the diode can handle.	CO1, L2, L5

Research based learning

DECLARATION

We hereby certify that the work which is being presented in the report entitled **“UTILIZATION OF IRON SLAG AS A PARTIAL REPLACEMENT OF COARSE AGGREGATES IN CONCRETE”** by Gurdeep Singh, Divanshu, Aamir Usmani, Sanjesh Chhabra, Monu Kumar, Mohit Pandey, Akashdeep Singh in partial fulfillment of requirements for the award of degree of B.Tech. (Civil) submitted to DAV Institute of Engineering & Technology, Jalandhar, Department of Civil Engineering is an authentic record of our own work carried out under the supervision of Dr Sanjay Goel (A.P Dept.of Civil Engg. DAVIET)

Signature of students: Aamir Usmani (1604246) Akashdeep Singh(1604249) Divanshu (1604267)

Gurdeep Singh (1604269) Mohit Pandey (1604276) Monu Kumar (1604277) Sanjesh Chhabra (1604290)

Mohit Pandey

This is to certify that the above statement made by the candidate is correct to the best of my/our knowledge.

Signature of Project Incharge

[Signature]
29/06/2020

Signature of H.O.D.

DECLARATION

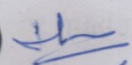
We hereby declare that the project work entitled as **ESTIMATING, COSTING AND TENDERING OF G+3 BUILDING AT DAVIET CAMPUS (Proposed Administration Block) Major Project Report** being submitted to "I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY" is an authentic record of our own work carried out at "DAV Institute Of Engineering and Technology, Jalandhar" during July 2020 to December 2020 for award of degree of B-TECH Civil department under the guidance of "Dr. Sanjay Goel" during 7th Semester. The work presented in this project report has been submitted for the award of any other degree of this institute or any other university.

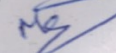
Dated: 25 Jan 2021

Signature:

Akshay Kumar (1704380) Akshay Kumar

Kapil Kohli (1803989) Kapil Kohli

Harmanpreet Singh (1704393) 

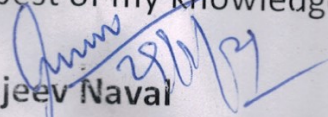
Mansimran Singh (1704406) 

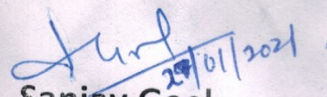
Amritpal Singh (1803982) Amritpal Singh

Hitesh Kumar Marwaha (1803988) Hitesh Kumar Marwaha

Manoj Kumar (1803993) MANOJ KUMAR

This is certified that above statement made by the candidates is correct to the best of my knowledge.

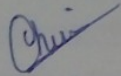
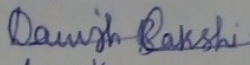
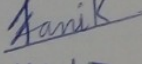
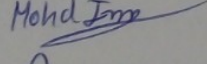
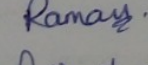
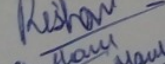
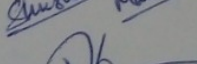
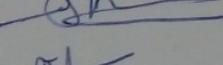
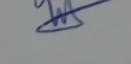

Dr. Sanjeev Naval
(Head. of Civil Engg. Dept.
At D.A.V.I.E.T., Jalandhar)


Dr. Sanjay Goel
(supervising guide)
(Assistant professor in
Civil Engg. Dept. At
D.A.V.I.E.T., Jalandhar)

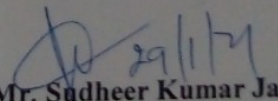
DECLARATION

I hereby declare that the project work, which is being carried out titled "LOAD CARRYING CAPACITY OF GEOGRID REINFORCED GRANULAR MATERIAL OVER SOFT SOILS: NUMERICAL INVESTIGATION" in partial fulfillment of the requirement for the award of degree in Bachelor of Technology submitted to the department of Civil Engineering, DAV INSTITUTE OF ENGINEERING AND TECHNOLOGY, JALANDHAR is authentic record of our own project work carried out under the supervision and guidance of **Mr. Sudheer Kumar Jala (Asst. Professor Civil Deptt.)**. The work presented in this report has not been submitted for the award of any other degree of this institute or any other university.

Signature of Students

Chirag Bhandari	(1704387)	
Danish Bakshi	(1704388)	
Kanik	(1704400)	
Mohd Imran	(1704407)	
Ramandeep	(1704417)	
Rishav Jandial	(1704420)	
Shubham Manhas	(1704430)	
Sunil Kumar Meena	(1704432)	
Tushar Handa	(1704433)	

This is to certify that the above statement made by the candidates is correct to the best of my knowledge.


Mr. Sudheer Kumar Jala

(Project Incharge)

Asst. Professor

Dept. of Civil Engineering

DAVIET, JALANDHAR

REINFORCE THE SOFT SOILS WITH GEOGRID AND ENCASED STONE COLUMNS: NUMERICAL INVESTIGATION

Major Project Report

Submitted in Partial Fulfilment of the Requirement for
the award of Degree of Bachelor of Technology
(2017-2021)

Submitted By:

Antriksh Chander (1803983), Asim Amin (1803984), Dikshant (1803986) Karan (1803990),
Karanveer Dhawan (1803991), Madhav Pahwa (1803992) Prince (1803995), Raghav Pahwa
(1803996), Rahul Bhagat (1803997)

Under the Guidance of

Er. Sudheer Kumar Jala (Assistant Professor)

Department of Civil Engineering



**D.A.V. Institute of Engineering and Technology,
Kabir Nagar, Jalandhar**

Organized a poster making/slogan writing competition on **8th March, 2018** under the CSR initiative taken in **adavitya_2k18** here students presented their slogans on posters made by themselves and depicted the theme of **"Swachh Bharat"**.



Poster making competition

ROLE PLAY COMPETITION ORGANISED ON OCT 11, 2019



Ishaan Vassal grabbed the title for the best role played as “Alternating Current” followed by Smyle Verma, stood second, who played the role of “He-Ne Laser”. Third position was shared by two participants Harshik Kothari and Priyanka who acted the role as “Direct Current” and “Ruby Laser” respectively.

PAPER PRESENTATION COMPETITION ORGANISED ON OCT 4, 2019

Paper Presentation Competition: A SYMPOSIUM ON SCIENCE IN REAL WORLD was organised for B. Tech. first year students by Student Consortium (S)³A: (Students Society for Scientific Advancements) on the topics:

1. Role of Basic Sciences in real world.
2. Mathematics in real world.
3. Environment Issues & Sustainable Technological Development.
4. Ethics and Values- Need and Concern.



Himanshu from B. Tech.-ECE first year grabbed the title for the best presentation on the topic “Role of basic Sciences in real world” followed by Ishaan Vassal & Harshik Kothari from B. Tech.-EE as second best presentation for on the topic “Role of Science in everyday life”. Sandeep Raj from B. Tech.-EE also grabbed second position for his presentation on the topic “Plastic pollution Effects and solutions” followed by Ashish Sharma as third position holder for his presentation on the topic “Maths in real world”.

A DEBATE COMPETITION ORGANISED ON OCT 3, 2019

on the different topics:

1. Foreign Education Is Better Than Indian Education.
2. Mobile Phones Are Beneficial For Students.
3. Celebration of Some Festivals Enhance Environmental Pollution.
4. Spirituality is Living in Another World.
5. Online Lectures are Better than Teacher's Interactive Lectures.




Namit Sachdeva (in favour) and Minal (against the motion) of ECE first year were declared as Best Speakers for the debate competition, followed by Navdeep Singh (ECE) & Mansimrat Kaur (CSE) on the same topic as first runners up and Himanshu-Spirituality is living in another world (favour) Parmanand-Foreign education is better than Indian education as the second runners up.

SCIENCE EXPO ORGANISED ON THE THEME: “Innovating Science and Technology in the service of Society” ON 7th Feb, 2019



Various project models prepared and displayed during competition

Expert lecture organized by the Department of Applied Sciences on 16 March, 2021



DAVIET
ENGINEERING FUTURES
THROUGH INNOVATION
(ISO 9001:2008 CERTIFIED)

**DAV INSTITUTE OF
ENGINEERING & TECHNOLOGY**

Kabir Nagar, Jalandhar, Punjab - 144 008

Accredited by NAAC with "A" Grade & Recognized by UGC under Section 2(f)

Approved by AICTE; Affiliated to IKG-PTU, Jalandhar. Managed by DAV College Managing Committee, New Delhi

Ref. No.: DAVIET/ 2073 Dated: 16/3/2021

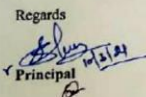
Dr. Sanjay O'Neill Shaw
Deputy Director General of Meteorology
Regional Meteorological Centre, Guwahati.
Ministry of Earth Sciences
Government of India

Subject: Invitation to deliver Expert Lecture for B. Tech. 1st Semester students in National Science Day-2021 Celebrations.

Sir

I feel immense pleasure to invite you to as resource person to deliver an Expert lecture for the students of B.Tech. 1st semester on 16/03/2021 (Tuesday) at 12.00 noon (online). I believe that your expertise and skills will enable our students to upgrade and enrich their knowledge.

Honorarium will be paid as per the institute norms.

Regards

Principal

Website : www.davietjalandhar.org
Email : daviet@davietjalandhar.org

Ph : 0183-2207650, 2200232, 2343400
Toll Free : 1800-180-0126



Role of Science and Technology in Weather Forecasting

Dr. SANJAY O'NEILL SHAW
Scientist-E
Regional Meteorological Centre
L.G.B.I. Airport, Guwahati
भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

Types of Weather Forecasts



Participants

Type a name

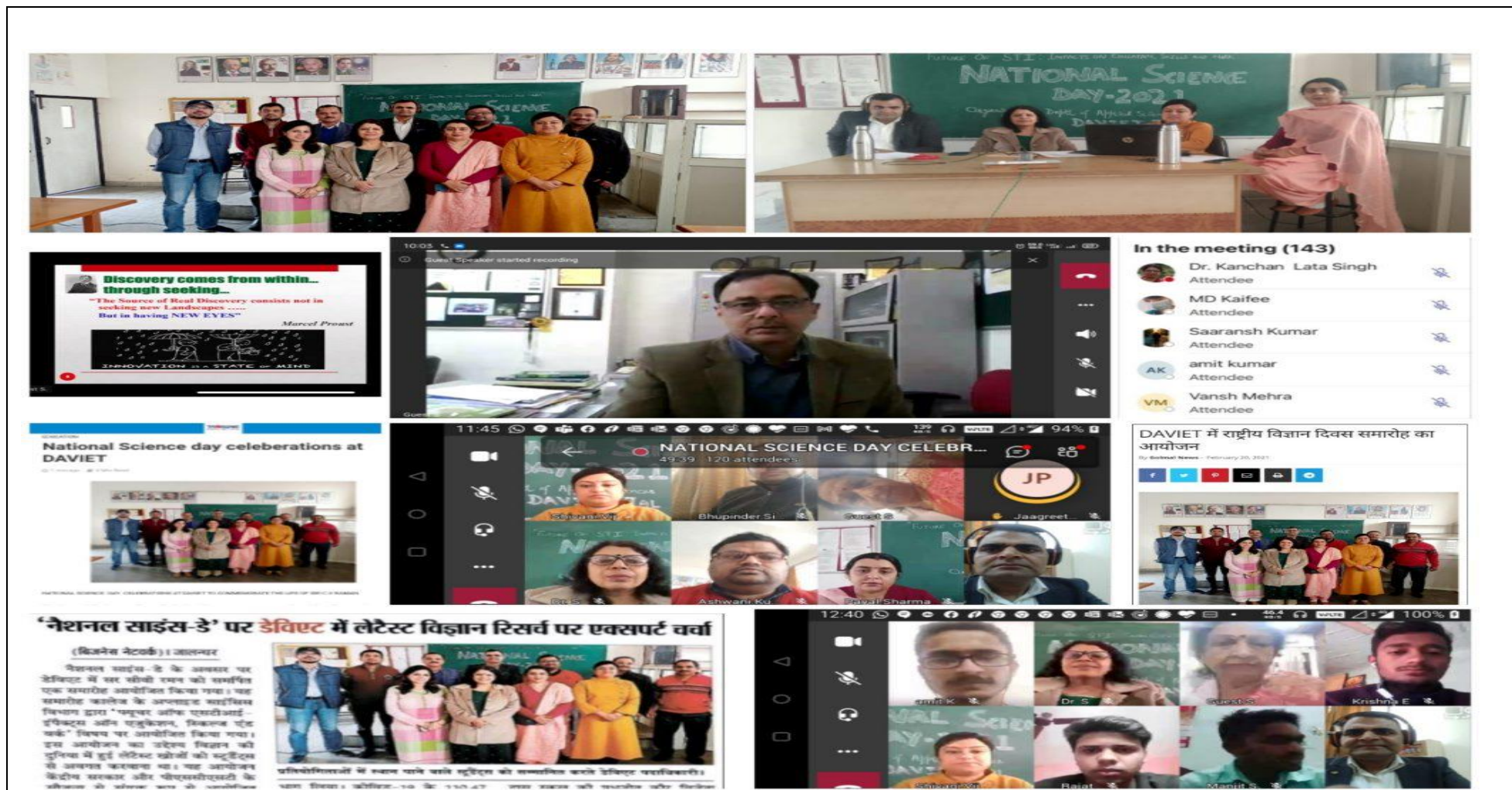
Share invite

- Presenters (0)
- Mute all
- Pyral Sharma
- Dr. Kanchan Lata Singh
- Guest Speaker
- Shivani VJ
- Attendees (40)
- Ajay Kumar prasad
- anil kumar
- Archi

YK Y VK TS SY NS PK JF AK PB KK TS SY

Activate Windows

An expert talk by Prof. Neeraj Dilbaghi, Professor of Nanobiotechnology, Guru Jambheshwar University of Science and Technology, Hisar was organized on the topic "Science, Technology and Innovation for Sustainable Development during and Post Covid" on **19th FEBRUARY, 2021**



Dainik Bhaskar

डेविएट के प्रांशु को मिला बेस्ट स्टूडेंट का अवॉर्ड



जगद्वारा इंडियन सोसायटी फोर टेक्निकल एजुकेशन की ओर से गुरु नानक देव इंजीनियरिंग कॉलेज लुधियाना में स्टूडेंट कन्वेंशन करवाई गई। पंजाब, जम्मू एंड कश्मीर, हरियाणा,

हिमाचल प्रदेश राजन के स्टूडेंट्स इसमें शामिल हुए। डेविएट के प्रांशु नागपाल को बेस्ट स्टूडेंट अवॉर्ड दिया गया। उसने एमरजिंग टेइस इन इंजीनियरिंग पर प्रेजेंटेशन दी। प्रि. डॉ. मनोज कुमार, डीन एकेडेमिक्स डॉ. सुधीर शर्मा, डिप्टी डीन एकेडेमिक्स रमनदीप सिंह जौहल ने उसे सम्मानित किया।

Mr. Pranshu Nagpal, awarded as best student from ISTE, 2019

24-10-2019

Dainik Jagran

25-10-2019

यूथ फेस्टिवल के दूसरे दिन डेविएट की टीम ने 14 इवेंट में से 11 में प्रथम स्थान पाया

जयपुर, राजस्थान, भारत में आयोजित 'यूथ फेस्टिवल' के दूसरे दिन डेविएट की टीम ने 14 इवेंट में से 11 में प्रथम स्थान पाया। डेविएट की टीम ने 14 इवेंट में से 11 में प्रथम स्थान पाया। डेविएट की टीम ने 14 इवेंट में से 11 में प्रथम स्थान पाया।



डेविएट की टीम ने 'यूथ फेस्टिवल' में प्रथम स्थान पाया।



डेविएट की टीम ने 'यूथ फेस्टिवल' में प्रथम स्थान पाया।

- डेविएट की टीम ने 'यूथ फेस्टिवल' में प्रथम स्थान पाया।
- डेविएट की टीम ने 'यूथ फेस्टिवल' में प्रथम स्थान पाया।
- डेविएट की टीम ने 'यूथ फेस्टिवल' में प्रथम स्थान पाया।
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- डेविएट की टीम ने 'यूथ फेस्टिवल' में प्रथम स्थान पाया।
- डेविएट की टीम ने 'यूथ फेस्टिवल' में प्रथम स्थान पाया।
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- डेविएट की टीम ने 'यूथ फेस्टिवल' में प्रथम स्थान पाया।
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- डेविएट की टीम ने 'यूथ फेस्टिवल' में प्रथम स्थान पाया।

DAVIET students got 14 first prizes in IKG PTU cultural fest - 2019



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
LOVISH KUMAR KAMRA
for successfully completing the course
Digital Circuits

with a consolidated score of **63** %

Online Assignments	22.06/25	Proctored Exam	40.5/75
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Total number of candidates certified in this course: **2864**

Jul-Oct 2019
(12 week course)

A. Goswami

Prof. Adrijit Goswami
Dean, Continuing Education & NPTEL Coordinator
IIT Kharagpur



Indian Institute of Technology Kharagpur

Roll No: NPTEL19EE51S41510131



To validate and check scores: <https://nptel.ac.in/>

One student Prabhjot Kaur from ECE first year grabbed third position in power point presentation competition through her presentation on the topic “Physics in Space” on 13th Oct, 2020 at HMV, Jalandhar under the guidance of Dr. Shivani Vij, Assistant Professor



NATIONAL VOTERS' DAY- 2020

OFFICE OF DEPUTY COMMISSIONER-CUM-DISTRICT ELECTION OFFICER, JALANDHAR

In collaboration with

HANS RAJ MAHILA MAHA VIDYALAYA JALANDHAR



JANUARY 25, 2020



Appreciation Certificate

This is to certify that Mr./Mrs./Ms. Kirti Narang participated in
Declamation Contest/ Essay Writing/ Slogan Writing/ Poster Making/ Rangoli/ Nukkad Natak Competition
held on 18 Jan, 2020 Distinction 2nd


Varinder Kumar Sharma, IAS
Deputy Commissioner-cum
District Election Officer
Jalandhar


Kulwant Singh, IAS
Addl. Deputy Commissioner (Dev.) cum
Addl. District Election Officer
Jalandhar


Manjit Singh
Tehsildar (Elections)
Jalandhar


Prof. Dr. (Mrs.) Ajay Sareen
Principal, Hans Raj Mahila Maha Vidyalaya
Jalandhar



DAVIET students honoured by Deputy commissioner of Jalandhar for declamation contest - 2020

A Study of Consumer's Attitude towards Mobile Marketing

Suman Tandon¹, Deepti Kakkar², Parveen Kakkar³, Randeep Kaur⁴

Associate Professor(MBA), DAVIET Jalandhar, standon7708@gmail.com¹

Assistant Professor (ECE), NIT Jalandhar,kakkard@nitj.ac.in²

Assistant Professor (CSE), DAVIET Jalandhar.parveenk@davietjal.org³

Student (MBA), DAVIET Jalandhar,⁴

Abstract:

The tremendous growth of smart phones has opened door of opportunities for marketers to market their product and services easily through mobile phones. Consumers are attracted towards the mobile marketing as enhancement of usage of smart phones. They are more conscious about knowing all the trends and technology and accepting them in their daily lives. This is due to the reason that they get to know about each product and services on their phones via SMSs, emails, various apps, etc. This paper shows a study employs to analyse the relationship between demographic factors on the mobile marketing. For the study, authors collected the data using a structured questionnaire. The study involved 102 respondents of various age group, gender and different qualification in order to have a unbiased evaluation. The study aims to evaluate the mobile marketing impact based on the determined factors analysis. During this study, it is observed consumers have positive attitude towards mobile marketing but companies should focus on improving strategies.

Keywords: Mobile Marketing, Smart Phones, Technology.

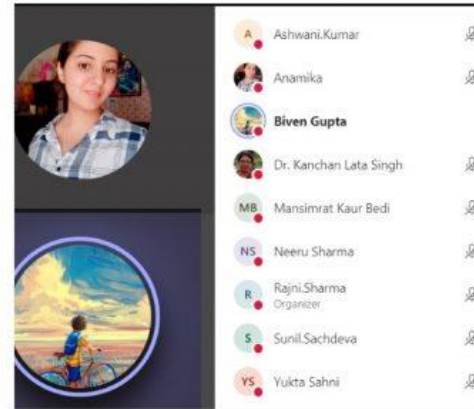
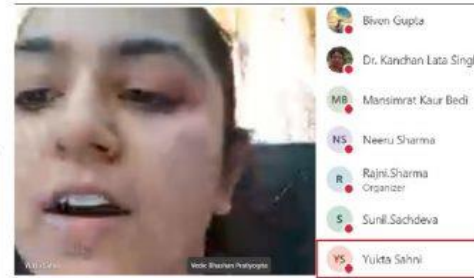
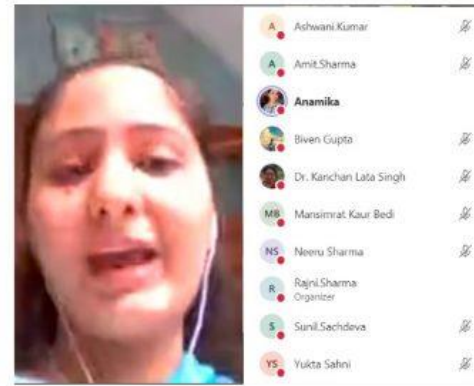
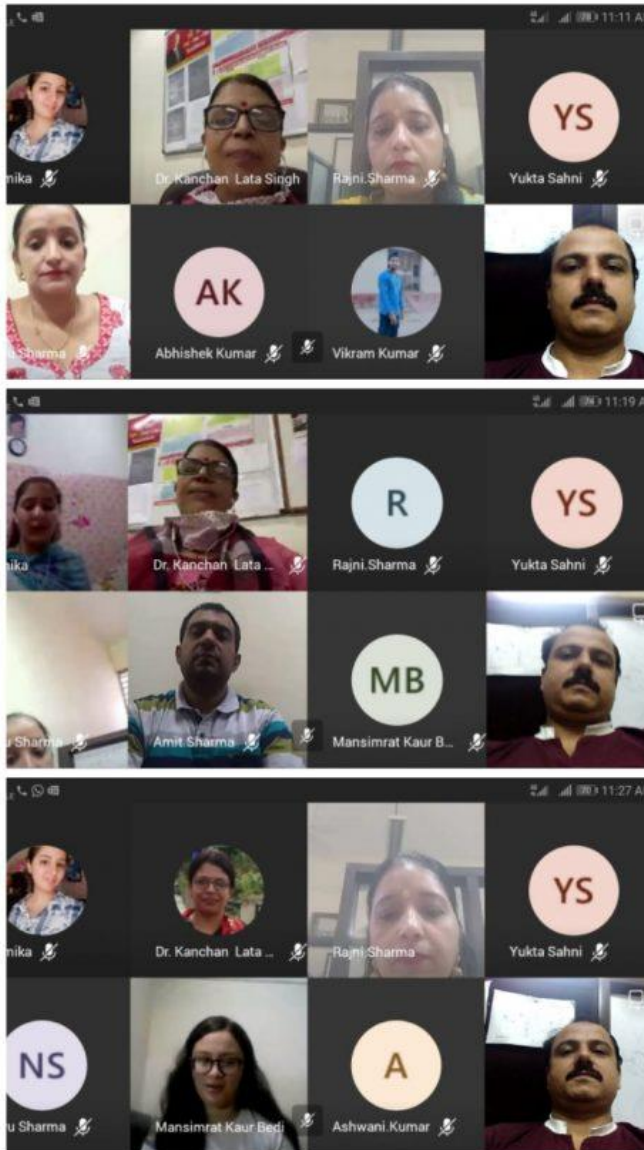
1. Introduction

In today's world, technology influences our culture more than ever. Marketers have noticed for this trend and have move on to more techniques. Focusing a message on the individual customer is replacing the more impersonal, mass messaging techniques. They are playing a vital role in our lives. Today, maximum people are using mobile phones or can say android mobile phones. Mobile marketing begins with the mobile internet service. Mobile marketing is a way of marketing through wireless networks. It refers to the process of marketing when done through mobile phones. As defined by Andreas, Mobile Marketing is "any marketing activity conducted through an established network to which consumers are constantly connected using a personal mobile device." Mobile marketing is a marketing approach that sees brands and businesses using a variety of techniques to promote their business, brand, product or service directly to mobile users. We have also shifted from using mobile phones with a limited set of features, to using smart phones that themselves are capable of more with each update, now also complemented by the addition of tablet devices, and smart watches. But as the technology has developed, and the reach and use of mobile phones has grown. The figure 1 shows the graphical



Paper Presentation by student in International Conference

VEDIC BHASHAN PRATIYOGITA ORGANISED AT DAVIET (SPEECH COMPETITION) on 20 Aug, 2020



ਡੇਵਿਅਟ ਕਾਲਜ ਵਿਖੇ ਵਿੱਤੀ ਸਾਖਰਤਾ 'ਤੇ ਵੈਬੀਨਾਰ ਦਾ ਆਯੋਜਨ

ਜਲੰਧਰ • ਰਮੇਸ਼ ਭਗਤ
ਡੇਵਿਅਟ ਕਾਲਜ ਦੇ ਵਪਾਰ ਪ੍ਰਬੰਧਨ ਵਿਭਾਗ ਨੇ 20 ਮਈ, 2021 ਨੂੰ ਐਮਬੀਏ, ਬੀਬੀਏ ਅਤੇ ਬੀ.ਕਾਮ

ਅਤੇ ਮਿਊੱਚਲ ਫੰਡਾਂ ਆਦਿ ਬਾਰੇ ਆਪਣੀ ਯੋਗਤਾਵਾਂ ਅਤੇ ਕਮੀਆਂ ਦੇ ਨਾਲ ਵਿਸਥਾਰ ਨਾਲ ਵਿਚਾਰ ਵਟਾਂਦਰੇ ਕੀਤੇ. ਉਸਨੇ ਇਨ੍ਹਾਂ ਵਿਕਲਪਾਂ ਜਿਵੇਂ ਕਿ



ਆਨਲਾਈਨ ਅਤੇ ਆਫਲਾਈਨ ਵਪਾਰ, ਸਿੱਧੇ ਅਤੇ ਨਿਯਮਤ ਨਿਵੇਸ਼ ਵਿਕਲਪਾਂ ਵਿੱਚ ਨਿਵੇਸ਼ ਕਰਨ ਦੇ ਵੱਖ ਵੱਖ ਗਾਂ ਅਤੇ ਵਿਧੀ ਬਾਰੇ ਵਿਸਥਾਰ ਨਾਲ

(ਆਨਰਜ) ਦੇ ਵਿਦਿਆਰਥੀਆਂ ਲਈ ਪ੍ਰਿੰਸੀਪਲ ਡਾ ਮਨੋਜ ਕੁਮਾਰ ਦੀ ਅਗਵਾਈ ਹੇਠ ਵਿੱਤੀ ਸਾਖਰਤਾ ਵਿਸ਼ੇ ਤੇ ਮਾਹਰ ਗੱਲਬਾਤ ਦਾ ਆਯੋਜਨ ਕੀਤਾ। ਐਚਓਡੀ ਡਾ ਅਨਿਲ ਸੋਨੀ ਦੀ ਯੋਗ ਅਗਵਾਈ ਡਾ. ਮੁਨੀਸ ਨਾਗਪਾਲ, ਡਾਇਰੈਕਟਰ ਮੈਂਟਾ ਸਕਿਲਸ ਐਕਸਟੈਂਸ਼ਨ ਲੈਕਚਰ ਦਾ ਈ-ਸਰੋਤ ਵਿਅਕਤੀ ਸੀ। ਮਾਹਰ ਭਾਸ਼ਣ ਦਾ ਮੁੱਖ ਉਦੇਸ਼ ਵਿਦਿਆਰਥੀਆਂ ਵਿੱਚ ਵਿੱਤੀ ਸਾਖਰਤਾ ਦੇ ਪੱਧਰ ਨੂੰ ਵਧਾਉਣਾ ਹੈ. ਡਾ ਮੁਨੀਸ ਨਾਗਪਾਲ ਨੇ ਵਿੱਤੀ ਸਾਖਰਤਾ ਦੀ ਪਛਾਣ ਅਤੇ ਮਹੱਤਤਾ ਨਾਲ ਵਿਸ਼ਾ ਸੂਰੂ ਕੀਤਾ. ਉਸਨੇ ਕਈ ਗੁਣਵ ਨਿਵੇਸ਼ ਵਿਕਲਪਾਂ ਜਿਵੇਂ ਫਿਕਸਡ ਡਿਪਾਜਿਟ, ਪਬਲਿਕ ਪ੍ਰੋਵੀਡੈਂਟ ਫੰਡ, ਪੂੰਜੀ ਬਾਜ਼ਾਰ ਦੇ ਸਾਧਨ ਅਤੇ ਪੇਸ਼ ਦੀ ਮਾਰਕੀਟ ਦੇ ਸਾਧਨ

ਦੱਸਿਆ. ਸਰੋਤ ਵਿਅਕਤੀ ਨੇ ਵਿੱਤੀ ਸਾਖਰਤਾ ਦੇ ਪੱਧਰ ਨੂੰ ਉੱਚਾ ਚੁੱਕਣ ਲਈ ਸਿਕਿਓਰਟੀ ਐਕਸਚੇਂਜ ਬੋਰਡ ਆਫ ਇੰਡੀਆ, ਰਿਜ਼ਰਵ ਬੈਂਕ ਆਫ ਇੰਡੀਆ ਅਤੇ ਹੋਰ ਸੰਸਥਾਵਾਂ ਦੁਆਰਾ ਚੁੱਕੇ ਗਏ ਕਦਮਾਂ ਦੀ ਵੀ ਵਿਆਖਿਆ ਕੀਤੀ ਹੈ. ਉਸਨੇ ਨਿਵੇਸ਼ ਕਰਦੇ ਸਮੇਂ ਕੀਤੀ ਜਾਣ ਵਾਲੀਆਂ ਸਾਵਧਾਨੀਆਂ ਬਾਰੇ ਵਿਚਾਰ ਵਟਾਂਦਰੇ ਕੀਤੇ ਹਨ. ਪੰਨਵਾਦ ਦਾ ਰਸਮੀ ਮਤ ਸਮਾਗਮ ਦੇ ਕਨਵੀਨਰ ਡਾ. ਸੁਮਨ ਟੰਡਨ ਦੁਆਰਾ ਦਿੱਤਾ ਗਿਆ। ਪ੍ਰਿੰਸੀਪਲ ਡਾ: ਮਨੋਜ ਕੁਮਾਰ ਨੇ ਵਿਭਾਗ ਨੂੰ ਸਮਾਗਮ ਦੀ ਸਫਲਤਾ ਲਈ ਵਧਾਈ ਦਿੱਤੀ ਹੈ। ਗੱਲਬਾਤ ਵਿਦਿਆਰਥੀਆਂ ਲਈ ਬਹੁਤ ਜਾਣਕਾਰੀ ਭਰਪੂਰ ਅਤੇ ਇੰਟਰਐਕਟਿਵ ਹੋ ਗਈ।




DAV Institute of Engineering & Technology


Department of Electrical Engineering


Sr. No: DAVIET/EE/2021/OT-023

Certificate

This is to certify that *Mr. / Ms. Rahul Karir* of B.Tech EE 2nd year has attended 60 Hours Organizational Training on “Basics of MATLAB/ eTAP/ PSCAD/ Power World Simulator” from 5th April, 2021 to 29th May, 2021 in virtual mode at DAV Institute of Engineering & Technology, Jalandhar.


Er. Mani Bansal
Industrial Coordinator


Dr. Sudhir Sharma
HoD


Dr. Manoj Kumar
Principal

Introduction to Data Studio

Certificate of Completion

Gaurav Thakur

Awarded for successfully completing
the course "Introduction to Data Studio"



Certificate expires June 5, 2024

JS
ACADEMY

CERTIFICATE
OF COMPLETION

PROUDLY PRESENTED TO
Gaurav Thakur

FOR COMPLETING THE **5-DAY WORKSHOP** ON
Creating Effective Dashboards

	Conducted By Mr. Jatan Shah Microsoft Certified Trainer Founder & CEO, JS Academy	Duration 1st to 6th June, 2021
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learn.jatanshah.in

Expert lectures (pics)



Department of Civil Engineering events with association of ASCE

DAVIET Engineering Education Through Innovations

ASCE INDIA SECTION NORTHERN REGION

American Society of Civil Engineers Student Chapter
DAV Institute of Engg. & Technology, Jalandhar
In Association with ASCE IS (NR)

Organises

WEBINAR
On
"Energy Conservation, Energy Efficiency, Use of Renewable Energy, Environment, Climate Change etc."

August 18, 2021 | 11 AM to 1.30 PM

Resource Person

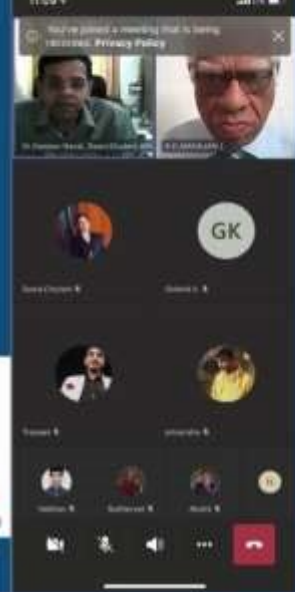
Mr. K.K. MAHAJAN
Ex. Senior Executive of Tata Chemicals Ltd, Gujarat
DCW Limited, Gujarat and
SBL Chemical Complex, Rapra (Ph) and Delhi.

Dr. Manoj Kumar
Chief Patron
Principal, DAVIET

Dr. Har Anand Singh Sandhu
Patron
President, ASCE IS (NR)

Dr. Sudhir Sharma
Dean Academics &
Head, Electrical Engg.

Mr. Gobind Khurana
Coordinator
Asst. Prof. CE



ਕੂੜੇ ਸੰਭਾਲੀ ਵਰਕਸ਼ਾਪ 'ਚ ਪੁੱਜੇ ਸਿਰ.ਫ ਅੱਧੀ ਦਰਜਨ ਕੌਂਸਲਰ

ਜਲੰਧਰ, 21 ਸਤੰਬਰ (ਸ਼ਿਵ ਸ਼ਰਮਾ)- ਕੂੜੇ ਨੂੰ ਸੁੱਟਣ ਤੇ ਉਸ ਨੂੰ ਤਰੀਕੇ ਨਾਲ ਡੱਬਿਆਂ 'ਚ ਪਾਉਣ ਬਾਰੇ ਹੋਈ ਵਰਕਸ਼ਾਪ 'ਚ ਅੱਧੀ ਦਰਜਨ ਦੇ ਕਰੀਬ ਕੌਂਸਲਰ ਹੀ ਪੁੱਜ ਸਕੇ। ਵਰਕਸ਼ਾਪ ਨਿਗਮ ਪ੍ਰਸ਼ਾਸਨ ਵਲੋਂ ਕਰਵਾਈ ਗਈ ਸੀ। ਨਿਗਮ ਵਲੋਂ ਇਕ ਸਿੱਖਿਆ ਇਸਟੀਚਿਊਟ 'ਚ ਕਰਵਾਈ ਗਈ ਵਰਕਸ਼ਾਪ 'ਚ ਸ਼ਾਮਲ ਹੋਣ ਲਈ ਵੀਰਵਾਰ ਨੂੰ ਨਿਗਮ ਦੇ ਸਟਾਫ਼ ਅਤੇ ਕੌਂਸਲਰਾਂ ਨੂੰ ਫੋਨ 'ਤੇ ਆਉਣ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦਿੱਤੀ ਗਈ। ਸ਼ਹਿਰ 'ਚ ਇਸ ਵੇਲੇ ਕੂੜੇ ਦੀ ਸਮੱਸਿਆ ਕਾਫ਼ੀ ਗੰਭੀਰ ਹੈ। ਵਰਕਸ਼ਾਪ 'ਚ ਜਗਦੀਸ਼ ਸਮਰਾਏ, ਡਾ: ਜਸਲੀਨ ਸੇਠੀ ਤੇ ਬਲਜੀਤ ਸਿੰਘ ਪ੍ਰਿੰਸ ਕੌਂਸਲਰ ਸ਼ਾਮਲ ਸਨ। ਵਰਕਸ਼ਾਪ 'ਚ ਸਾਰੇ ਕੌਂਸਲਰਾਂ ਅਤੇ ਨਿਗਮ ਦੇ ਅਫ਼ਸਰਾਂ ਅਤੇ ਸਟਾਫ਼ ਨੂੰ ਸੱਦਿਆ ਗਿਆ ਸੀ। ਵਰਕਸ਼ਾਪ 'ਚ ਕੌਂਸਲਰਾਂ ਦੇ ਵੱਡੀ ਗਿਣਤੀ 'ਚ ਨਾ ਪੁੱਜਣ 'ਤੇ ਜਿਥੇ ਕਈਆਂ ਦੇ ਚਿਹਰੇ ਲਟਕੇ ਸਨ, ਪਰ ਕਈ ਕੌਂਸਲਰਾਂ ਦਾ ਕਹਿਣਾ ਸੀ ਕਿ ਵਰਕਸ਼ਾਪ 'ਚ ਮਾਹਿਰਾਂ ਨੇ ਵਧੀਆ ਜਾਣਕਾਰੀ ਦਿੱਤੀ ਕਿ ਸੁੱਕੇ ਅਤੇ ਗਿੱਲੇ ਕੂੜੇ ਨੂੰ ਅਲੱਗ-ਅਲੱਗ ਡੱਬਿਆਂ 'ਚ ਪਾਇਆ ਜਾਵੇ ਪਰ ਨਿਗਮ ਪ੍ਰਸ਼ਾਸਨ ਨੇ ਕੁਝ ਸਮਾਂ ਪਹਿਲਾਂ ਦੇ ਦੋ ਰੋਗ ਦੇ ਅਲੱਗ-ਅਲੱਗ ਡੱਬੇ ਵੰਡੇ ਸੀ, ਪਰ ਬਾਅਦ 'ਚ ਇਹ ਯੋਜਨਾ ਸਿਰੇ



ਕੂੜੇ ਦੀ ਸਮੱਸਿਆ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦਿੰਦੇ ਹੋਏ ਕਮਿਸ਼ਨਰ ਦੀਪਰਵਾ ਲਾਕੜਾ। (ਸੱਜੇ) ਵਰਕਸ਼ਾਪ ਦੀ ਸ਼ੁਰੂਆਤ ਕਰਦੇ ਹੋਏ ਡਾ: ਜਸਲੀਨ ਸੇਠੀ ਤੇ ਨਾਲ ਕਮਿਸ਼ਨਰ ਦੀਪਰਵਾ ਲਾਕੜਾ, ਪ੍ਰਿੰਸੀਪਲ ਮਨਜ਼ ਕੁਮਾਰ, ਐਸ. ਈ. ਅਸ਼ਵਨੀ ਚੌਧਰੀ ਤੇ ਹੋਰ।

ਤਸਵੀਰਾਂ : ਮੁਨੀਸ਼

ਨਹੀਂ ਚੜ੍ਹ ਸਕੀ। ਕੌਂਸਲਰ ਜਗਦੀਸ਼ ਸਮਰਾਏ ਦਾ ਕਹਿਣਾ ਸੀ ਕਿ ਜੇਕਰ ਲੋਕ ਦੇ ਡੱਬਿਆਂ 'ਚ ਸੁੱਕਾ ਅਤੇ ਗਿੱਲਾ ਕੂੜਾ ਪਾਉਣਗੇ ਤਾਂ ਇਸ ਲਈ ਟਰੱਕ ਵੀ ਅਲੱਗ-ਅਲੱਗ ਹੋਣੇ ਚਾਹੀਦੇ ਹਨ। ਵਰਕਸ਼ਾਪ 'ਚ ਨਿਗਮ ਦੇ ਕਮਿਸ਼ਨਰ ਸ੍ਰੀ ਦੀਪਰਵਾ ਲਾਕੜਾ ਹਾਜ਼ਰ ਸਨ ਤੇ ਕਈ ਮਾਹਿਰਾਂ ਨੇ ਵਰਕਸ਼ਾਪ 'ਚ ਹਾਜ਼ਰ ਲੋਕਾਂ ਨੂੰ ਕੂੜਾ ਸੁੱਟਣ ਤੋਂ ਲੈ ਕੇ ਗਿੱਲੇ ਕੂੜੇ ਦੀ ਖਾਦ ਬਣਾਉਣ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦਿੱਤੀ। ਇਸ ਬਾਰੇ ਕਈ ਰਾਜਾਂ 'ਚ ਚਲਦੇ ਪ੍ਰਾਜੈਕਟਾਂ ਬਾਰੇ ਵੀ ਜਾਣਕਾਰੀ ਦਿੱਤੀ। ਨਗਰ ਨਿਗਮ ਦੇ ਕਮਿਸ਼ਨਰ ਸ੍ਰੀ ਲਾਕੜਾ ਨੇ ਨਕਦਰ ਤੋਂ ਦਿਲਵਾ ਹੋਰ ਥਾਵਾਂ 'ਤੇ ਚੱਲ ਰਹੇ ਕੂੜੇ ਦੇ ਪ੍ਰਾਜੈਕਟਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦਿੱਤੀ। 2 ਸਾਲ ਪਹਿਲਾਂ ਜਿੰਦਲ ਕੰਪਨੀ ਨੇ ਕੂੜਾ ਸੰਭਾਲ ਪ੍ਰਾਜੈਕਟ ਦਾ ਕੰਮ ਡੱਬ ਦਿੱਤਾ ਸੀ ਕਿਉਂਕਿ ਨਿਗਮ ਨੇ ਉਸ ਨੂੰ ਸਹਿਯੋਗ ਨਹੀਂ ਦਿੱਤਾ ਸੀ। ਕੰਪਨੀ ਬਾਰੇ-ਬਾਰੀ ਕੂੜਾ ਚੁੱਕਣ ਦਾ ਕੰਮ ਸਫਲਤਾਪੂਰਵਕ ਕੀਤਾ ਸੀ, ਪਰ ਨਿਗਮ ਪ੍ਰਸ਼ਾਸਨ ਉਸ ਨੂੰ ਪਲਾਟ ਲਗਾਉਣ ਲਈ ਜਗ੍ਹਾ ਨਹੀਂ ਦਿੱਤੀ ਸੀ। ਉੱਚ ਨਿਗਮ ਕਮਿਸ਼ਨਰ ਦੀਪਰਵਾ ਲਾਕੜਾ ਨੇ ਸ਼ਹਿਰ 'ਚ ਕੂੜੇ ਦੀ ਸਮੱਸਿਆ ਬਾਰੇ ਵਿਸਥਾਰ ਨਾਲ ਚਾਣਣਾ ਪਾਇਆ।

ਫੈਕਟਰੀ 'ਤੇ ਕਬਜ਼ਾ

ਰਾष्ट्रीय रेल एवं परिवहन संस्थान
(विश्वविद्यालय स्तर की मान्यता)
एन.ए.डी.आर. परिसर, लालबाग, बडोदरा-390004 (महाराष्ट्र)

संकाय पढ़ीं की मतीं हेतु सूचना
तिथि: 20/09/2018

विज्ञापन संख्या एन.ए.डी.आर. / 02/2018 (सौधी मतीं)

राष्ट्रीय रेल एवं परिवहन संस्थान (एन.ए.डी.आर.) भारत का पहला विश्वविद्यालय है, जो विशेष रूप से परिवहन के क्षेत्र में बहुआयामी शिक्षा, अनुसंधान एवं प्रशिक्षण को केंद्र में रखकर 2018 में बडोदरा, गुजरात में स्थापित किया गया है। इसकी स्थापना युवा विद्यार्थियों को उच्च गुणवत्तापूर्ण शिक्षा प्रदान करने, एवं परिवहन क्षेत्र की मुख्य समस्याओं का समाधान करने के लिए सम्बन्धित अनुसंधान अभियान चलाते के लिये भारत का प्रमुख संस्थान बनाने के उद्देश्य से की गई है।

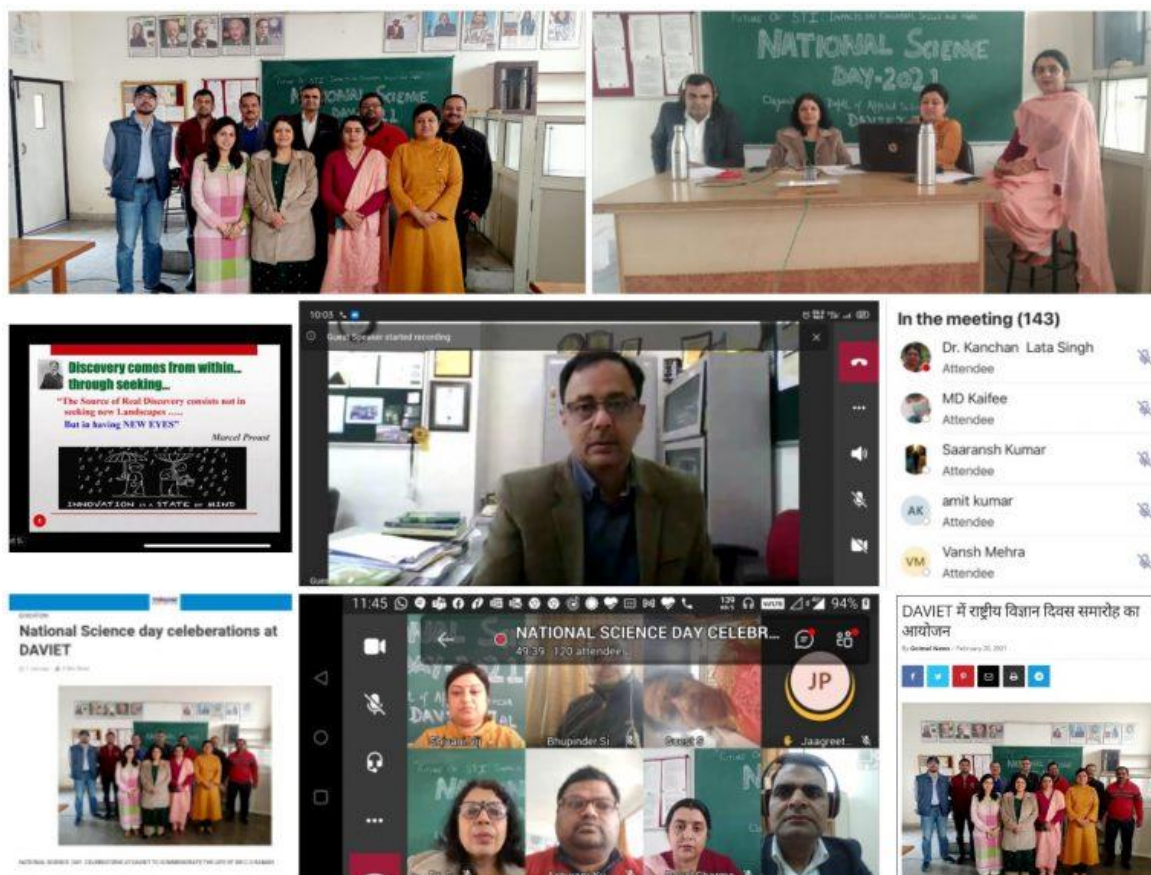
NATIONAL LEVEL WORKSHOP CUM PAPER PRESENTATION COMPETITION 5th June, 2021

“National Level Workshop cum Paper Presentation Competition” through online mode, has been organized by the Department of Applied Sciences, for celebrating “World Environment Day” on the topics:

- 1) How to reduce Carbon Footprints: Need, Causes, Challenges and our Role & Responsibilities?
- 2) COVID 19 Pandemic: Causes, Preventions, Effects, Remedies and our Role & Responsibilities to fight against it.



STUDENTS PARTICIPATED IN DECLAMATION AND ROLE PLAY ON SCIENCE DAY ON FEBRUARY 19, 2021



Declamation on the topic “Future of STI: Impacts on Education, Skills and Work” was won by Prabhjot Repal, from Swami Sant Das Public School, Phagwara while the first runners-up was Manmeet Kaur from DAVIET. The second Runners up in the event were Ruchika and Kamini. In Poster making the first prize was bagged by Pritika, from Swami Sant Das Public School while the second prize was won by Bhawna from DAVIET. The third position was bagged jointly by Prabhnoor Kaur from Swami Sant Das Public School and Kishpreet Kaur from DAVIET. In Role Play, the first position was won by Navreet kaur from DAVIET while the second position was bagged by Manviya Sahni from swami sant Das Public School.

Yug Marg
20-07-2021

**DAVIET students
selected in Whitehat Jr.
learning programme**



JALANDHAR: The 8 students from various departments of DAVIET were selected for Whitehat Jr. who will work for the company and pursue their degree simultaneously. The selected students Neha Sareen, Parmeet Kaur, Shreya Arora, Pawni, Shubhangi, Muskan Jain, Sakshi Sadana and Nisakshi Ayn. Vishav Kapoor, Manager (Industry Interface) - Department of Training and Placement along with Ratish Bhardwaj and Kalpana Sharma appreciated the hard work put in by students. Dr. Manoj Kumar, Principal DAVIET congratulated the students and highlighted that DAVIETians have always been passionate about placements and special efforts are done to make them industry ready.

**पंजाब
केसरी**

MON, 02 AUGUST 2021

EDITION: JALANDHAR KESARI, PAGE NO. 6

दीपक के 'जय भारत एग्रीटेक' बिजनेस आइडिया ने पाया पहला स्थान

जालंधर, 1 अगस्त (विनीत): डी. ए. वी. इंस्टीच्यूट ऑफ इंजीनियरिंग एंड टेक्नोलॉजी, कबीर नगर ने माईक्रो, स्माल एंड मीडियम एंटरप्राइजज, एम.एस.एम.ई. मंत्रालय, भारत सरकार व चंडीगढ़

एजल्स नेटवर्क के सहयोग से बिजनेस स्टार्ट-अप इन्वेस्टर्स मीट का आयोजन किया गया, जिसमें विभिन्न संस्थानों के विद्यार्थियों ने 255 के लगभग बिजनेस आइडिया प्रस्तुत किए।

पैनलिस्ट व निवेशकों के निर्णयानुसार दीपक के 'जय भारत



विजेताओं को पुरस्कृत करते प्रिं. मनोज कुमार।

एग्रीटेक' बिजनेस आइडिया ने पहला स्थान पाया, जबकि स्मृद्ध खन्ना के 'मैगाजो' आइडिया ने दूसरा व शांभवी के 'सीविएस साल्यूशन्स' के आइडिया ने तीसरा स्थान हासिल किया। विजेताओं को प्रिंसिपल मनोज कुमार ने पुरस्कृत किया।

डेविएट में मशीन लर्निंग प्लेटफॉर्म पर करवाया सैमीनार



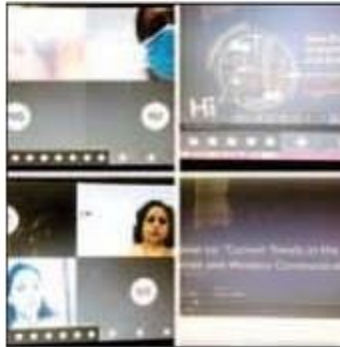
विद्यार्थियों को संबोधित करते हुए एकांत पुरी।

जालंधर, 3 जनवरी (डोगरा) : उन्होंने यह भी चर्चा की कि क्लाउड डेविएट में मशीन लर्निंग प्लेटफॉर्म पर सैमीनार करवाया गया, जिसमें मशीन लर्निंग और आर्टिफिशियल इंटेलीजेंस में अलग-अलग एप्लीकेशन के बारे में जानकारी दी। आई.टी. विभाग के इंचार्ज डा. दिनेश कुमार ने विद्यार्थियों को गूगल मशीन सप्लाइ के मॉडल की सिखलाई कैसे की जाती है, इसके बारे में बताया। गूगल द्वारा क्लाउड सोर्स से एकांत पुरी ने मशीन लर्निंग और आर्टिफिशियल इंटेलीजेंस में विभिन्न एप्लीकेशन और डोमेन क्षेत्रों पर चर्चा की। उन्होंने छात्रों को बताया कि कैसे गूगल मशीन सीखने के मॉडल को प्रशिक्षित किया जाए। उन्होंने यह भी चर्चा की कि क्लाउड सोर्स का उपयोग करके एक एप्लीकेशन, जो सभी को गूगल उत्पादों में योगदान करने में सक्षम बनाता है, एप्लीकेशन क्लाउड सोर्स का उपयोग करके प्रशिक्षण मशीन लर्निंग मॉडल कैसे काम करता है, यह जानने के लिए एक प्रैक्टिस प्रदान करता है और कैसे छात्रों को इसकी पहुंच मिलेगी। मशीन लर्निंग और आर्टिफिशियल इंटेलीजेंस पर बुनियादी प्रशिक्षण से स्थानीय समुदायों को गूगल के समर्थन का नेतृत्व करने का अवसर मिलेगा। कालेज के प्रिंसिपल डा. मनोज कुमार ने सूचना और प्रौद्योगिकी विभाग द्वारा किए गए प्रयास की सराहना की।

Yug Marg

20-07-2020

Webinar on 'Current Trends in Internet and Wireless Communication Technologies' held at DAVIET



JALANDHAR: Department of Computer Science and Engineering, DAVIET under the guidance of Dr. Manoj Kumar, Principal had organized a webinar on "Current Trends in the Internet and Wireless Communication Technologies". The moderator of the webinar was Dr. Neetu Ghalwat, Asstt. Prof (CSE). The speakers for the lecture was Dr. Shuchita Upadhyaya Bhasin, Professor from Kurukshetra University Kurukshetra and Hitesh Chhabra, Head-Enterprises IP Networks Solutions at Huawei Technologies. More than 280 participants were registered from various Colleges, Organization and Industry in the Webinar. Dr. Harpreet K Bajaj, Head of department concluded the webinar with a vote of thanks to speaker and all the participants.

Problem solving (Coding Competition – Code Chef)

Report of Coding Event by Prisma Club

- A coding contest was organized by the Department of Computer Science and Engineering on 9/11/2020 for students to demonstrate their coding skills and proficiency in programming.
- The event was hosted online on Codechef which is a leading competitive programming community of programmers from across the globe and organized by Prisma Club.
- The contest comprised of four questions from data structures and algorithms for which allocated time to complete was three hours.
- The top three winners for the event were Pratik Gupta (CSE-7th sem), Madhav Verma (CSE-5th sem) and Shriya (CSE-3rd sem).

The screenshot shows the CodeChef website interface for a contest titled 'DAVIET'. The page features a navigation bar with 'PRACTICE & LEARN', 'COMPETE', and 'DISCUSS' options. The main content area displays the contest name 'DAVIET' and a table of problems. To the right, there is a 'Contest Ended' notification and a 'Contest Ranks' section. The bottom of the page shows 'ANNOUNCEMENTS' and 'STATS'.

Name	Code	Successful Submissions	Accuracy
Climbing a staircase	CLIMBING	28	21.15
Dasha's cows	DAVCOWS	24	36.82
Validate a Sudoku Board	VALIDSDU	15	42.35
Calculating eaves	ZE ROOFT	7	42.37

Contest Ended

Here's a look at our upcoming contests:

Contest	Date	Duration
WRCSDVD	9th Oct 2019 12:00 AM IST	730 Days
LEARNDDA	30th Mar 2020 12:00 AM IST	365 Days

Manage

Manage Contest

Contest Ranks

Go to Contest Ranks

STATS

- Total Users/Teams who have made a submission: 43
- Total Submissions: 287
- Number of distinct users/teams with correct submissions: 11

REPORT ON ENTREPRENEURSHIP & PROJECT MANAGEMENT ACTIVITY



BATCH 2022



Description of the activity

Name of the Activity	Business plan presentation
Subject	Entrepreneurship & Project management
Class	MBA 2 ND SEM
Year	2021-2023

The activity was about Business Plan presentation. It involved good research about the industry, proper clarity of the business model and good communication skills.

Our presentations were all about finding a viable Business Model which could be implemented in real life. Firstly, it involved finding individuals interest, and then the transformation of Individual's interest into a business plan. It required proper Industry analysis, competition analysis and obstacles and Challenges faced by the already established businesses. Further we tried to solve the existing problems faced by the consumes through our Goods and Services. Lastly, our business plans also included Cost analysis and Revenue Model.

The activity was allotted on 00-00--2022 and was conducted in between 00-00-2022 to 00-00-2022.

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Procedure Followed

1. Finding your **IKIGAI**

- Ikigai is a Japanese concept that means your 'reason for being.' 'Iki' in Japanese means 'life,' and 'gai' describes value or worth. Your ikigai is your life purpose or your bliss. It's what brings you joy and inspires you to get out of bed every day.

2. Conversion of your Ikigai into a viable Business Model.

3. Industry Analysis and Competitor Analysis

4. Selecting the 'Company Name' and 'Logo'

5. Forging VISION, MISSION and OBJECTIVES

6. Establishing USP (Unique Selling Proposition)

7. Description of Product and Services to be offered

8. Selection of Target Market and Consumers

9. Selection of Marketing and Sales Strategy

10. Cost Analysis and Revenue Model

11. SWOT Analysis of the Model

12. Future Strategy and Growth Optimization



❖ **Various discussions were held in the Class with our Teacher, while executing every single step.**

How it was performed

- Activity was assigned to our Class two weeks prior, the actual Class presentation.
- Fixed time limit was allotted to each and every student for presenting his/her business plan.
- Presentation was conducted in alphabetical order
- Business plan was judged on various parameters like the Description of the Business Model, its uniqueness (USP), Industry Analysis, Revenue and Cost Analysis etc.

Learning outcomes:

- We learned about different parts of the Business Plan
- We learned about various new terms and jargons like IKIGAI etc.
- This activity helped us to create concise presentations.
- It improved our confidence and communication skills.
- We learned how to prepare material for public presentation.
- It helped us to manage time by delivering whole topic in given time.
- This activity improved our critical thinking ability.
- We learned about the Real-life applications and procedures like
 - i. Company Registration
 - ii. Applying for GST
 - iii. Applying for Trade mark registration
 - iv. Filing for Patents etc.

Our experiences

B-Plan Presentation was one of the most novel experiences for the whole class. We faced lots of challenges while formulating the Business plans. Firstly, we were made to think out of the Box. We were let free to use our imagination and creativity. We tried to use our creativity to Solve real life problems with a pragmatic approach. We used our skills to forge viable Business plans.

As Bismarck once said “Only fools learn from his own mistakes, the wise man learns from the mistake of others.” While creating Business plans, we did Industry Analysis and Competition Analysis. We analyzed the fundamental issues which were hampering their growth. We tried to resolve the issues of the current Industry with the help of our Business Plans.

We made the most productive use of the Internet while creating Business plan. We designed our logos, Taglines and presentations using the technology. We designed our presentations using Microsoft Office, Google slides, Canva etc. We let our imagination to go into free flow while creating logos and presentations.

Through this activity, we learned about different Types of Business Models, Marketing strategies and Tactics. We applied these models like ‘Razor blade theory’ and ‘Hub and spoke model’ while making Business plans.

We created prototypes of our products and samples were circulated in the class. We received productive criticism. We will implement the feedback received to further improve our product.

We also presented our business plan in our class. While giving presentations we learned about various technicalities like pronunciation, pause, pitch of the voice etc. We experienced time constraint and learned about Time Management.

At the end of the presentations, we faced question from the audience regarding the B-plan. We tried to provide satisfactory answers to all the questions. Through this activity we realized an exponential boost in our Confidence and Self-esteem.



Picture Gallery



Students presenting their B-plan activity



Students presenting their B-plan activity

Conclusion

In the end we can conclude that, B-plan Presentation have been one of the most memorable experiences for us. We learned the most valuable skills like Logo Designing, Presentation making, Speaking skills, Time Management etc. These skills will not only help us Academic life, but in our professional lives also. We gained a novel experience, we engaged with our class fellows at a whole new level. This activity helped us to learn timeless skills, which will be ultimately helping us to enhance our knowledge bases. We all are looking forward to register our businesses and file patents for our Logo Designs and Process Innovations.

APPENDIX

ROLL NUMBER	NAME	B-plan
2102/21	Aashmine	Dadde maa dee Mathi
2112/21	Bhavneet singh	Hindbhoomi tours
2114/21	Dhritika palta	Palta Aroma Skin Beauty Cream
2104/21	Akash R	Akash Financial Solutions
2131/21	Neel Dogra	Oatry, KOKOFY, Bright-o, ND Solutions & consultants
2108/21	Anjali Mehta	Fortago fitness (Yoga Mat)
2101/21	Aarushi	Brush days
2129/21	Muskan chawla	WOOFZANIA (pet care business)
2117/21	Gunjan	Organic lip colors
2137/21	Raghav Soni	Leather Wallets
2110/21	Ashima sharma	Raas dance academy
2148/21	Shivam	Protein powder
2149/21	shivani	DOUGH ME A FLAVOUR (cakes business)
2153/21	Sudanshu	Car spare parts
2125/21	KRITIKA AGGARWAL	Creativity and innovation : Ecofriendly Tree Ganesha
2154/21	Swati Singh	SWT organic chocolate company
2155/21	Tanisha Meenia	Fitness power gym

Emerging Brands:

MBA 2nd Semester

Batch 2022

