GNIOT

GNIOT Group of Institutions Since 2001

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ENGG. INSTITUTE

5.1.3

Percentage of students benefited by guidance of competitive examinations and career counseling offered by the institution during the last five years.

Greater Noida Institute of Technology (Engg. Institute)

Plot No. 7, Knowledge Park II, Greater Noida
Uttar Pradesh 201310 India

5.1.3 Percentage of students benefitted by guidance of competitive examionations and career counseling offered by the institutions during the last five years (Institution Level)

Expert Lecture , Seminar,Workshops and industrial visits (2019-20)

| Sr. No.	Year	Date	Name of Event	Participant
1	2019-20	3rd March, 2020	SMART HACKS 2020	391
2	2019-20	10th June 2020	Organizational & Consumer Applications on Internet of Things	99
3	2019-20	28-Feb-20	Road Map to successful career	386
4	2019-20	23-10-2019	"GOOD RESEARCH & INNOVATION PRACTICES"	99
5	2019-20	23-Nov-19	"Motivational Session for Successful Entrepreneurs"	42
6	2019-20	21-Nov-19	WORKSHOP ON PYTHON	103
7	2019-20	23-Aug-19	"Developing Online Repository of Start-ups Developed "	79
8	2019-20	18th Sep, 2019	big data analytics	83
9	2019-20	18th Nov, 2019	coding competition	156
10	2019-20	23th April, 2020	ARTIFICIAL INTELLIGENCE	43
11	2019-20	07-11-2019	National Cancer Awareness Day	17
12	2019-20	10-11/10/2019	Solar Photovoltaic System	33
13	2019-20	11-11-2019	Innovative Projects as a Product	15
14	2019-20	17.07.2020	How to rank 1 on Google-SEO Basics	25
15	2019-20	01.11.2019	Application OfGis Data In Ground Water Data Determination	40
16	2019-20	17.01.2020	Design Of Android Application For Curing And Irrigation	
17	2019-20	21-Sep-19	"Knowing what are the employer looking in US"	NO
18	2019-20	11-Oct-19	"Assembling the I.C engine's main components"	45
19	2019-20	28-Feb-20	"Advanced ultrasuper critical (AUSC) technology	140
20	2019-20	29-Feb-20	"Pro-Cast india pressure die casting and machining Pvt. Ltd."	38
21	2019-20	13July- 19	GATE CLASSES FOR CSE, IT, EC, EE, CE AND ME Department	481

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Ref: - No. GNIOT/ECE/EVEN/Events/02 Date: 22.02.2020

NOTICE

This is to inform all the students that as per the academic calendar the department are organizing workshop for the current semester, continuing the same practice you are all informed that workshop is being organized on Smart Hack 2020on28thFebruary 2020.

The students are requested to Present in full strength and take the maximum benefits of the workshop

Director

Dr. Shefy Garg
HOD, ECE
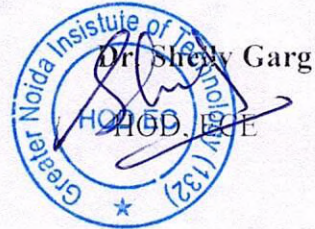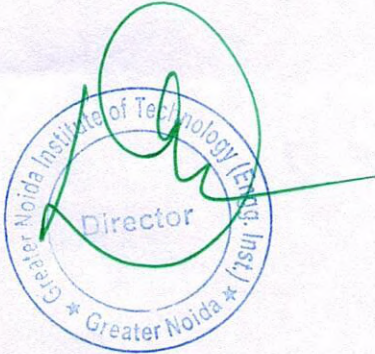
Workshop
on

"SMART HACKS 2020"

03March, 2020
(1:30PM to 5:00 PM)

Organized by

**INSTITUTION'S
INNOVATION
COUNCIL**
(Ministry of Education Initiative)

GNIOT
Group of Institutions
Since 2001

Institution's Innovation Council

Greater Noida Institute of
Technology (GNIOT)
**(An Initiative of Ministry of Education, Govt. of India)
Knowledge park-II, Greater Noida– 201308
www.gniot.net.in**

Director
Greater Noida
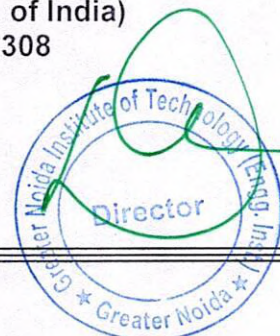
COURSE No. & TITLE:
Workshop On Smart Hack 2020.

PARTICIPANTS:

3rd Year Students & Faculty members of departments, B.TechECE.

OBJECTIVES:

- To understand the basics of Wireless Sensor Network.
- To understand the research gaps in the Wireless Sensor Network.
- To understand the various methodologies implemented in the existing studies to overcome the research challenges.
- To motivate the students for the research and designing innovative projects.
- To establish function ecosystem for scouting ideas and pre-incubation of ideas.

Venue: Lab no 121, 1st floor
Date: 03rd March 2020
Time:1.30 PM Onwards

Expert:
Ms. Radhika Sharma
ICT ,IIT Kanpur
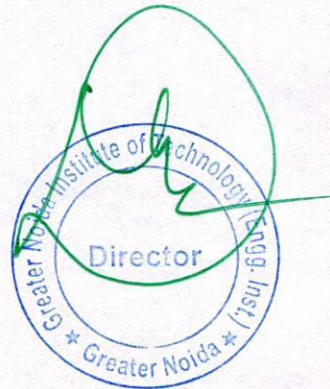
Report

**Event Name:** SMART HACKS 2020

**Date:** 3rd March, 2020.

Event Summary

Electronics and Communication engineering department organized SMART HACKS 2020 on 3rd March, 2020.

A computer based test was conducted on C/C++ in collaboration with ICT Academy of IIT Kanpur. More than 70 students participated in the event. Students were thrilled to participate in Pan India event. The objective of organizing such events is to narrow the gap between the academic approach to Electronics & ICT domains as currently provided by the educational institutions and the practically oriented approach as demanded by the industry.

It is a 2 phase event. First round is being conducted at GNIOT while the second round will be conducted at IIT Kanpur. Such Experiences are a big motivation for the students to work in technological areas.

We would like to extend a heartfelt thanks to GNIOT Management and Director, for giving us the opportunity to organize this event. A special thanks to Dean (R&D) for gracing the event with his presence. We're also thankful to *Dr. Shelly Garg (HOD-ECE) for her valuable inputs and necessary support.
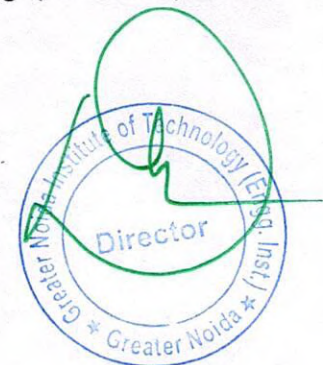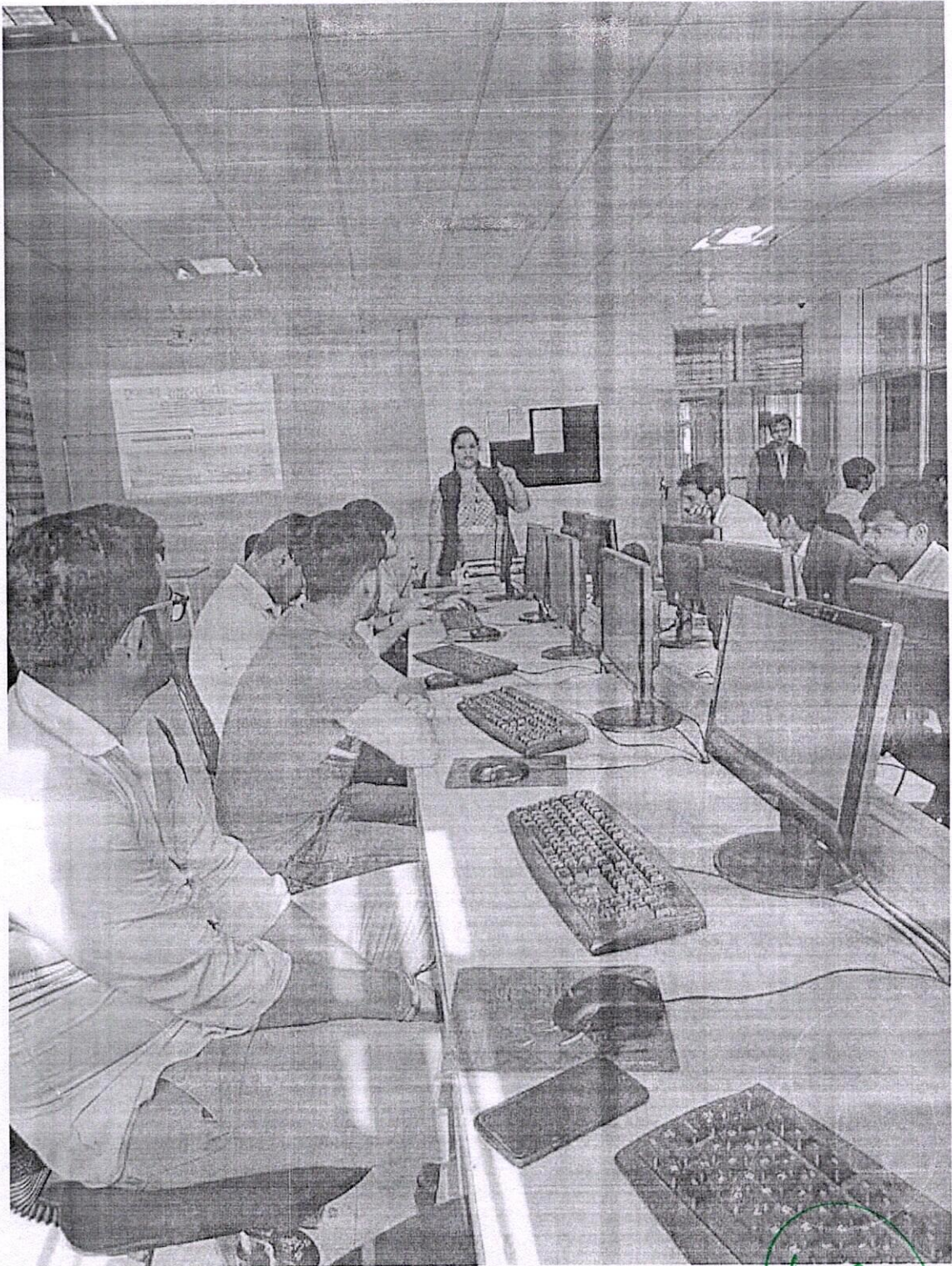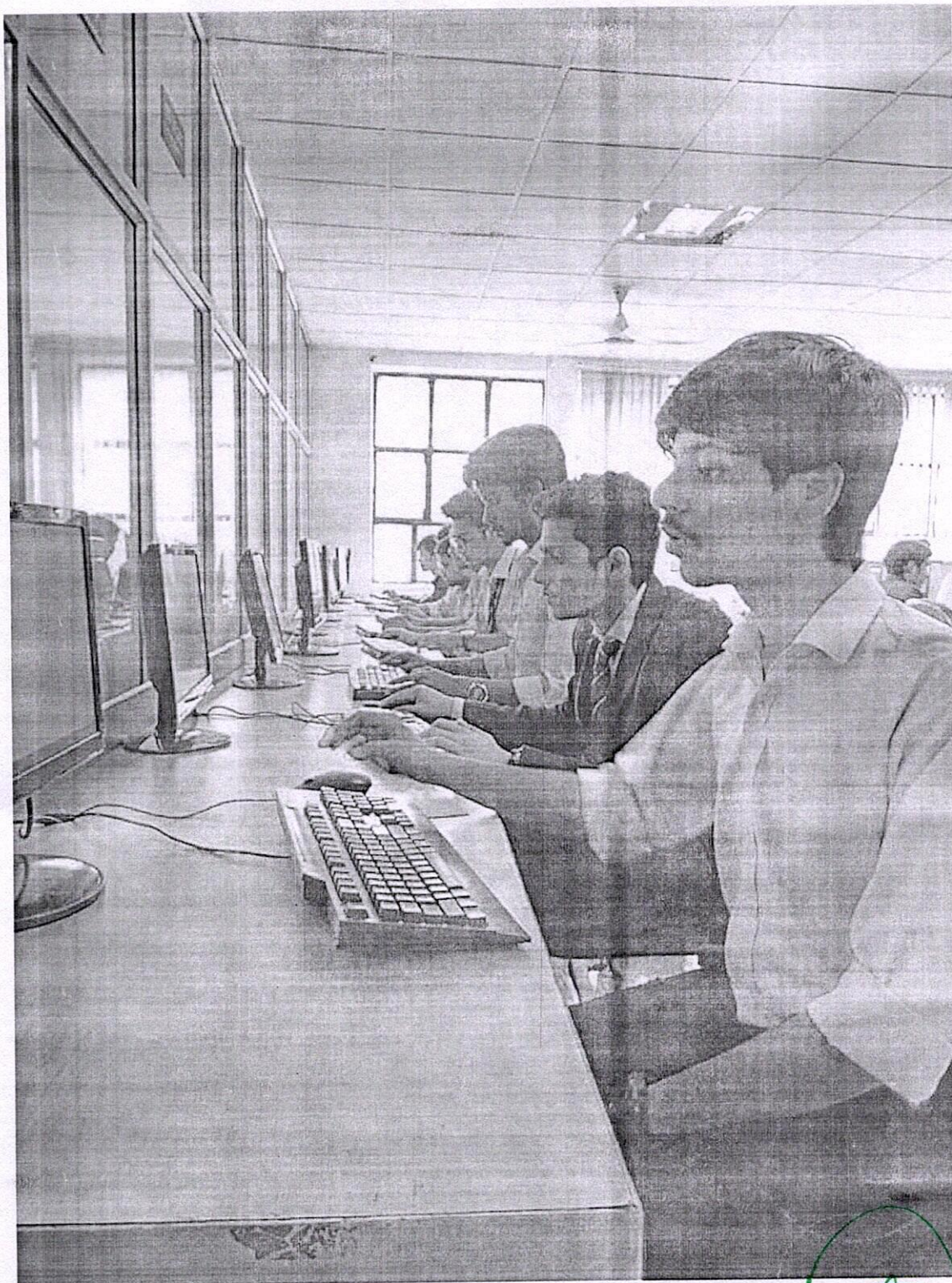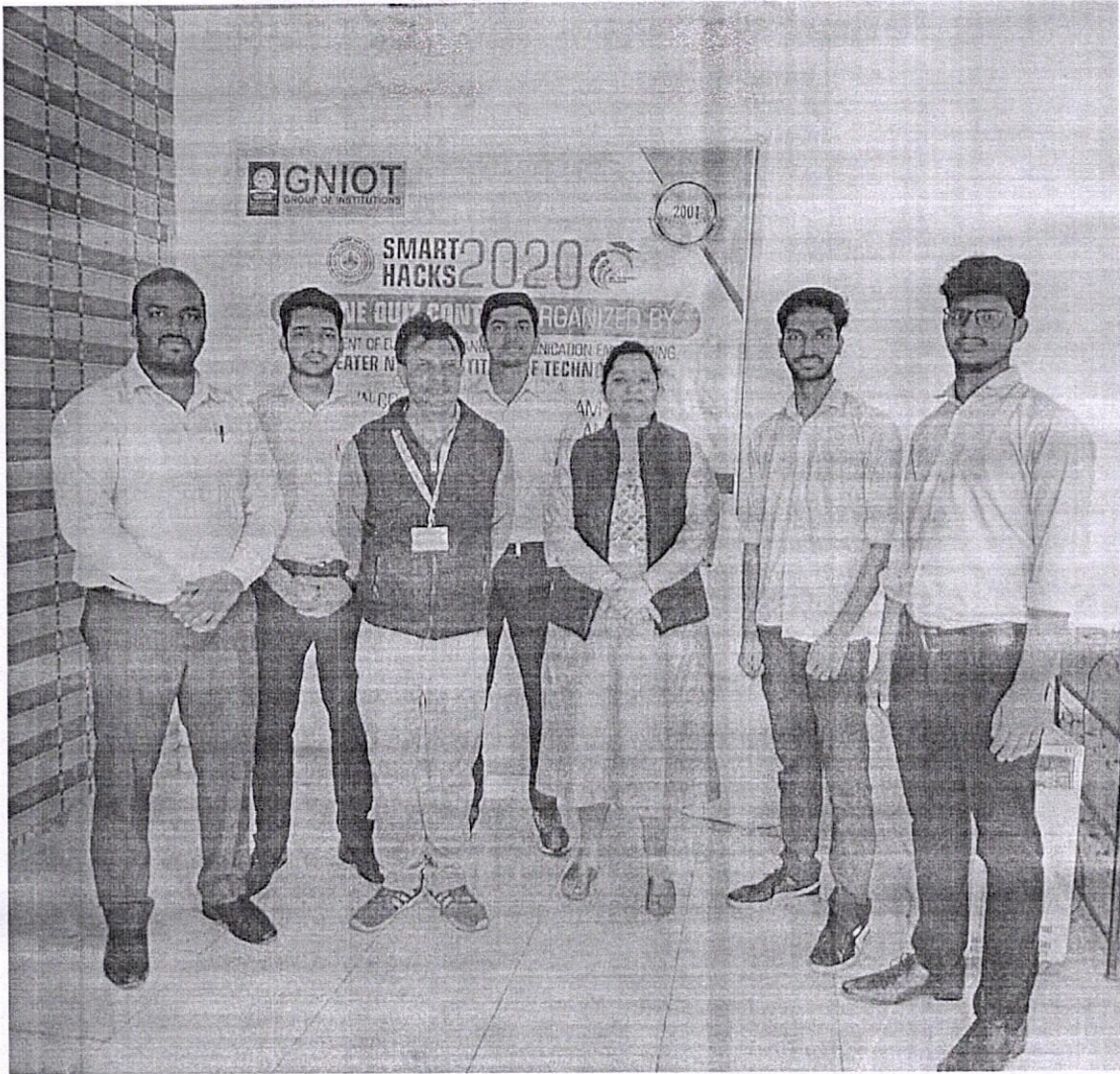
Outcome of the Program

1. Students get to know the various innovative projects that they can opt for in their semester.
2. Students gained experience of how the Innovation activities are executed.
3. Students also became aware of the research gaps which exist in the domain of wireless sensor networks.
4. Students also became aware of the practices to be adopted in order to make their sensor network efficient.


Greater Noida Institute of Technology, Gr. Noida
Electronics & Communication Engineering Department
Student List (EC-2nd Year)

S.No.	Roll No	Student Name	P/A
1	1513231010	ABHISHEK PANDEY	P
2	1513231014	ADITYA CHANDRA	P
3	1513231017	AJIT ALANKAR	P
4	1513231025	AMAR NATH JHA	P
5	1513231034	ANJALI HONEY	A
6	1513231044	ANURAG ANAND	P
7	1513231056	DEEPA VERMA	P
8	1513231060	DEVESH KUMAR JHA	P
9	1513231063	DHARMENDRA YADAV	P
10	1513231080	KAMLESH KUMAR TIWARI	P
11	1513231091	MAHMOOD ALI	P
12	1513231101	MILAN KUMAR SINGH	A
13	1513231106	NANDAN	P
14	1513231114	NITIN RAJ	P
15	1513231129	PRAVEEN SINGH	P
16	1513231167	SHREY SINGH	P
17	1513231170	SHUBHAM MISHRA	P
18	1513231173	SHWETANK	P
19	1513231201	VIVEK MAJHWAR	P
20	1613231001	ABHISHEK ANAND	P
21	1613231002	ABHISHEK KUMAR	A
22	1613231003	ABHISHEK KUMAR RAY	P
23	1613231004	ABHISHEK KUMAR SINGH	P
24	1613231005	ABHISHEK YADAV	P
25	1613231006	ADITYA KUMAR VERMA	A
26	1613231007	AKHIL SHARMA	P
27	1613231008	AKRIT PRASAD	P
28	1613231009	AKSHANSH KULASARI	P
29	1613231010	ALOK DWIVEDI	P
30	1613231011	AMAN KUMAR PANDEY	P
31	1613231012	AMAN KUMAR SHARMA	A
32	1613231013	AMEY RAJ JAISWAL	P
33	1613231014	AMIT KUMAR	P
34	1613231015	AMIT KUMAR SHUKLA	P
35	1613231016	ANJALI PATHAK	P
36	1613231017	ANJULA	P
37	1613231019	ANKIT KUMAR PANDEY	A
38	1613231020	ANKIT KUMAR SRIVASTAVA	P
39	1613231021	ANMOL UPADHYAY	P
40	1613231023	APRAJITA	P
41	1613231024	ARJU RAJ	P
42	1613231025	ASHISH CHAUHAN	P
43	1613231026	ASHISH KOUNDAL	P
44	1613231027	ASHWINI KUMAR	A
45	1613231028	AVINASH KUMAR	P
46	1613231029	AZEEM NAZIM	P
47	1613231030	BIJENDER YADAV	P
48	1613231031	BINITH ROY	P
49	1613231033	DEEPAK SINGH	P
50	1613231034	DEEPAK KUMAR SINGH	P

51	1613231035	DEVESH MAURYA		P
52	1613231036	DIPENDRA KUMAR		P
53	1613231037	DIVYANSHA VATS		P
54	1613231038	FARHEEN SOHAIL		P
55	1613231040	GAURAV KUMAR		P
56	1613231042	HAMZA ANSARI		P
57	1613231043	HARIOM KUMAR		P
58	1613231044	JATIN CHOUDHARY		A
59	1613231045	JAYTI		P
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63	1613231050	KUNDAN YADAV		P
64	1613231051	MANASH		P
65	1613231052	MANISH KUMAR		A
66	1613231053	MANISH YADAV		P
67	1613231054	MANJEET YADAV		P
68	1613231055	MD ALTAF RJA		P
69	1613231056	MD FAIZUL ISLAM		A
70	1613231058	MD QUTBUDDIN		P
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73	1613231061	NEHA KUMARI		P
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75	1613231063	NITISH KUMAR GIRI		P
76	1613231064	NITLESH PATEL		P
77	1613231065	PANKAJ KUMAR PANDEY		P
78	1613231066	PAPPU KUMAR		P
79	1613231067	PIYUSH SINGH		P
80	1613231068	PRAKASH KUMAR		P
81	1613231070	PRANJAL ASTHANA		A
82	1613231071	PRASHANT RAJ		P
83	1613231072	PRATYNCHA PRACHI		P
84	1613231074	PREM KUMAR		P
85	1613231075	PRITESH KUMAR		P
86	1613231076	PRIYA RANJAN KUMAR		P
87	1613231077	RAHUL RAJ		A
88	1613231078	RAHUL KUMAR RANJAN		P
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90	1613231080	RAJESH KUMAR		P
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92	1613231082	RAM GOPAL		P
93	1613231083	RAVI RAUSHAN		P
94	1613231084	RINAL AKSH		P
95	1613231085	RITESH KUMAR		A
96	1613231086	RIYA CHAUDHARY		A
97	1613231087	RIYA SINHA		P
98	1613231088	ROHIT KUMAR		P
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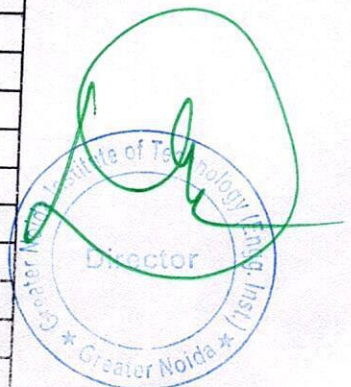
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122	1613231117	SONI KUMARI	P
123	1613231118	SONI KUMARI	P
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129	1613231125	TANYA ROY	P
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138	1613240064	JITENDRA YADAV	P
139	1713231901	AVANTIKA SINGH	A
140	1713231902	BRIJESH KUMAR	P
141	1713231903	DILER KHAN	P
142	1713231904	PRIYA BHARTI	P

Greater Noida Institute of Technology, Gr. Noida
Electronics & Communication Engineering Department
### Student List (EC-3rd year)

S.No.	UPTU Roll No	Student Name	P/A
1	1313231126	RAJA RAJESH	P
2	1413231001	AALIYA MISBAH	P
3	1413231011	ADITYA NARAYAN SRIVASTAVA	P
4	1413231020	ANKUR ARUN SINGH	P
5	1413231040	GYAN PRAKASH	P
6	1413231060	NADEEM ALI	P
7	1413231061	NAVEEN SINGH	P
8	1413231069	NITISH KUMAR	P
9	1413231079	PRASHANT KUMAR	A
10	1413231095	REWA SHANKAR YADAV	P
11	1413231110	SANDEEP KUMAR	P
12	1413231119	SAURAV NITI	P
13	1413231139	SUMIT MAHALWAR	P
14	1413231146	UTPAL KUMAR	P
15	1413231158	VIVEK KUMAR	A
16	1413231159	VIVEK KUMAR SINGH	P
17	1513200132	MOKSHITA BANSAL	P
18	1513231003	AASTHA PATHAK	P
19	1513231004	ABHAYANAND	P
20	1513231005	ABHIJEET JAISWAL	P
21	1513231006	ABHINAV KUMAR	P
22	1513231008	ABHISHEK KUMAR	A
23	1513231009	ABHISHEK KUMAR	P
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29	1513231019	AKASH KUMAR GUPTA	A
30	1513231020	AKSHAY CHOUDHARY	P
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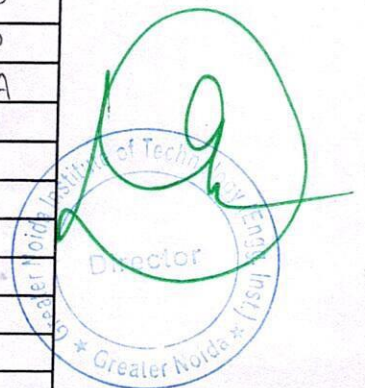
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71	1513231078	JITENDER KUMAR	P
72	1513231079	KAJAL	P
73	1513231081	KAUSAR PARWEEN	A
74	1513231082	KAUSHAL SINGH	P
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81	1513231092	MANIKANT KUMAR	P
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83	1513231094	MANISH KUMAR PANDEY	P
84	1513231095	MANISH RANJAN	P
85	1513231096	MANORMA PAL	P
86	1513231098	MD ASIF RASHID	P
87	1513231102	MOHAMMAD SHARIQ	P
88	1513231103	MOHD SAJID KHAN	P
89	1513231107	NAVDEEP SRIVASTAV	A
90	1513231108	NAVNEET KUMAR SINGH	P
91	1513231110	NEERAJ DIXIT	P
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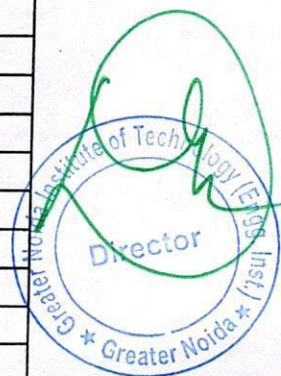
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103	1513231124	PRATIK KUMAR	P
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112	1513231137	RAJ KUMAR NISHAD	P
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122	1513231150	RISHU	P
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124	1513231152	ROHIT	P
125	1513231153	ROHIT MISHRA	P
126	1513231154	RONIT SHARMA	A
127	1513231155	SAFDAR MAHFOOZ	P
128	1513231157	SALONI GUJRE	P
129	1513231158	SASHESH MADAN	P
130	1513231159	SAUMYA KUMARI JHA	A
131	1513231160	SHAHBAZ AFGHAN KHAN	P
132	1513231161	SHAILENDRA PATEL	P
133	1513231163	SHIKHA TIWARI	P
134	1513231164	SHIVAM	P
135	1513231165	SHIVAM GOPAL	P
136	1513231166	SHOMYA	P
137	1513231168	SHRUTI RAI	P
138	1513231169	SHUAB	P
139	1513231172	SHUBHAM VISHNOI	P
140	1513231174	SIDDHANT SARASWAT	A
141	1513231175	SIDDHARTH PANDEY	P
142	1513231176	SIDHARTH SHARMA	P
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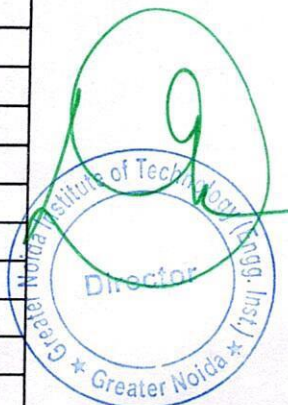
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153	1513231188	TARUN SRIVASTAV	P
154	1513231189	TUSHA SINGH	A
155	1513231191	UJJWAL AKASH	P
156	1513231192	VARTIKA SRIVASTAVA	P
157	1513231193	VEDANT KUMAR SINGH	P
158	1513231195	VIKRAM SOLANKI	P
159	1513231197	VISHAL DUBEY	P
160	1513231199	VISHAL SINGH	P
161	1513231200	VISHWAJIT KUMAR TIWARI	P
162	1513231202	YASH KUMAR	P
163	1513231203	YASHVARDHAN SHUKLA	A
164	1513231903	RAVINDER	A
165	1581031003	ANKITA NARAYAN RAI	P
166	1581031005	BHAGIRATH KUMAR	P
167	1581031006	JITENDRA KUMAR	P
168	1581031007	KARUNA GAUR	P
169	1581031009	MD ABULAISH ANSARI	P
170	1581031010	MEGHA KUMARI	P
171	1581031011	MUNEER KHAN	P
172	1581031012	NASEEM AHMAD	P
173	1581031015	ROHIT KUMAR	A
174	1581031017	UDAY BANDRAL	P
175	1613231904	MD SOHRAB ALAM	P
176	1681031901	ABHISHEK RANJAN	P

Greater Noida Institute of Technology, Gr. Noida
Electronics & Communication Engineering Department
Student List (EC-4th year)

S.No.	Roll No	Student Name	P/A
1	1313231124	RAHUL KUMAR	P
2	1313231129	RAJ KUMAR	P
3	1413231018	ANKIT SINGH RAWAT	P
4	1413231038	DIVYANSH MISHRA	P
5	1413231047	JYOTI AGRAWAL	P
6	1413231053	KUSHAGRA KUMAR	P
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15	1413231076	PRAGATI MISHRA	P
16	1413231077	PRANIT KUMAR	P
17	1413231078	PRANJAL KHARE	P
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37	1413231109	SANDEEP KUMAR	A
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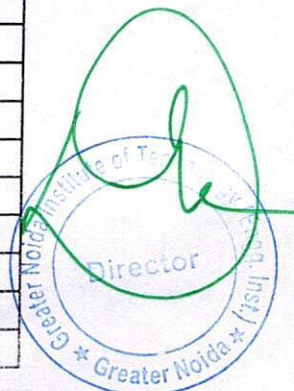
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72	1413231019	ANKITA SHRIVASTAVA	P
73	1413231021	ANNU SINGH	P
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75	1413231027	ASHUTOSH CHANDRADHARI	P
76	1413231029	AVNISH SAXENA	P
77	1413231030	AYUSH SRIVASTAVA	P
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86	1413231051	KULDEEP KUMAR	P
87	1413231055	MAMTA NAG	P
88	1413231074	PRABHAT SINGH	P
89	1513231901	JAIVIR SHARMA	P
90	1313231843	SANJEET KUMAR	P
91	1413231007	ABHISHEK SINGH	P
92	1413231009	ADARSH KUMAR	P
93	1413231010	ADITYA CHAUHAN	P
94	1413231013	AKARSHIT PRATAP SINGH	A
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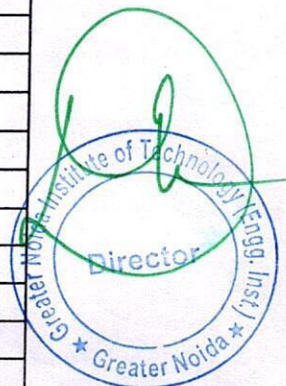
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101	1413231045	HRITURAJ KUMAR	P
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103	1413231063	NAVNEET KUMAR	P
104	1413231064	NAVNEET SHARMA	P
105	1413231066	NIRBHAY RAGHAV	A
106	1413231067	NISHANT KUMAR	P
107	1413231073	PIYUSH KUMAR SINGH	P
108	1413231089	RAJNEESH KUMAR	P
109	1413231094	RAVINDRA KUMAR	A
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111	1413231107	SAGAR SINGH	P
112	1413231112	SANTOSH BHAGAT	P
113	1413231117	SATYENDRA KUMAR JHA	P
114	1413231118	SAURABH CHATTERJEE	P
115	1413231123	SHANTANU SHANKAR	P
116	1413231124	SHIKHA SINGH	P
117	1413231130	SHUBHAM SHUKLA	A
118	1413231132	SHWETA SINGH	A
119	1413231137	SUJEET KUMAR	P
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121	1413231143	UTKARSH KUMAR	P
122	1413231153	VIKRANT KUMAR	P
123	1413231155	VIPASHA RANA	P
124	1413231156	VIPIN KUMAR GUPTA	P
125	1413231157	VIR VIKRAM BHADUR SINGH	P

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Ref: - No. GNIOT/ECE/EVEN/Events/03   Date:05.06.2020

NOTICE

This is to inform all the students that as per the academic calendar the department are organizing webinar for the current semester, continuing the same practice you are all informed that webinar is being organized on "Organisational & Consumer Applications on Internet of Things" on10th june 2020.

The students are requested to Present in full strength and take the maximum benefits of the workshop
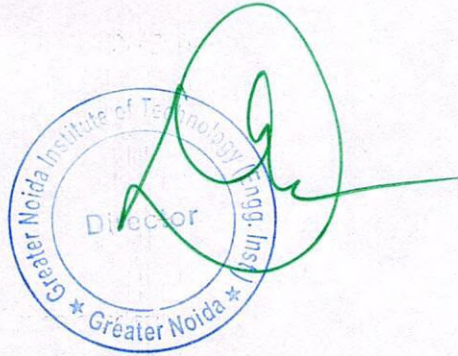
Dr. Shelly Garg

HOD, ECE

Expert Talk on

"Organisational & consumer application on IOT"

10June,2020
(11:00 AM to 12:30 PM)

Organized by

INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of Education Initiative)

GNIOT
Group of Institutions
Since 2001

Institution's Innovation Council

Greater Noida Institute of Technology (GNIOT)

(An Initiative of Ministry of Education, Govt. of India)
Knowledge park-II, Greater Noida– 201308
www.gniot.net.in

COURSE No. & TITLE:
Expert talk on Organisational& consumer application on IOT.

PARTICIPANTS:

2nd and 3rd Year Students & Faculty members of departments, B.Tech ECE.

OBJECTIVES:

- To understand the latest trends in IoT.
- To understand the basics of Wireless Sensor Network.
- To understand the research gaps in the Wireless Sensor Network.
- To understand the various methodologies implemented in the existing studies to overcome the research challenges.
- To motivate the students for the research and designing innovative projects.
- To establish function ecosystem for scouting ideas and pre-incubation of ideas.
- To develop better cognitive ability among students.

Venue: Seminar Hall, 1st floor
Date: 10th June 2020
Time:11:00 AM Onwards

Expert:
Mr. Vivek Gupta
Mr. Shiv Narain Gupta
GNIOT

Report

Department of Electronics and Communication Engineering organized a Webinar on Organisational & Consumer Applications on Internet of Things on 10th June 2020 between 11:30 am to 1:00 pm .

This webinar was being organized to introduce the basic concepts and applications of one of the emerging field of engineering i.e. Internet of things (IoT).
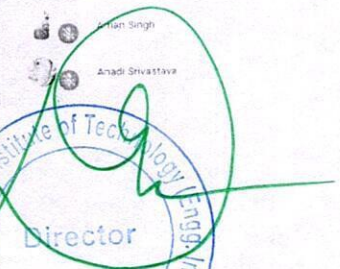
Experts discuss and explore the History, Scope and Applications of IOT in Homes, Health Cares, Transportation System and also Career in the field of IOT.

Candidates interested to join through provided link. It was conducted using Google meet platform. E-Certificate provided to all the attendees for their valuable participation in the webinar.

We would like to extend a heartfelt thanks to GNIOT Management and Director, for giving us the opportunity to organize this event. A special thanks to Dean (R&D) for gracing the event with his presence. We're also thankful to *Dr. Shelly Garg (HOD-ECE) for his valuable inputs and necessary support.
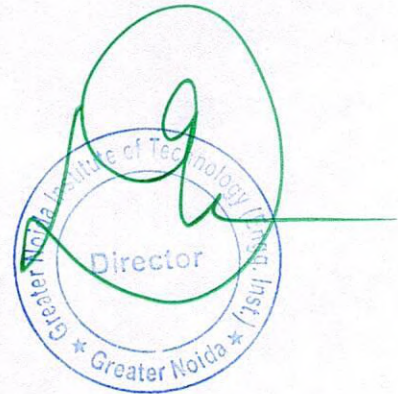
Outcome of the Program

1. Students get to know the various innovative projects that they can opt for in their semester.
2. Students also became aware of the technical and financial support provided by IIC.
3. Students also became aware of the practices to be adopted in order to make their sensor network efficient.
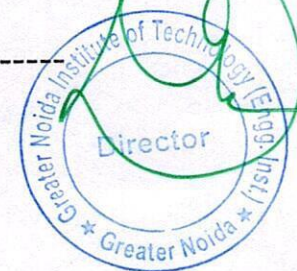
Greater Noida Institute of Technology, Gr. Noida
Electronics & Communication Engineering Department
Student List (EC-4th year)

S.No.	Roll No	Student Name	P/A
1	1313231124	RAHUL KUMAR	P
2	1313231129	RAJ KUMAR	P
3	1413231018	ANKIT SINGH RAWAT	P
4	1413231038	DIVYANSH MISHRA	A
5	1413231047	JYOTI AGRAWAL	P
6	1413231053	KUSHAGRA KUMAR	A
7	1413231054	MALVIKA PRASAD	P
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29	1413231098	RISHI RANJAN	P
30	1413231099	RITESH KUMAR	P
31	1413231100	RITESH KUMAR SINHA	P
32	1413231101	ROHIT JAISWAL	A
33	1413231102	ROHIT KUMAR	P
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35	1413231104	ROHIT TIWARI	P
36	1413231106	RUDRA PRATAP SINGH	A
37	1413231109	SANDEEP KUMAR	P
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39	1413231113	SATYAJEET ANAND	P
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42	1413231116	SATYAM SHIVAM	P
43	1413231120	SAVITA	P
44	1413231121	SHAGUFTA KHAN	P
45	1413231122	SHAMYANK	A
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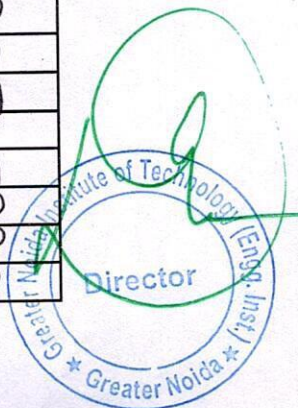
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116	1413231124	SHIKHA SINGH	A
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123	1413231155	VIPASHA RANA	P
124	1413231156	VIPIN KUMAR GUPTA	A
125	1413231157	VIR VIKRAM BHADUR SINGH	P

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Ref: - No. GNIOT/ECE/EVEN/Events/01 Date: 24.02.2020

NOTICE

This is to inform all the students that as per the academic calendar the department are organizing Expert Talk for the current semester, continuing the same practice you are all informed that expert talk is being organized on Road Map to successful careeron28th February 2020.

The students are requested to Present in full strength and take the maximum benefits of the workshop

Dr. Shelly Garg
HOD EC
HOD, ECE

Director

Expert Talk on

"Roadmap to successful career"

28Feb, 2020
(11:00 AM to 12:30 PM)

Organized by

**INSTITUTION'S
INNOVATION
COUNCIL**
(Ministry of Education Initiative)

GNIOT
Group of Institutions
Since 2001

Institution's Innovation Council

Greater Noida Institute of Technology (GNIOT)

(An Initiative of Ministry of Education, Govt. of India)
Knowledge park-II, Greater Noida– 201308
www.gniot.net.in

Director

COURSE No. & TITLE:
Expert talk on Road Map to successful career.

PARTICIPANTS:

2nd and 3rd **Year Students & Faculty members of departments, B.Tech ECE.**

OBJECTIVES:

- To understand the latest trends in ECE.
- To understand the various methodologies implemented in the existing studies to overcome the research challenges.
- To motivate the students fordesigning innovative projects.
- To establish function ecosystem for scouting ideas and pre-incubation of ideas.
- To develop better cognitive ability among students.

Venue: Seminar Hall, 1st floor
Date: 28thFebruary 2020
Time:11.00 AM Onwards

Expert:
Mr. Piyanshu Aggarwal, Program Manager
Mr. Rahul Chaudhary, Program Manager
United Health Group, Gurugram

Profile of the Expert

Mr. Priyanshu Aggarwal and Mr. Rahul Chaudhary, Program Manager at United Health Group(UHG).UHG is the largest healthcare company in the world by revenue. Mr. Priyanshu also an Alumnus of 2011 batch, felt extremely happy to share his experiences and explain the importance of engineers in economy building. He also discussed the upcoming job opportunities available for electronics students and stressed on continuous up gradation.
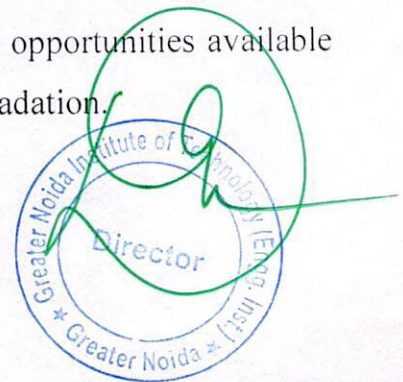
Report

Event Name: Road Map to successful career

Date: 28th Feb 2020

Resource Person: Mr. Priyanshu Aggarwal and Mr. Rahul Chaudhary,

Electronics & Comm. engineering department organized an expert session for second and third year students on "Road Map to successful career" by Mr. Priyanshu Aggarwal and Mr. Rahul Chaudhary, Program Manager at United Health Group (UHG). UHG is the largest healthcare company in the world by revenue.The session helped students to learn how to better improve themselves and develop strategies to get past real and mental obstacles caused by educational level, gender or workplace limitations. Students were guided to change how to think of and talk to themselves to bring about a change in the way others respond to them in this global pool of competitive world.

Students were enlightened about the techniques performing better in interview/presentations.Students were also educated about start up programs and were motivated to take initiative for realizing their creative ideas.

Mr. Priyanshu also an Alumnus of 2011 batch, felt extremely happy to share his experiences and explain the importance of engineers in economy building. He also discussed the upcoming job opportunities available for electronics students and stressed on continuous up gradation.
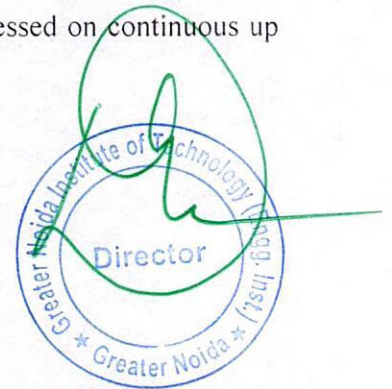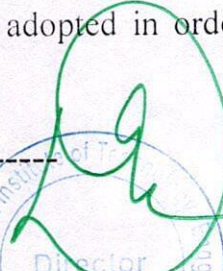
Outcome of the Program

1. Students get to know the various innovative projects that they can opt for in their semester.
2. Students also became aware of the technical and financial support provided by IIC.
3. Students gained experience of how the Innovation activities are executed.
4. Students also became aware of the research gaps which exist in the domain of wireless sensor networks.
5. Students also became aware of the practices to be adopted in order to make their sensor network efficient.

Greater Noida Institute of Technology, Gr. Noida
Electronics & Communication Engineering Department
Student List (EC-2nd Year)

S.No.	Roll No	Student Name	P/A
1	1513231010	ABHISHEK PANDEY	P
2	1513231014	ADITYA CHANDRA	P
3	1513231017	AJIT ALANKAR	P
4	1513231025	AMAR NATH JHA	P
5	1513231034	ANJALI HONEY	P
6	1513231044	ANURAG ANAND	A
7	1513231056	DEEPA VERMA	P
8	1513231060	DEVESH KUMAR JHA	P
9	1513231063	DHARMENDRA YADAV	P
10	1513231080	KAMLESH KUMAR TIWARI	P
11	1513231091	MAHMOOD ALI	P
12	1513231101	MILAN KUMAR SINGH	P
13	1513231106	NANDAN	P
14	1513231114	NITIN RAJ	P
15	1513231129	PRAVEEN SINGH	A
16	1513231167	SHREY SINGH	P
17	1513231170	SHUBHAM MISHRA	P
18	1513231173	SHWETANK	P
19	1513231201	VIVEK MAJHWAR	P
20	1613231001	ABHISHEK ANAND	A
21	1613231002	ABHISHEK KUMAR	P
22	1613231003	ABHISHEK KUMAR RAY	P
23	1613231004	ABHISHEK KUMAR SINGH	P
24	1613231005	ABHISHEK YADAV	P
25	1613231006	ADITYA KUMAR VERMA	P
26	1613231007	AKHIL SHARMA	P
27	1613231008	AKRIT PRASAD	A
28	1613231009	AKSHANSH KULASARI	P
29	1613231010	ALOK DWIVEDI	P
30	1613231011	AMAN KUMAR PANDEY	P
31	1613231012	AMAN KUMAR SHARMA	P
32	1613231013	AMEY RAJ JAISWAL	P
33	1613231014	AMIT KUMAR	P
34	1613231015	AMIT KUMAR SHUKLA	P
35	1613231016	ANJALI PATHAK	A
36	1613231017	ANJULA	A
37	1613231019	ANKIT KUMAR PANDEY	P
38	1613231020	ANKIT KUMAR SRIVASTAVA	P
39	1613231021	ANMOL UPADHYAY	P
40	1613231023	APRAJITA	A
41	1613231024	ARJU RAJ	P
42	1613231025	ASHISH CHAUHAN	P
43	1613231026	ASHISH KOUNDAL	P
44	1613231027	ASHWINI KUMAR	P
45	1613231028	AVINASH KUMAR	P
46	1613231029	AZEEM NAZIM	A
47	1613231030	BIJENDER YADAV	P
48	1613231031	BINITH ROY	P
49	1613231033	DEEPAK SINGH	P
50	1613231034	DEEPAK KUMAR SINGH	P

51	1613231035	DEVESH MAURYA	P
52	1613231036	DIPENDRA KUMAR	P
53	1613231037	DIVYANSHA VATS	P
54	1613231038	FARHEEN SOHAIL	P
55	1613231040	GAURAV KUMAR	P
56	1613231042	HAMZA ANSARI	P
57	1613231043	HARIOM KUMAR	A
58	1613231044	JATIN CHOUDHARY	P
59	1613231045	JAYTI	P
60	1613231046	KARTIKEY ANAND	P
61	1613231048	KM ZUBI	P
62	1613231049	KRITI SINGH	A
63	1613231050	KUNDAN YADAV	P
64	1613231051	MANASH	P
65	1613231052	MANISH KUMAR	P
66	1613231053	MANISH YADAV	P
67	1613231054	MANJEET YADAV	A
68	1613231055	MD ALTAF RJA	P
69	1613231056	MD FAIZUL ISLAM	P
70	1613231058	MD QUTBUDDIN	P
71	1613231059	MOHD AMZAD KHAN	P
72	1613231060	MUNISH SINGH BISHT	A
73	1613231061	NEHA KUMARI	P
74	1613231062	NISHANT KUMAR	P
75	1613231063	NITISH KUMAR GIRI	P
76	1613231064	NITLESH PATEL	P
77	1613231065	PANKAJ KUMAR PANDEY	P
78	1613231066	PAPPU KUMAR	P
79	1613231067	PIYUSH SINGH	A
80	1613231068	PRAKASH KUMAR	P
81	1613231070	PRANJAL ASTHANA	P
82	1613231071	PRASHANT RAJ	P
83	1613231072	PRATYNCHA PRACHI	P
84	1613231074	PREM KUMAR	P
85	1613231075	PRITESH KUMAR	A
86	1613231076	PRIYA RANJAN KUMAR	P
87	1613231077	RAHUL RAJ	P
88	1613231078	RAHUL KUMAR RANJAN	P
89	1613231079	RAHUL SHARMA	P
90	1613231080	RAJESH KUMAR	P
91	1613231081	RAJU	P
92	1613231082	RAM GOPAL	A
93	1613231083	RAVI RAUSHAN	P
94	1613231084	RINAL AKSH	P
95	1613231085	RITESH KUMAR	P
96	1613231086	RIYA CHAUDHARY	P
97	1613231087	RIYA SINHA	P
98	1613231088	ROHIT KUMAR	P
99	1613231089	ROHIT KUMAR	A
100	1613231090	ROHIT KUMAR GUPTA	P
101	1613231092	SAKSHI RATURI	P
102	1613231093	SAMIR KUMAR	P
103	1613231094	SANDEEP KUMAR	P
104	1613231095	SANJANA KANOJIA	P

| 105 | 1613231097 | SATISH KUMAR JHA | P |
106	1613231098	SAURABH YADAV	P
107	1613231099	SAURAV JHA	P
108	1613231100	SAURAV KARMAKAR	P
109	1613231101	SHAHNAWAZ ALAM	P
110	1613231102	SHAHRUKH ANSARI	P
111	1613231104	SHANI KUMAR MAURYA	A
112	1613231106	SHIVANI GARG	P
113	1613231107	SHOBHIT VERMA	P
114	1613231108	SHRADHA SINGH	P
115	1613231109	SHRAWAN KUMAR	P
116	1613231110	SHREYASHI SEKHAR	P
117	1613231111	SHUBHAM	P
118	1613231112	SHUBHAM RAJ	A
119	1613231113	SHUBHAM SINGH	P
120	1613231115	SWETA RANI	P
121	1613231116	SMIT KANJARIYA	P
122	1613231117	SONI KUMARI	P
123	1613231118	SONI KUMARI	A
124	1613231119	SOURABH CHAKRABARTY	P
125	1613231120	SUDHANSHU BHARDWAJ	P
126	1613231122	SUSHANT TIWARI	P
127	1613231123	SUSHMA RANI	P
128	1613231124	SWATI KUMARI	P
129	1613231125	TANYA ROY	A
130	1613231126	TINKU	P
131	1613231127	UJJWAL KUMAR SINGH	P
132	1613231128	VIKAS SHUKLA	P
133	1613231129	VIKASH YADAV	P
134	1613231130	VIMAL KUMAR PAL	A
135	1613231131	VIRENDRA SINGH	P
136	1613231132	VIVEK SHARMA	P
137	1613231905	VINEET KUMAR	P
138	1613240064	JITENDRA YADAV	P
139	1713231901	AVANTIKA SINGH	A
140	1713231902	BRIJESH KUMAR	P
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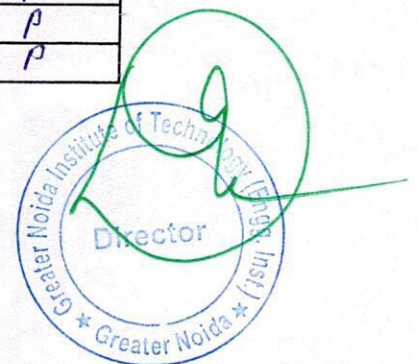
Greater Noida Institute of Technology, Gr. Noida
Electronics & Communication Engineering Department
Student List (EC-3rd year)

| S.No.	UPTU Roll No	Student Name	P/A
1	1313231126	RAJA RAJESH	P
2	1413231001	AALIYA MISBAH	P
3	1413231011	ADITYA NARAYAN SRIVASTAVA	P
4	1413231020	ANKUR ARUN SINGH	P
5	1413231040	GYAN PRAKASH	A
6	1413231060	NADEEM ALI	P
7	1413231061	NAVEEN SINGH	P
8	1413231069	NITISH KUMAR	P
9	1413231079	PRASHANT KUMAR	P
10	1413231095	REWA SHANKAR YADAV	P
11	1413231110	SANDEEP KUMAR	A
12	1413231119	SAURAV NITI	P
13	1413231139	SUMIT MAHALWAR	P
14	1413231146	UTPAL KUMAR	P
15	1413231158	VIVEK KUMAR	P
16	1413231159	VIVEK KUMAR SINGH	A
17	1513200132	MOKSHITA BANSAL	P
18	1513231003	AASTHA PATHAK	P
19	1513231004	ABHAYANAND	P
20	1513231005	ABHIJEET JAISWAL	A
21	1513231006	ABHINAV KUMAR	P
22	1513231008	ABHISHEK KUMAR	P
23	1513231009	ABHISHEK KUMAR	P
24	1513231011	ABHISHEK PRATAP SINGH	P
25	1513231012	ABHISHEK SINGH	A
26	1513231015	AISHA ALAM	P
27	1513231016	AJEET KUMAR SHUKLA	P
28	1513231018	AKASH AGRAWAL	P
29	1513231019	AKASH KUMAR GUPTA	P
30	1513231020	AKSHAY CHOUDHARY	P
31	1513231023	AKSHIKA GUPTA	P
32	1513231024	AMAN RAJ	A
33	1513231026	AMBER RAJ	P
34	1513231028	ANAND KUMAR	P
35	1513231029	ANAND RAI	P
36	1513231031	ANIKET KUMAR	P
37	1513231032	ANIKET YADAV	P
38	1513231033	ANISH KUMAR SINGH	A
39	1513231035	ANKIT KUMAR ARYA	P
40	1513231037	ANKIT KUMAR SINGH	P
41	1513231038	ANMOL SRIVASTAVA	P
42	1513231039	ANSHU RAJ	P
43	1513231040	ANUBHAV ANURAGI	P
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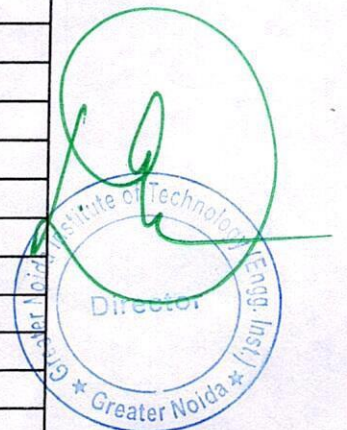
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51	1513231049	ASHISH SAXENA	P
52	1513231051	AVINASH VISHWAKARMA	P
53	1513231052	AYUSHI SRIVASTAVA	A
54	1513231053	CHANDAN JHA	P
55	1513231054	CHANDAN KUMAR	P
56	1513231057	DEEPAK KUMAR	P
57	1513231058	DEEPAK KUMAR TIWARI	P
58	1513231059	DEEPSHREE	A
59	1513231061	DEV NATH YADAV	P
60	1513231064	DHEERAJ SHUKLA	P
61	1513231065	DHIRENDRA KUMAR	P
62	1513231067	EKTA	P
63	1513231068	ESHITA JAISWAL	P
64	1513231071	GAURAV KUMAR	A
65	1513231072	HARSH VARDHAN	P
66	1513231073	HASAN IMAM	P
67	1513231074	HIMANSHU GUPTA	P
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69	1513231076	IQARAR AHEMAD	P
70	1513231077	IRSHITA	A
71	1513231078	JITENDER KUMAR	P
72	1513231079	KAJAL	P
73	1513231081	KAUSAR PARWEEN	P
74	1513231082	KAUSHAL SINGH	P
75	1513231083	KM ARCHANA SONKER	P
76	1513231085	KOMAL BHARTI	P
77	1513231086	KULDEEP SINGH	A
78	1513231087	KUMAR KISHLAY	P
79	1513231088	KUMARI PALAK	P
80	1513231089	KUNAL PRIYADARSHI	P
81	1513231092	MANIKANT KUMAR	A
82	1513231093	MANIKARNIKA RANI	P
83	1513231094	MANISH KUMAR PANDEY	P
84	1513231095	MANISH RANJAN	P
85	1513231096	MANORMA PAL	P
86	1513231098	MD ASIF RASHID	P
87	1513231102	MOHAMMAD SHARIQ	P
88	1513231103	MOHD SAJID KHAN	P
89	1513231107	NAVDEEP SRIVASTAV	P
90	1513231108	NAVNEET KUMAR SINGH	P
91	1513231110	NEERAJ DIXIT	P
92	1513231111	NIGAM KUMAR	P
93	1513231112	NISHA SINGH	P
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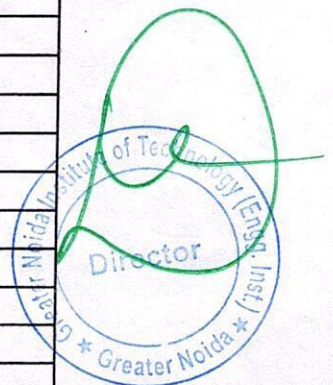
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102	1513231123	PRASHANT SINGH MAHARA	P
103	1513231124	PRATIK KUMAR	P
104	1513231125	PRATIK MISHRA	P
105	1513231127	PRATYUSH GAUTAM	P
106	1513231128	PRAVEEN KUMAR CHAUBEY	P
107	1513231131	RAHAT ALI KHAN	P
108	1513231132	RAHUL ROY	A
109	1513231134	RAHUL KUMAR	P
110	1513231135	RAHUL KUMAR SHARMA	P
111	1513231136	RAHUL RAJ PATHAK	P
112	1513231137	RAJ KUMAR NISHAD	P
113	1513231138	RAJAT PRAKASH RAI	P
114	1513231141	RAJKUMAR PRASAD	P
115	1513231142	RAJNISH KUMAR	P
116	1513231143	RAKESH KUMAR	A
117	1513231145	RAVI RANJAN SINGH	P
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120	1513231148	RISHAV KUMAR	P
121	1513231149	RISHIKESH PANDEY	P
122	1513231150	RISHU	P
123	1513231151	RITESH KUMAR SWARNKAR	A
124	1513231152	ROHIT	P
125	1513231153	ROHIT MISHRA	P
126	1513231154	RONIT SHARMA	P
127	1513231155	SAFDAR MAHFOOZ	P
128	1513231157	SALONI GUJRE	P
129	1513231158	SASHESH MADAN	P
130	1513231159	SAUMYA KUMARI JHA	P
131	1513231160	SHAHBAZ AFGHAN KHAN	A
132	1513231161	SHAILENDRA PATEL	P
133	1513231163	SHIKHA TIWARI	P
134	1513231164	SHIVAM	P
135	1513231165	SHIVAM GOPAL	P
136	1513231166	SHOMYA	P
137	1513231168	SHRUTI RAI	P
138	1513231169	SHUAB	A
139	1513231172	SHUBHAM VISHNOI	P
140	1513231174	SIDDHANT SARASWAT	P
141	1513231175	SIDDHARTH PANDEY	P
142	1513231176	SIDHARTH SHARMA	P
143	1513231177	SONAL SHARMA	P
144	1513231178	SONU KUMAR	A
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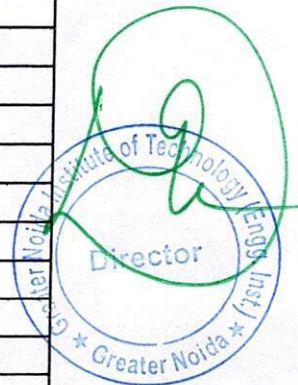
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153	1513231188	TARUN SRIVASTAV	A
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155	1513231191	UJJWAL AKASH	P
156	1513231192	VARTIKA SRIVASTAVA	P
157	1513231193	VEDANT KUMAR SINGH	P
158	1513231195	VIKRAM SOLANKI	A
159	1513231197	VISHAL DUBEY	P
160	1513231199	VISHAL SINGH	P
161	1513231200	VISHWAJIT KUMAR TIWARI	P
162	1513231202	YASH KUMAR	P
163	1513231203	YASHVARDHAN SHUKLA	A
164	1513231903	RAVINDER	P
165	1581031003	ANKITA NARAYAN RAI	P
166	1581031005	BHAGIRATH KUMAR	P
167	1581031006	JITENDRA KUMAR	P
168	1581031007	KARUNA GAUR	P
169	1581031009	MD ABULAISH ANSARI	P
170	1581031010	MEGHA KUMARI	P
171	1581031011	MUNEER KHAN	A
172	1581031012	NASEEM AHMAD	P
173	1581031015	ROHIT KUMAR	P
174	1581031017	UDAY BANDRAL	P
175	1613231904	MD SOHRAB ALAM	P
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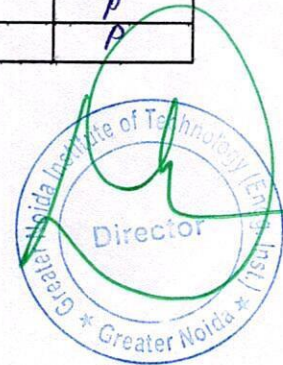
Greater Noida Institute of Technology, Gr. Noida
Electronics & Communication Engineering Department
Student List (EC-4th year)

S.No.	Roll No	Student Name	P/A
1	1313231124	RAHUL KUMAR	P
2	1313231129	RAJ KUMAR	P
3	1413231018	ANKIT SINGH RAWAT	P
4	1413231038	DIVYANSH MISHRA	P
5	1413231047	JYOTI AGRAWAL	P
6	1413231053	KUSHAGRA KUMAR	P
7	1413231054	MALVIKA PRASAD	A
8	1413231056	MANISHA BHARTI	P
9	1413231059	MUKESH JASWAL	P
10	1413231062	NAVIN BHATI	P
11	1413231065	NEHA BHARTI	P
12	1413231070	PALAK KUMARI	P
13	1413231071	PANKAJ RAWAT	P
14	1413231075	PRAFULLA CHANDRA	A
15	1413231076	PRAGATI MISHRA	P
16	1413231077	PRANIT KUMAR	P
17	1413231078	PRANJAL KHARE	P
18	1413231080	PRINCE RAJ	P
19	1413231081	RABICHANDRA YADAV	P
20	1413231082	RAHUL RAWAT	P
21	1413231083	RAHUL SINGH	P
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23	1413231085	RAHUL TYAGI	P
24	1413231086	RAJA JAIN	P
25	1413231091	RANJEET YADAV	P
26	1413231092	RASHMI SINGH	P
27	1413231093	RAVI KUMAR	P
28	1413231096	RISHABH JADON	P
29	1413231098	RISHI RANJAN	P
30	1313231099	RITESH KUMAR	A
31	1413231100	RITESH KUMAR SINHA	P
32	1413231101	ROHIT JAISWAL	P
33	1413231102	ROHIT KUMAR	P
34	1413231103	ROHIT TIWARI	P
35	1413231104	ROHIT TIWARI	P
36	1413231106	RUDRA PRATAP SINGH	P
37	1413231109	SANDEEP KUMAR	P
38	1413231111	SANJANI KUMARI	A
39	1413231113	SATYAJEET ANAND	P
40	1413231114	SATYAM KUMAR	P
41	1413231115	SATYAM KUMAR	P
42	1413231116	SATYAM SHIVAM	P
43	1413231120	SAVITA	P
44	1413231121	SHAGUFTA KHAN	P
45	1413231122	SHAMYANK	P
46	1413231125	SHIVAM JHA	P

47	1413231126	SHIVANGI MISHRA	P
48	1413231129	SHUBHAM NIGAM	P
49	1413231131	SHUBHAM SINGH	P
50	1413231133	SIDDHARTH RAI	P
51	1413231134	SMRITI SINGH	P
52	1413231135	SONALI NIRANJAN	P
53	1413231136	SUBHAM KUMAR	P
54	1413231138	SUMIT KUMAR TAGALA	P
55	1413231140	SWETANK MISHRA	A
56	1413231142	UPENDRA SINGH YADAV	P
57	1413231147	VAIBHAV RAJ	P
58	1413231148	VARTIKA TRIPATHI	P
59	1413231149	VATSAL KAUL	P
60	1413231150	VIKAL KUMAR	P
61	1413231151	VIKAS ANAND	P
62	1413240149	PULKIT SRIVASTAVA	P
63	1313231036	ASHUTOSH KUMAR	A
64	1413231002	AAQIB AHMAD WANI	P
65	1413231003	AAQUIB KHAN	P
66	1413231004	AARTI CHAUDHARY	P
67	1413231006	ABHISHEK PARASHAR	P
68	1413231008	ABHISHEK VERMA	P
69	1413231014	AKSHAY PRATAP	P
70	1413231015	ALOK SINGH	P
71	1413231016	AMEYA SINGH	A
72	1413231019	ANKITA SHRIVASTAVA	P
73	1413231021	ANNU SINGH	P
74	1413231026	ASHISH KUMAR SINGH	P
75	1413231027	ASHUTOSH CHANDRADHARI	P
76	1413231029	AVNISH SAXENA	P
77	1413231030	AYUSH SRIVASTAVA	P
78	1413231032	BHAVNA SINGH	P
79	1413231034	DEEPIKA VYAS	P
80	1413231035	DHARMENDRA KUMAR	A
81	1413231037	DHIRAJ PRAKASH TIWARI	P
82	1413231039	GARIMA SINGH	P
83	1413231041	HARSH KUMAR	P
84	1413231048	KAPIL SHARMA	P
85	1413231050	KM KIRAN YADAV	P
86	1413231051	KULDEEP KUMAR	P
87	1413231055	MAMTA NAG	P
88	1413231074	PRABHAT SINGH	A
89	1513231901	JAIVIR SHARMA	P
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91	1413231007	ABHISHEK SINGH	P
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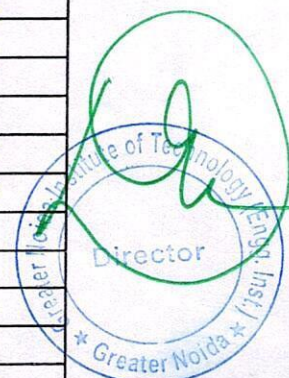
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100	1413231044	HIMALAYA BHARDWAJ	P
101	1413231045	HRITURAJ KUMAR	P
102	1413231057	MD HARUN RASID	P
103	1413231063	NAVNEET KUMAR	A
104	1413231064	NAVNEET SHARMA	P
105	1413231066	NIRBHAY RAGHAV	P
106	1413231067	NISHANT KUMAR	P
107	1413231073	PIYUSH KUMAR SINGH	P
108	1413231089	RAJNEESH KUMAR	P
109	1413231094	RAVINDRA KUMAR	P
110	1413231105	ROUSHAN RAJ	A
111	1413231107	SAGAR SINGH	P
112	1413231112	SANTOSH BHAGAT	P
113	1413231117	SATYENDRA KUMAR JHA	P
114	1413231118	SAURABH CHATTERJEE	P
115	1413231123	SHANTANU SHANKAR	P
116	1413231124	SHIKHA SINGH	P
117	1413231130	SHUBHAM SHUKLA	A
118	1413231132	SHWETA SINGH	P
119	1413231137	SUJEET KUMAR	P
120	1413231141	UPENDRA SINGH KARMIYAL	P
121	1413231143	UTKARSH KUMAR	A
122	1413231153	VIKRANT KUMAR	P
123	1413231155	VIPASHA RANA	P
124	1413231156	VIPIN KUMAR GUPTA	P
125	1413231157	VIR VIKRAM BHADUR SINGH	P
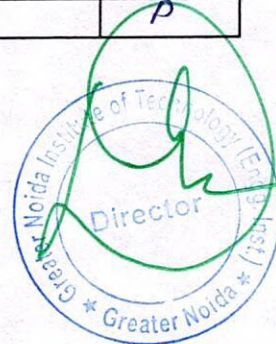
DEPARTMENT OF INFORMATION TECHNOLOGY

Ref: - No. GNIOT/IT/ODD/Events/02   Date: 23.11.2019

NOTICE

This is to inform the students that as per the academic calendar the department is organizing the events for the current semester, continuing the same practice you are all informed that an event is being organized, "Expert talk" ON THE TOPIC "GOOD RESEARCH & INNOVATION PRACTICES" is scheduled on 23.11.2019 from 3:15 - 5:00 PM.

The students are requested to present in full strength and take the maximum benefit of the expert talk.

Dr. Manoj Singhal

HOD-IT

(Approved by AICTE, Delhi & Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow)
♀ Plot No. 7, Knowledge Park-II, Greater Noida, Gautam Buddh Nagar, Uttar Pradesh-201310
☎ 0120-2328214/15/16 | 1800 274 6969 ✉ director@gniot.net.in ⊕ www.gniot.net.in

EXPERT TALK
ON

"GOOD RESEARCH & INNOVATION PRACTICES"

23 NOVEMBER 2019
(03:15 PM to 05:00 PM)

Organized by

INSTITUTION'S
INNOVATION
COUNCIL

GNIOT
Group of Institutions
Since 2001

Institution's Innovation Council

Greater Noida Institute of Technology (GNIOT)

(An Initiative of Ministry of Education, Govt. of India)
Knowledge park-II, Greater Noida– 201308
www.gniot.net.in

Report on "GOOD RESEARCH & INNOVATION PRACTICES"

Department of **Information Technology in association with Institution Innovation Cell (IIC)** has organized an Expert talk on **"Good Research and Innovation Practices" on** 23rd November, 2018 from 03:15 PM onwards. The aim of the talk is to improve process of innovation development in students. The session was given by Dr. Ankur Gupta, Dean R&D, IIMT UNIVERSITY MEERUT, and Dr. Anuranjan Mishra, Dean IIC, GNIOT Greater Noida.

Dr. Manoj Singhal, Head of the Department presented the bouquet to guests after the inauguration of the event Dr. Ankur Gupta delivered the wonderful session titled "The Good Research and Innovation Practices" for the Department of Information Technology, GNIOT on 23.11.2018. The coordinator of the event was Mr. Shiv Shankar Pal. Department of IT was grateful to him for helping in inviting such a dynamic personality to motivate our students for their involvement in research-based projects. He told the students as how the semester-based projects can be published as research papers. Dr. Anuranjan Mishra from Institute Innovation Cell, IIC, also motivated the students and informed various funding schemes under the banner of GOI, how to become Entrepreneur etc.

GREATER NOIDA INSTITUTE OF TECHNOLOGY, GREATER NOIDA

Attendance of Event "GOOD RESEARCH & INNOVATION PRACTICES"
(23.11.2019)

S. No.	Name of the Student	Year & Section	Attendence
1	ROHIT RAJ	2A	P
2	VARSHA KUMARI	2A	P
3	JULI KUMARI	2A	P
4	DEVANSHU TRIVEDI	2A	P
5	RAKSHIT KUMAR	2A	P
6	ADITYA MANI TRIPATHI	2A	P
7	PRASHANT RAWAT	2A	P
8	BHAVISHYA GUPTA	2A	P
9	ASHUTOSH SAXENA	2A	P
10	ALOK KUMAR	2A	P
11	IMRAN SAIFI	2A	A
12	MEHUL ANAND	2A	P
13	MD NADEEM HASAN	2A	A
14	NEHA KUMARI	2A	P
15	MEHUL DEWAN	2A	P
16	SHERYANSHU SANTOSH	2A	P
17	ANUPAM CHAUHAN	2A	P
18	JITENDRA BHARDWAJ	2A	A
19	KRITI BHARDWAJ	2A	P
20	ISHAN	2A	P
21	ONITKAR SHARMA	2A	P
22	SAURABH RAJ	2A	P
23	NISHA MASHAHARY	2A	P
24	SAVAN KUMAR	2A	P
25	SACHIN THAKUR	2A	P
26	NANDINI SHARMA	2A	P
27	NAVNEET KUMAR SHARMA	2A	
28	SHASHANK TRIPATHI	2A	P

S. No.	Name of the Student	Year & Section	Attendence
1	PRAKHAR AGGARWAL	2B	P
2	ALOK KUMAR MISHRA	2B	P
3	PARTH KAUSHIK	2B	P
4	RISHI MOHAN	2B	P
5	ASHMIT MUDGAL	2B	A
6	SYED SHAFAT ADIL	2B	P
7	SHUBHAM PACHAURI	2B	P
8	RICHA CHOUDHARY	2B	P
9	UTKARSH SINGH	2B	P
10	AMAN CHANDRA VERMA	2B	P
11	PUNIT KUMAR DIXIT	2B	P
12	VISHAL KUMAR	2B	P
13	SHUBHAM KUMAR	2B	P
14	SHIVAM PATHAK	2B	P
15	HIMANSHU KUMAR SING	2B	A
16	MAHIP BHATNAGAR	2B	P
17	SADAM HUSSAIN	2B	P
18	HARSHIT SAHAY	2B	P
19	ABHISHEK KUMAR	2B	P
20	SHUBHAM GUPTA	2B	P
21	AMAN YADAV	2B	P
22	MUGHIS QAMAR	2B	P
23	MD AMIR ALI	2B	P

Signature of HOD
Dr. Manoj Singhal

Director

GREATER NOIDA INSTITUTE OF TECHNOLOGY, GREATER NOIDA

Attendance of Event "GOOD RESEARCH & INNOVATION PRACTICES" (23.11.2019)

S. No.	Name of the Student	Year & Section	Attendence
1	DIKSHA KUMARI	3A	
2	AMBARISH KUMAR PANDEY	3A	
3	ARUN KUMAR ·	3A	
4	PAWAN KUMAR	3A	
5	TAHSEEN FATIMA	3A	
6	ADNAN AHMED	3A	
7	AMBER KUMAR	3A	
8	GAUTAM KUMAR SINGH	3A	
9	SHUBHAM KUMAR	3A	
10	SHUBHAM SHARMA	3A	
11	TARUN RAI	3A	
12	MOHD ALI	3A	
13	SONU KUMAR	3A	
14	LAKSHMAN KUMAR	3A	
15	PRABHAT KUMAR PANDEY	3A	
16	AMIT KUMAR TIWARI	3A	
17	SADIQUE AMIN	3A	
18	HAMID SARWAR	3A	
19	MOHIT KUMAR	3A	
20	MANOJ MISHRA	3A	
21	ANKIT KUMAR MISHRA	3A	
22	ROHIT KUMAR	3A	
23	MAJOLI SHIVANAND	3A	
24	MD ASFAND NOOR	3A	
25	AISHWARYA SHARMA	3A	
26	KUMAR SHASHI RANJAN	3A	
27	SHIV KUMAR	3A	
28	JAYESH RAJ	3A	
29	SWEETY RAI	3A	
30	SYED MD SHARIQUE	3A	

S. No.	Name of the Student	Year & Section	Attendence
1	AKASH AGRAWAL	3B	
2	PRASHANT SHEKHAR	3B	
3	MOHD ASIF	3B	
4	DEEPAK KUMAR MANDAL	3B	
5	AMRIT CHATURVEDI	3B	
6	ANUSHA PASTOR	3B	
7	ARUN BAGHEL	3B	
8	NEERAJ KUMAR	3B	
9	DIKSHA SAGWAL	3B	
10	PINTU KUMAR	3B	
11	SHARAD KUMAR	3B	
12	ABHISHEK CHAUHAN	3B	
13	DIPANKAR OJHA	3B	
14	ANKIT RAJ	3B	
15	SABA MUZAFFAR NADEEM	3B	
16	ASHISH CHOUDHARY	3B	
17	PIYUSH RATHORE	3B	
18	SALMAN	3B	
19	SHUBHAM KUMAR SINGH	3B	
20	KM NEHA RAWAT	3B	
21	IRFAN ALAM	3B	
22	MOH WAZID	3B	
23	ANURAG DHASMANA	3B	
24	SHIVAM PANDEY	3B	
25	SUMIT RAJ	3B	
26	SUSHMITA SINHA	3B	
27	SONAL GUPTA	3B	

Signature of HOD
Dr. Manoj Singhal

Director

## DEPARTMENT OF INFORMATION TECHNOLOGY

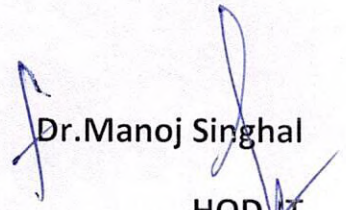Ref: - No. GNIOT/IT/EVEN/Events/03   Date: 21.11.2019

NOTICE

This is to inform the students that as per the academic calendar the department is organizing the events for the current semester, continuing the same practice you are all informed that an event is being organized, "EXPERT TALK " ON THE TOPIC " Motivational Session for Successful Entrepreneurs" is scheduled on 23.11.2019 from 3:15 - 5:00 PM.

The students are requested to present in full strength and take the maximum benefit of the expert talk.
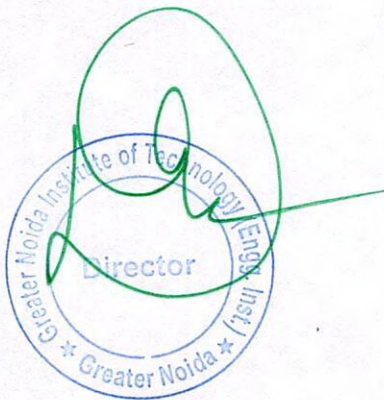
Dr. Manoj Singhal

HOD-IT

EXPERT TALK

On

"Motivational Session for Successful Entrepreneurs"

23 November 2019
(03:15 PM-05:00 PM Onwards)

Organized by

GNIOT
Since 2001

Department of Information Technology in Association with IIC
Greater Noida Institute of Technology (GNIOT)
(An Initiative of Ministry of Education, Govt. of India)
Knowledge park-II, Greater Noida– 201308
www.gniot.net.in

Director
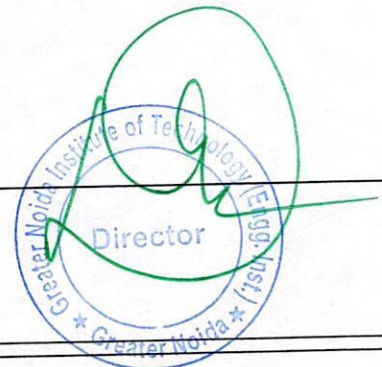
EXPERT TALK
On

"Motivational Session for Successful Entrepreneurs"

23 November 2019
(03:15 PM-05:00 PM Onwards)

PROGRAMME REPORT

Organized by

GNIOT
Since 2001

Department of Information Technology in Association with IIC
Greater Noida Institute ofTechnology (GNIOT)
(An Initiative of Ministry of Education, Govt. of India)
Knowledge park-II, Greater Noida– 201308
www.gniot.net.in
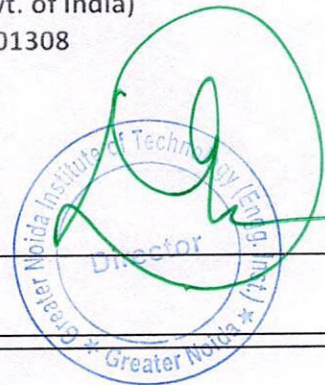
EVENT TITLE:

"Motivational Session for Successful Entrepreneurs"

PARTICIPANTS:

Second Year IT Engineering Students & Faculty members.

OBJECTIVES:

- Awareness about entrepreneurs.
- How to become successful entrepreneurs.
- informed various funding schemes under the banner of GOI,

Speaker of the Event: Mr. PRAMOOD KUMAR GUPTA

Profile of the Speaker

1. B. Tech, M. Tech, M.B.A.
2. **Senior System Engineer**:AKL Outsourcing Pvt. Ltd., Noida
3. **Senior Trainer**: iNurture Education Pvt. Ltd., Bangalore
4. **Assistant System Engineer**: TCS, Pune
5. **Certification**: - AZ-900,IBM certified IBM SEED Program, Dell Carnegie Certification of High Impact Presentation. Mission 10x Certified Trainer by Wipro.

Report

Department of **Information Technology in association with Institution Innovation Cell (IIC)** organized an Expert talk on **"Motivational Session for Successful Entrepreneurs"** on 23 November, 2019 from 03:15 PM onwards. The aim of the talkwas to improve process of innovation development and how to become successful entrepreneurs. The talk was given by Mr. Pramod Gupta, Senior Software Developer, Dr. Dheeraj Gupta, Director GNIOT, Dr. Anuranjan Mishra, Dean IIC, GNIOT Greater Noida.

Prof. Vikas Singhal, Head of the Department welcome all delegates and presented the bouquet to guests after the inauguration of the event Prof. Dr. Dheeraj Gupta delivered the wonderful
Speech and motivate to students for becoming a successful entrepreneur in continuation of speakers Dr. Anuranjan Mishra from Institute Innovation Cell, IIC, also motivated the students and informed various funding schemes under the banner of GOI, how to become Entrepreneur, after that Mr. Pramod Gupta,share the experience and gives the tips to become successful entrepreneur at the end of the event Dr. Anand Kumar Dohare, event coordinator vote of thanks to all participants and guests.

The Event was backed –up from the participant end with an interactive Question and Answer session. The session was very fruitful and interactive.
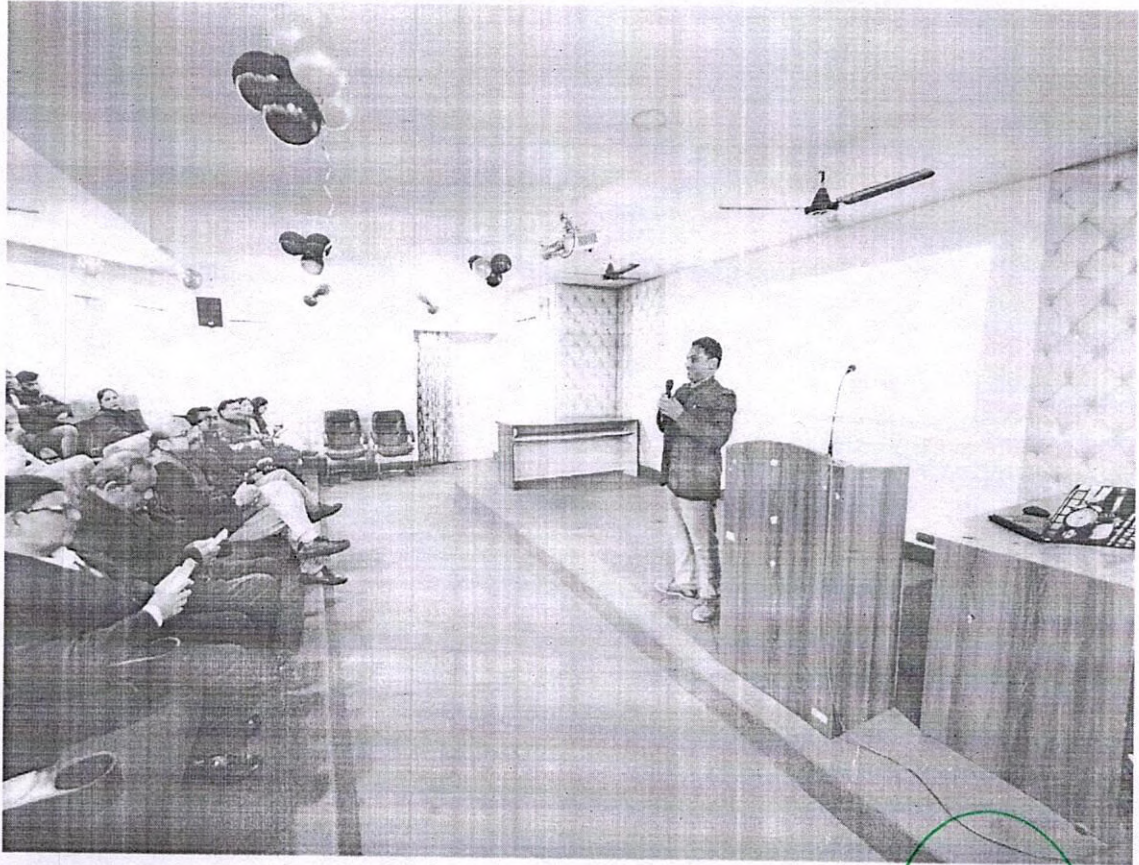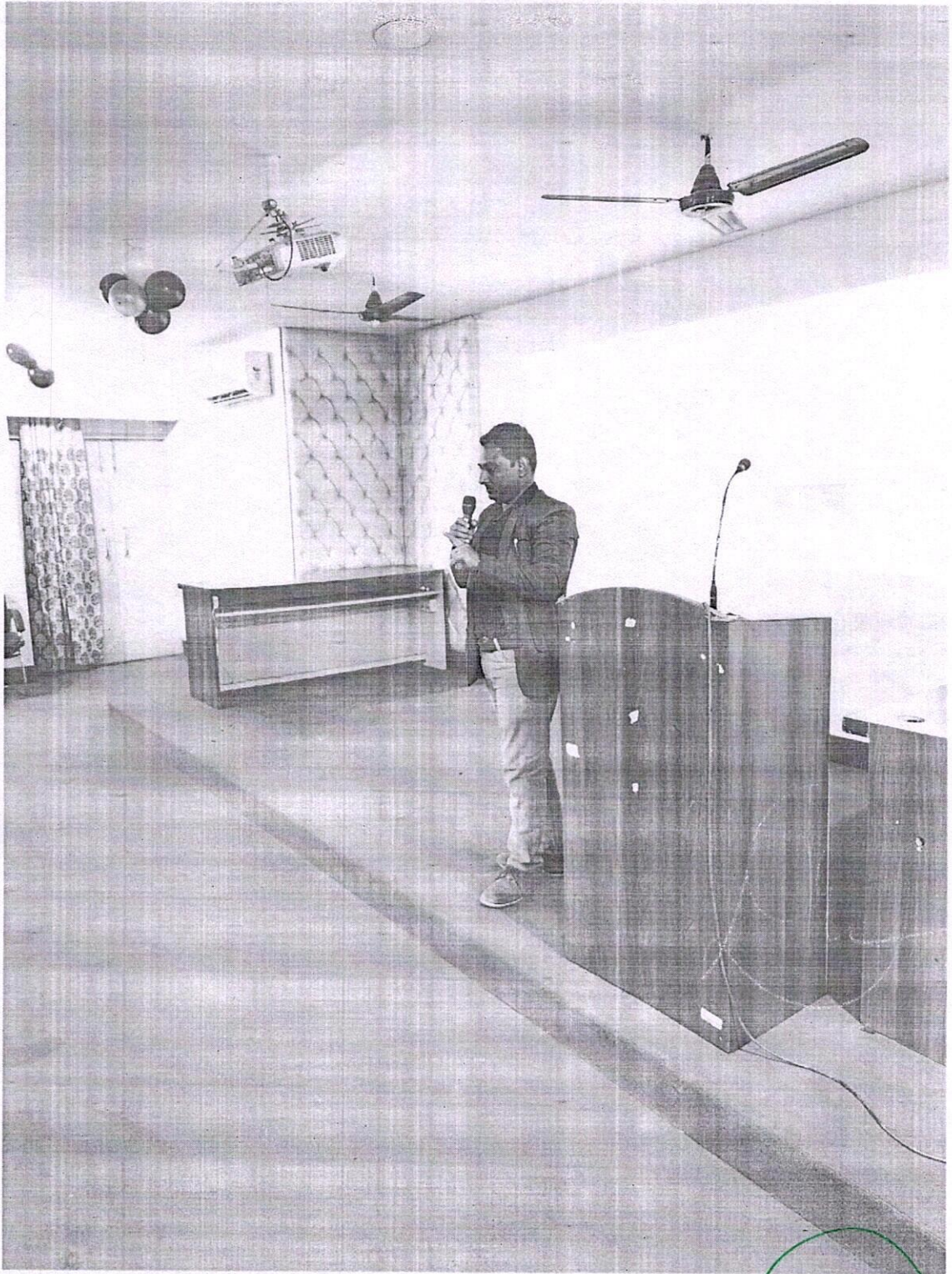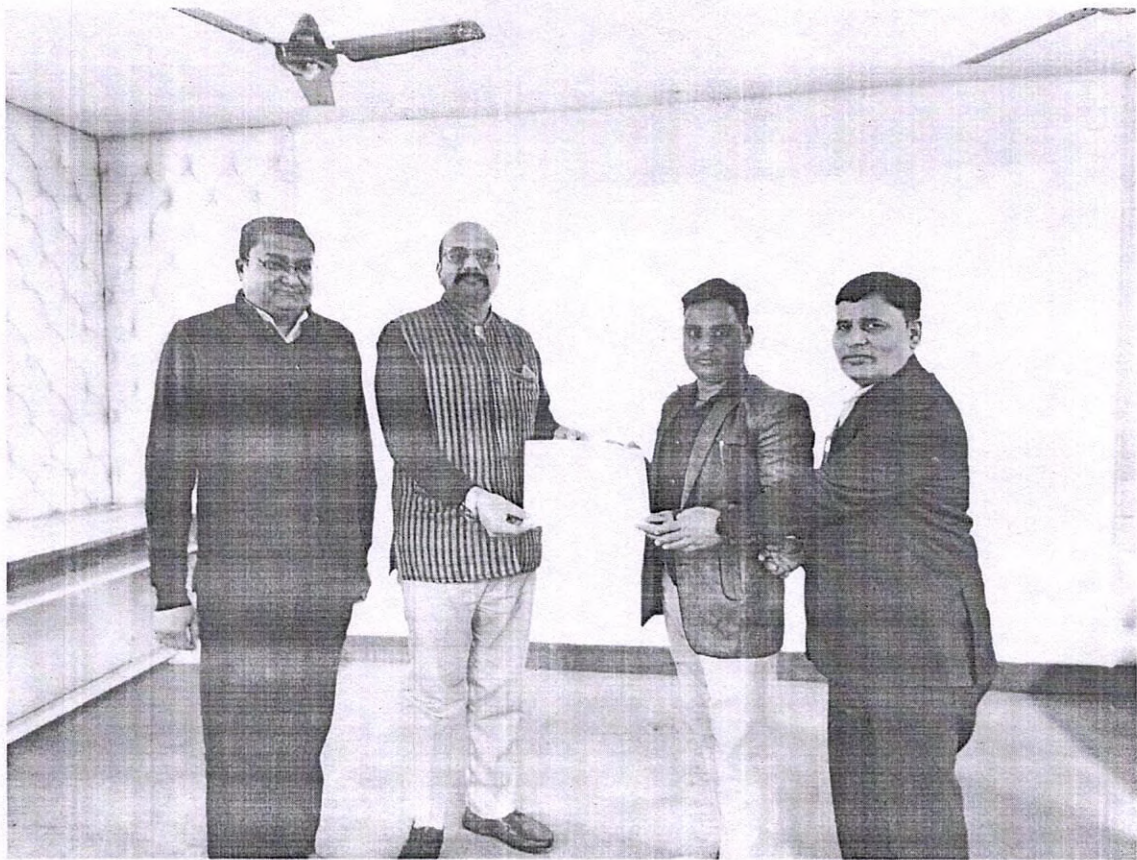
## The outcome of the Program

1. Students gained knowledge regardingentrepreneur.
2. Understand about various schemes of government for innovation.
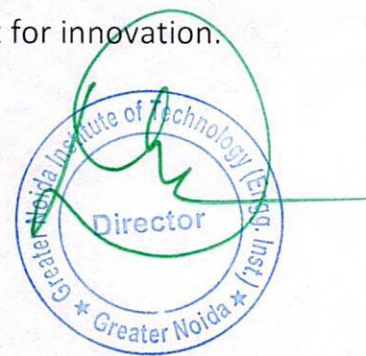
GREATER NOIDA INSTITUTE OF TECHNOLOGY, GREATER NOIDA

Attendance of Event "Motivational Session for Successful Entrepreneurs" (23.11.2019)

S. No.	Name of the Student	Year & Section	Attendance	S. No.	Name of the Student	Year & Section	Attendance
1	ROHIT RAJ	2A	P	1	PRAKHAR AGGARWAL	2B	P
2	VARSHA KUMARI	2A	P	2	ALOK KUMAR MISHRA	2B	P
3	JULI KUMARI	2A	A	3	PARTH KAUSHIK	2B	A
4	DEVANSHU TRIVEDI	2A	A	4	RISHI MOHAN	2B	A
5	RAKSHIT KUMAR	2A	P	5	ASHMIT MUDGAL	2B	P
6	ADITYA MANI TRIPATHI	2A	P	6	SYED SHAFAT ADIL	2B	P
7	PRASHANT RAWAT	2A	P	7	SHUBHAM PACHAURI	2B	P
8	BHAVISHYA GUPTA	2A	P	8	RICHA CHOUDHARY	2B	P
9	ASHUTOSH SAXENA	2A	P	9	UTKARSH SINGH	2B	P
10	ALOK KUMAR	2A	A	10	AMAN CHANDRA VERMA	2B	P
11	IMRAN SAIFI	2A	P	11	PUNIT KUMAR DIXIT	2B	A
12	MEHUL ANAND	2A	A	12	VISHAL KUMAR	2B	A
13	MD NADEEM HASAN	2A	P	13	SHUBHAM KUMAR	2B	A
14	NEHA KUMARI	2A	P	14	SHIVAM PATHAK	2B	P
15	MEHUL DEWAN	2A	P	15	HIMANSHU KUMAR SING	2B	P
16	SHERYANSHU SANTOSH	2A	P	16	MAHIP BHATNAGAR	2B	P
17	ANUPAM CHAUHAN	2A	P	17	SADAM HUSSAIN	2B	P
18	JITENDRA BHARDWAJ	2A	P	18	HARSHIT SAHAY	2B	P
19	KRITI BHARDWAJ	2A	P	19	ABHISHEK KUMAR	2B	P
20	ISHAN	2A	P	20	SHUBHAM GUPTA	2B	P
21	ONITKAR SHARMA	2A	P	21	AMAN YADAV	2B	P
22	SAURABH RAJ	2A	P	22	MUGHIS QAMAR	2B	P
23	NISHA MASHAHARY	2A	P	23	MD AMIR ALI	2B	P
24	SAVAN KUMAR	2A	P				
25	SACHIN THAKUR	2A	P				
26	NANDINI SHARMA	2A	P				
27	NAVNEET KUMAR SHARM	2A	P				
28	SHASHANK TRIPATHI	2A	P				

Signature of HOD
Dr. Manoj Singhal

GNIOT

ग्रेटर नोएडा इंस्टीट्यूट ऑफ टेक्नोलॉजी (इंजीनियरिंग इंस्टीट्यूट)
GREATER NOIDA INSTITUTE OF TECHNOLOGY (Engg. Institute)
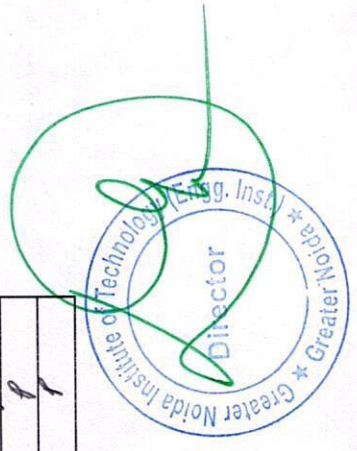
DEPARTMENT OF INFORMATION TECHNOLOGY

Ref: - No. GNIOT/IT/Even/Events/04   Date: 18.11.2019

NOTICE

This is to inform the students that as per the academic calendar the department is organizing the events for the current semester, continuing the same practice you are all informed that an event is being organized; Workshop "Python" is scheduled on 21.11.2019 from 11:00 AM - 1:00 PM.

The students are requested to present in full strength and take the maximum benefit of the Workshop.
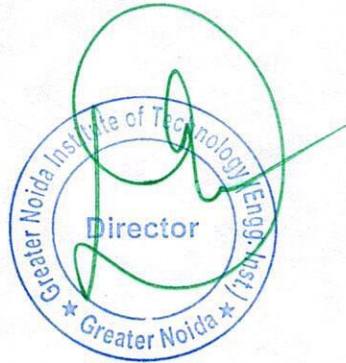
Dr.Manoj Singhal

HOD-IT

*Workshop
On*

"Python"

*21 NOV2019
(11:00 AM to 12:00 Noon)*

PROGRAMME REPORT

*Organized by
Information Technology*

INSTITUTION'S
INNOVATION
COUNCIL
Ministry of Education Initiative

GNIOT
Group of Institutions
Since 2001

Institution's Innovation Council

Greater Noida Institute of

Technology (Engg.Institute)
(An Initiative of Ministry of Education, Govt. of India)
Knowledge park-II, Greater Noida– 201308
www.gniot.net.in
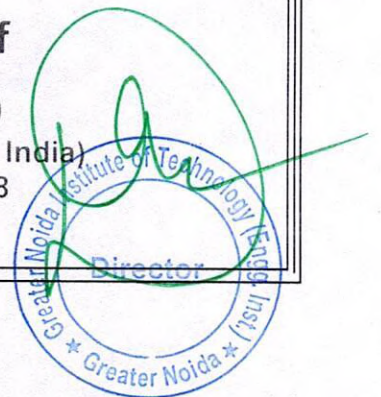
WORKSHOP ON PYTHON

(21st November 2019)

A One day workshop has been conducted on 21st November 2019 on Python, organized by Department of Information Technology, GNIOT. The workshop was conducted in collaboration with Aspirevision Tech Education Pvt. Ltd. Mr. Anil Sonkar from Aspirevision Tech Education Pvt ltd, has taken a session on Implementation and Application of Python.

He delivered the session on Web and Internet Development, Frameworks and Advanced Content Management Systems. The workshop has been attended by the third year and Second year students of Information Technology.

He introduced about the Frameworks like: Django, Pyramid, Plone, Django CMS etc.

The main goal of organising the workshop was to learn developing desktop GUI applications, websites and web applications.
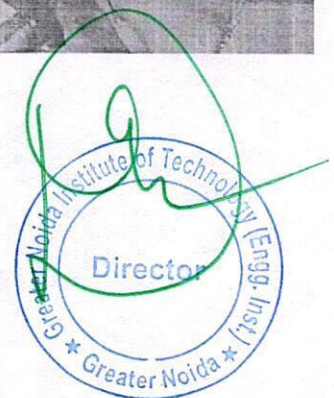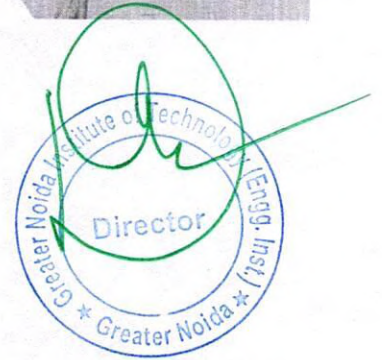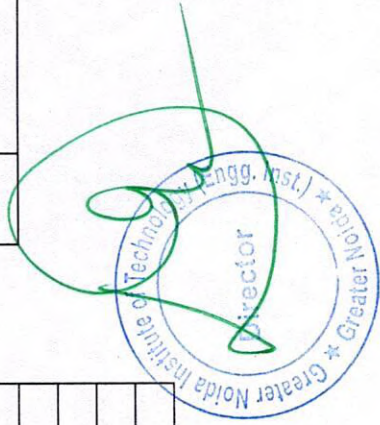
GREATER NOIDA INSTITUTE OF TECHNOLOGY, GREATER NOIDA

workshop (21.11.2019)

S. No.	Name of the Student	Year &	S. No.	Name of the Student	Year &
1	HIMANSHU DUA	3A	1	RICHA BHARDWAJ	3B
2	UDAY PRATAP	3A	2	SANJEEV KUMAR	3B
3	ABHISHEK KUMAR	3A	3	SANSKRITA KUMARI	3B
4	ABHISHEK TYAGI	3A	4	SANYAM KHAZANCHI	3B
5	AISHWARYE GIRI	3A	5	SAURABH AHLAWAT	3B
6	AJAYDEEP SINGH	3A	6	SHAILENDRA KUMAR	3B
7	ALFISHA JAFRI	3A	7	SHIVAM SINGH	3B
8	ANSHIKA GUPTA	3A	8	SHIVAM SRIVASTAVA	3B
9	APURV CHAUDHARY	3A	9	SHREYA SINGH	3B
10	ASHWANI KUMAR SRIVASTAVA	3A	10	SHUBHAM GUPTA	3B
11	DEEPAK MISHRA	3A	11	SHUBHANGI SAINI	3B
12	DIVYANSHU SHUKLA	3A	12	SIMRAN CHOUDHARY	3B
13	DURGESH SRIVASTAV	3A	13	SRISHTI KATHURIA	3B
14	DUSHYANT SHARMA	3A	14	SURABHI TRIPATHI	3B
15	EKANSH SINGH	3A	15	SURAJ MAURYA	3B
16	ETU GUPTA	3A	16	TANUJ SHARMA	3B
17	KRISHAN PRATAP SINGH	3A	17	UTKARSH VARSHNEY	3B
18	KUMAR ANIKET	3A	18	VARTIKA MISHRA	3B
19	KUMAR UJJAWAL	3A	19	VASU DAGRAS	3B
20	KUNAL BIJLANI	3A	20	VIKAS SINGH	3B
21	LALIT KUMAR	3A			
22	MOHD SHAMEEM	3A			
23	MOHIT KUMAR	3A			
24	MOHIT TAYAL	3A			
25	NAVYA	3A			
26	NISHANT KUMAR SINGH	3A			
27	PRASHANT VERMA	3A			
28	PRERNA SHARMA	3A			
29	PRINCE MISHRA	3A			
30	PUSHPENDRA SINGH LODHI				

Signature of HOD
Dr.Manoj Singhal

GREATER NOIDA INSTITUTE OF TECHNOLOGY, GREATER NOIDA

workshop (21.11.2019)

S. No.	Name of the Student	Year & Section	S. No.	Name of the Student	Year & Section
1	Shiv Kumar	2A	1	Srikant	2B
2	Abhishek Anand	2A	2	Shivam Kumar	2B
3	Bhavya Gupta	2A	3	Ankur Nigam	2B
4	Deepak kumar	2A	4	Sonal Gupta	2B
5	Nausheen Siddiqui	2A	5	Smriti Kumari	2B
6	Aishwarya Sharma	2A	6	Neha Sharma	2B
7	Shruti Kaishwar	2A	7	Amrit Chaturvedi	2B
8	Mansi Agrahari	2A	8	Ankit Raj	2B
9	Abdul Quadir	2A	9	Ranjeet Singh Bhadauriya	2B
10	Mohd. Asif	2A	10	Pintu	2B
11	Asif Chaudhary	2A	11	Alok Kumar	2B
12	Mohd. Ali	2A	12	Ashish Chaudhary	2B
13	Mohd. Wazid	2A	13	Girish Kumar Singh	2B
14	Irfan Alam	2A	14	Abi Kumar	2B
15	Piyush Rathore	2A	15	Sushmita Sinha	2B
16	Mohd. Sakir Khan	2A	16	Sunny Kumar	2B
17	Harsh Thakur	2A	17	Sumit Raj	2B
18	Arun Kumar	2A	18	Rohit Kumar	2B
19	Mohd. Asfand Noor	2A	19	Shubham Kumar	2B
20	Akash Malik	2A	20	Shivangi Kumari	2B
21	Samad	2A	21	Sweety Rai	2B
22	S. Gokul	2A	22	Lakshman Kumar	2B
23	Ambarish Kumar Pandey	2A	23	Jonty Singh	2B
24	Jash Ghosh	2A	24	Amit Kumar Tiwari	2B
25	Srikant				
26	Shivam Kumar				
27	Ankur Nigam			Signature of HOD	
28	Sonal Gupta			Dr.Manoj Singhal	
29	Smriti Kumari				

DEPARTMENT OF INFORMATION TECHNOLOGY

Ref: - No. GNIOT/IT/Even/Events/02   Date: 21.08.2019

NOTICE

This is to inform the students that as per the academic calendar the department is organizing the events for the current semester, continuing the same practice you are all informed that an event is being organized, "Developing Online Repository of Start-ups Developed / incubated and Way Forward Plan" is scheduled on 23.08.2019 from 11:00 AM - 1:00 PM.

The students are requested to present in full strength and take the maximum benefit of the expert talk.
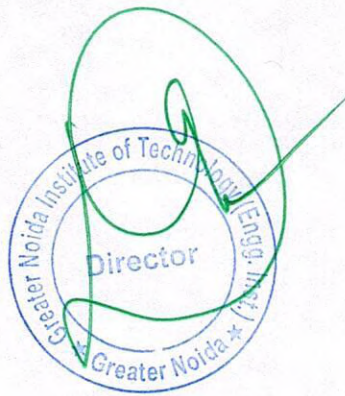
Dr.Manoj Singhal

HOD-IT

EXPERT TALK
on

"Developing Online Repository of Start-ups Developed / incubated and Way Forward Plan"

23 August 2019
(11:00 AM to 1:00PM)

Organized by

INSTITUTION'S
INNOVATION
COUNCIL

GNIOT

Institution's Innovation Council

Greater Noida Institute Of
Technology (GNIOT)

(An Initiative of Ministry of Education, Govt. of India)
Knowledge park-II, Greater Noida– 201308
www.gniot.net.in

EXPERT TALK
on

"Developing Online Repository of Start-ups Developed / incubated and Way Forward Plan"

23 August 2019
(11:00 AM to 1:00PM)

PROGRAMME REPORT

Organized by

INSTITUTION'S
INNOVATION
COUNCIL

GNIOT
Group of Institutions
Since 2001

Institution's Innovation Council

Greater Noida Institute of Technology (GNIOT)

(An Initiative of Ministry of Education, Govt. of India)
Knowledge park-II, Greater Noida– 201308
www.gniot.net.in

COURSE No. & TITLE:

* Developing Online Repository of Start-ups Developed / incubated and Way Forward Plan

PARTICIPANTS:

All IT Engineering Students & Faculty members

OBJECTIVES:

The underline purpose of this event was to provide engineering students with a perspective of entrepreneurship. How these students could use their technical skills in building a new idea.

Expert:

Mr. Shibananda Dash

* The resource person of this session was Mr. Shibananda Dash Chief Executive Officer (CEO) NITJ TBI.

Profile of the Expert

Shibananda Dash graduated from NIT Rourkela. He had two management degrees in Entrepreneurship and International business. He is the gold medalist at IIM Kashipur and worked as the CEO of IIM Kashipur for 3 yrs before joining NIT Jalandhar. Mr. Dash has a total 15 years of experience. He is a dropout of Texas A&M University and am a published writer. His first novel was Never Apart. His hobby is quizzing and was the runner up in Tata Crucible Regional Business quiz held in Dehradun.
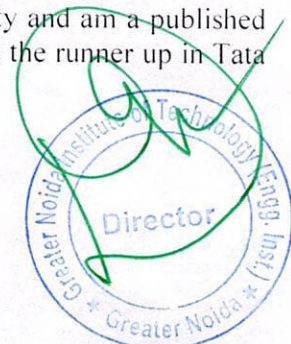
Report

"Every start-up has a chance to change the world, by bringing not just a new product, but an entirely new institution into existence"
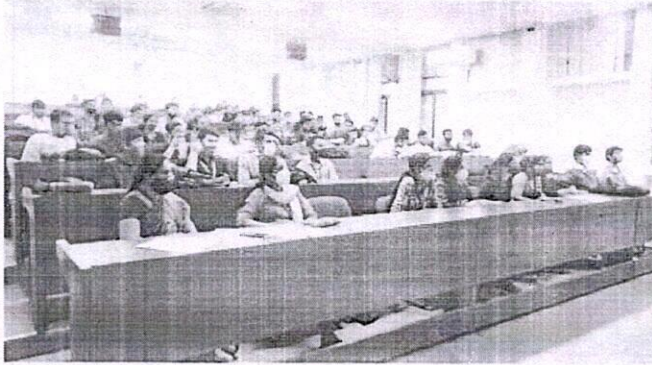
Department of Information Technology is organized a session on "Developing Online Repository of Start-ups Developed/incubated and Way forward Plan" in association with Institute's Innovation Council (IIC) on 23rd August,2019 from 11:00 am to 1:00 pm.

The resource person of this session was Mr. Shibananda Dash Chief Executive Officer (CEO) NITJ TBI. Mr. Shibananda is the gold medalist at IIM Kashipur and worked as the CEO of IIM Kashipur for 3 yrs before joining NIT Jalandhar. He has a dropout of Texas A&M University and is a published writer.

The objective of this webinar is to help the students to incubate the idea to promote and Develop Online Repository of new technology/ knowledge/ innovation-based startups.

Dr.Manoj Singhal, HoD-IT welcomed the guest and addressed the students. Dr.Manoj Singhal also proposed a Vote of thanks to the Management for their unconditional support and to Director sir for being always supportive and spreading the light of Knowledge.

Mr. Shibananda Dash explained that Developing Online repositories of Start-ups Developed/Incubated and Way Forward Plan are a new breed of services and software, still in their nascence. The technology is constantly changing and new information on building and running these services is published all the time. The information is meant to help young minds sort through this sea of information and all the requirements to get started with the startup.

The Event was backed –up from the participant end with an interactive Question and Answer session. The session was very Intellectual, fruitful and Interactive.
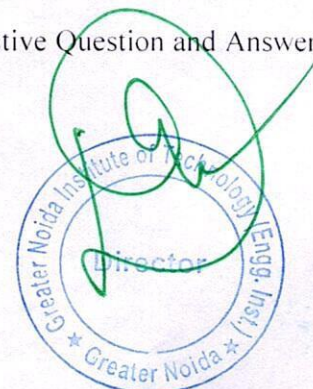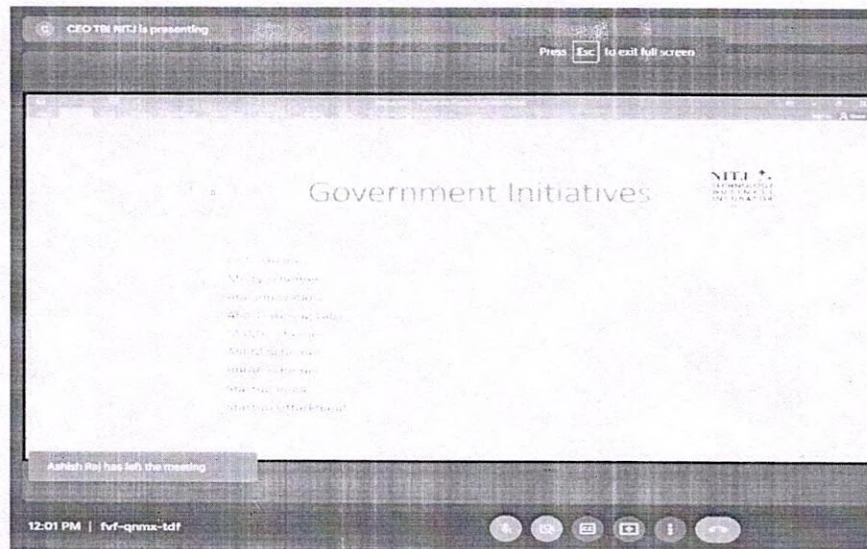
The anchor of the session was Ms. Deepali Gaur, IT 3rd Year Student. The program was concluded by vote of Thanks by Ms.Shipra srivastav, Assistant Professor IT. The session was attended by more than 65 students and all faculty members of IT.

Outcome of the Program

- Adapting lifelong learning of self-employment.
- Educating the students about the pivotal role of presenting their ideas in front of other students.
- Imparting knowledge oriented towards the creation of startups by the means of education.
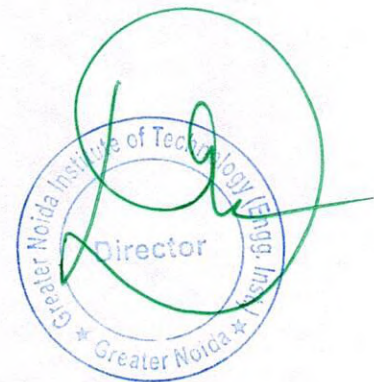
GREATER NOIDA INSTITUTE OF TECHNOLOGY, GREATER NOIDA

Attendance of Developing Online Repository of Start-ups Developed/Incubated and Way Forward Plan (23.08.2019)

S. No.	Name of the Student	Year & Section	Attendance
1	Shiv Kumar	2A	P
2	Abhishek Anand	2A	P
3	Bhavya Gupta	2A	P
4	Deepak kumar	2A	P
5	Nausheen Siddiqui	2A	A
6	Aishwarya Sharma	2A	P
7	Shruti Kaishwar	2A	P
8	Mansi Agrahari	2A	A
9	Abdul Quadir	2A	A
10	Mohd. Asif	2A	P
11	Asif Chaudhary	2A	P
12	Mohd. Ali	2A	P
13	Mohd. Wazid	2A	A
14	Irfan Alam	2A	A
15	Piyush Rathore	2A	P
16	Mohd. Sakir Khan	2A	P
17	Harsh Thakur	2A	P
18	Arun Kumar	2A	A
19	Mohd. Asfand Noor	2A	P
20	Akash Malik	2A	P
21	Samad	2A	P
22	S. Gokul	2A	A
23	Ambarish Kumar Pandey	2A	A
24	Jash Ghosh	2A	P
25	Srikant	2A	P
26	Shivam Kumar	2A	P
27	Ankur Nigam	2A	P
28	Sonal Gupta	2A	P
29	Smriti Kumari	2A	P

S. No.	Name of the Student	Year & Section	Attendance
1	Srikant	2B	P
2	Shivam Kumar	2B	P
3	Ankur Nigam	2B	P
4	Sonal Gupta	2B	A
5	Smriti Kumari	2B	P
6	Neha Sharma	2B	P
7	Amrit Chaturvedi	2B	P
8	Ankit Raj	2B	P
9	Ranjeet Singh Bhadauriya	2B	P
10	Pintu	2B	P
11	Alok Kumar	2B	P
12	Ashish Chaudhary	2B	A
13	Girish Kumar Singh	2B	A
14	Abi Kumar	2B	P
15	Sushmita Sinha	2B	P
16	Sunny Kumar	2B	P
17	Sumit Raj	2B	P
18	Rohit Kumar	2B	A
19	Shubham Kumar	2B	P
20	Shivangi Kumari	2B	P
21	Sweety Rai	2B	P
22	Lakshman Kumar	2B	P
23	Jonty Singh	2B	P
24	Amit Kumar Tiwari	2B	P

Signature of HOD
Dr.Manoj Singhal

Director

GREATER NOIDA INSTITUTE OF TECHNOLOGY, GREATER NOIDA

Attendance of Developing Online Repository of Start-ups Developed/Incubated and Way Forward Plan (23.08.2019)

S. No.	Name of the Student	Year &	Attendance		S. No.	Name of the Student	Year &	Attendance
1	HIMANSHU DUA	3A	P		1	RICHA BHARDWAJ	3B	P
2	UDAY PRATAP	3A	P		2	SANJEEV KUMAR	3B	P
3	ABHISHEK KUMAR	3A	P		3	SANSKRITA KUMARI	3B	P
4	ABHISHEK TYAGI	3A	P		4	SANYAM KHAZANCHI	3B	P
5	AISHWARYE GIRI	3A	A		5	SAURABH AHLAWAT	3B	P
6	AJAYDEEP SINGH	3A	P		6	SHAILENDRA KUMAR	3B	P
7	ALFISHA JAFRI	3A	P		7	SHIVAM SINGH	3B	P
8	ANSHIKA GUPTA	3A	P		8	SHIVAM SRIVASTAVA	3B	P
9	APURV CHAUDHARY	3A	P		9	SHREYA SINGH	3B	P
10	ASHWANI KUMAR SRIVASTAVA	3A	P		10	SHUBHAM GUPTA	3B	P
11	DEEPAK MISHRA	3A	P		11	SHUBHANGI SAINI	3B	P
12	DIVYANSHU SHUKLA	3A	A		12	SIMRAN CHOUDHARY	3B	A
13	DURGESH SRIVASTAV	3A	P		13	SRISHTI KATHURIA	3B	P
14	DUSHYANT SHARMA	3A	P		14	SURABHI TRIPATHI	3B	P
15	EKANSH SINGH	3A	P		15	SURAJ MAURYA	3B	P
16	ETU GUPTA	3A	A		16	TANUJ SHARMA	3B	A
17	KRISHAN PRATAP SINGH	3A	P		17	UTKARSH VARSHNEY	3B	P
18	KUMAR ANIKET	3A	P		18	VARTIKA MISHRA	3B	P
19	KUMAR UJJAWAL	3A	P		19	VASU DAGRAS	3B	P
20	KUNAL BIJLANI	3A	P		20	VIKAS SINGH	3B	P
21	LALIT KUMAR	3A	A					
22	MOHD SHAMEEM	3A	P					
23	MOHIT KUMAR	3A	A					
24	MOHIT TAYAL	3A	P					
25	NAVYA	3A	A					
26	NISHANT KUMAR SINGH	3A	P					
27	PRASHANT VERMA	3A	P					
28	PRERNA SHARMA	3A	P					
29	PRINCE MISHRA	3A	P					
30	PUSHPENDRA SINGH LODHI	3A	P					
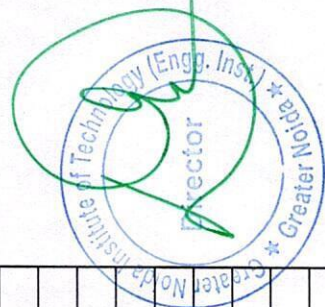
Signature of HOD
Dr.Manoj Singhal

GNIOT
ENGG. INSTITUTE

ग्रेटर नोएडा इंस्टीट्यूट ऑफ टेक्नोलॉजी (इंजीनियरिंग इंस्टीट्यूट)
GREATER NOIDA INSTITUTE OF TECHNOLOGY (Engg. Institute)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Ref: - No. GNIOT/CSE/ODD/Events/01　　　　　　　　　　　Date: 16.09.2019

NOTICE

This is to inform all the students that as per the academic calendar the department are organizing seminar for the current semester, continuing the same practice you all are informed that a seminar is being organized on "big data analytics" on 18th September 2019.

The students are requested to Present in full strength and take the maximum benefits of the workshop

HOD-CSE
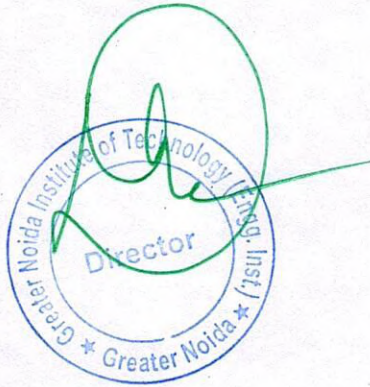
Seminar
on

"Big Data Analytics"

18ᵗʰ Sep, 2019
(11:00 AM to 12:30 PM)

Organized by
Department of Computer Science and Engineering

INSTITUTION'S INNOVATION COUNCIL
(Ministry of Education Initiative)

GNIOT
Group of Institutions
Since 2001

Institution's Innovation Council
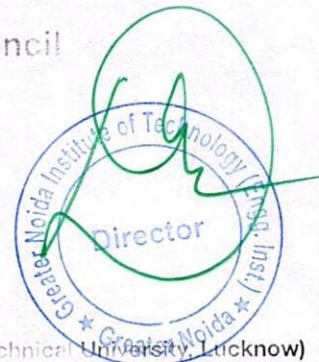
SNo.	**Univ.Roll	**Class	**Name	Attendance for Event
1	1713210081	CS 2 Year	MOHD ARIF	
2	1813210104	CS 2 Year	NIKITA SINHA	
3	1813210080	CS 2 Year	MANAS TRIPATHI	
4	1813210090	CS 2 Year	MD SHAHBAZ KARIM	P
5	1813210087	CS 2 Year	MD KASHF AHMAR	P
6	1813210114	CS 2 Year	PULKIT AGGARWAL	
7	1813210091	CS 2 Year	MD SHAHNAWAZ HAIDER	
8	1813210046	CS 2 Year	BHANU BELWAL	
9	1813210146	CS 2 Year	SHIKHA YADAV	P.
10	1813210022	CS 2 Year	ANCHAL SHARMA	P
11	1813210020	CS 2 Year	AMAN KUMAR	P
12	1813210099	CS 2 Year	MUHAMMAD TOUSIF ANWER	
13	1813210144	CS 2 Year	SHARDUL GAUTAM	P
14	1813210174	CS 2 Year	VAIBHAV MATHUR	
15	1813210094	CS 2 Year	MOHIT KUMAR	
16	1813210175	CS 2 Year	VAIBHAV SINGH MEHTA	
17	1813210027	CS 2 Year	ANSHIKA KUMARI	P
18	1813210126	CS 2 Year	RITWIK RISHU	P
19	1813210100	CS 2 Year	MUSKAN RASTOGI	
20	1813213081	CS 2 Year	SHIVAM DUTT SHARMA	
21	1813210137	CS 2 Year	SANGEET SACHDEVA	
22	1813210095	CS 2 Year	MONIKA KUMARI	
23	1813210116	CS 2 Year	RAHUL SHARMA	
24	1813210134	CS 2 Year	SAINATH M	P.
25	1813210023	CS 2 Year	ANKiT TRIPATHI	P
26	1813210082	CS 2 Year	MANISH SOLANKI	
27	1813210088	CS 2 Year	MD MOKARRAM MANSOOR	
28	1813210068	CS 2 Year	JATIN SINGH CHAUHAN	P
29	1813210019	CS 2 Year	ALI AKHTAR ANSARI	
30	1813210008	CS 2 Year	ABHISHEK PANDEY	
31	1813210131	CS 2 Year	SACHIN	
32	1813210058	CS 2 Year	HARI MOHAN PATHAK	P
33	1813210133	CS 2 Year	SAIF ALI	
34	1813210122	CS 2 Year	RICHA MISHRA	
35	1813210153	CS 2 Year	SRISHTI KUMARi	P.
36	1813210151	CS 2 Year	SHIVANSH PANDEY	
37	1813213048	CS 2 Year	MANOJ KUMAR	
38	1813210007	CS 2 Year	ABHISHEK	
39	1813210125	CS 2 Year	RISHABH PANDEY	P
40	1813210048	CS 2 Year	BHARTI KUMARI	P
41	1813210135	CS 2 Year	SAJAL SAHU	
42	1813210123	CS 2 Year	RISHABH ATTRI	
43	1813210120	CS 2 Year	RAJVEER SINGH	
44	1813210141	CS 2 Year	SAURABH RAI	
45	1813210011	CS 2 Year	ABHISHEK KUMAR SINGH	
46	1813210115	CS 2 Year	RAGINI	P
47	1813210081	CS 2 Year	MANISH CHAMOLI	
48	1813210052	CS 2 Year	DEVESH PANDEY	P.
49	1813210054	CS 2 Year	DHEERAJ	P.
50	1813210028	CS 2 Year	ANURAG SHARMA	P
51	1813210102	CS 2 Year	NEHAL RAZA ANSARI	
52	1813210026	CS 2 Year	ANKUSH BAGHEL	P
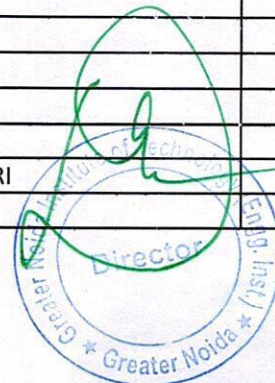
53	1713210038	CS 3 Year	BRIJESH SINGH NEGI	
54	1713210147	CS 3 Year	SHIKHA SINGH	
55	1713210114	CS 3 Year	RAHUL MOHARANA	
56	1713210060	CS 3 Year	ISHITA SINGH	P
57	1713210120	CS 3 Year	RISHABH SINGH	P
58	1713210901	CS 3 Year	AKASH SIWACH	P
59	1713210046	CS 3 Year	DEEPAK KUMAR MAURYA	P
60	1713210127	CS 3 Year	ROSHNI SRIVASTAV	P
61	1713210006	CS 3 Year	ABHISHEK RAI	P
62	1713210055	CS 3 Year	GOURAV VERMA	
63	1713210086	CS 3 Year	NAINA RAWAT	
64	1713210033	CS 3 Year	ATUL PRAJAPATI	P
65	1713210152	CS 3 Year	SHREYA VERMA	
66	1713210064	CS 3 Year	JYOTI YADAV	
67	1713210149	CS 3 Year	SHIVANAND SHARMA	
68	1713210049	CS 3 Year	DOLLY	P
69	1713210027	CS 3 Year	ANSH RANJAN	
70	1713210178	CS 3 Year	VIKAS MISHRA	
71	1713210057	CS 3 Year	HAKIM TAI	P
72	1713210005	CS 3 Year	ABHISHEK KUMAR AGNIHOTRI	
73	1713210099	CS 3 Year	NITIN PANDEY	
74	1713210132	CS 3 Year	SAFIYA KHAN	
75	1713210128	CS 3 Year	RUDRA PRATAP SINGH	P
76	1713210084	CS 3 Year	MOHD.NASIR	
77	1713210134	CS 3 Year	SAKSHI SHUKLA	
78	1713210041	CS 3 Year	CHIRAG VARSHNEY	P
79	1713210052	CS 3 Year	GAURAV MISHRA	P
80	1713210119	CS 3 Year	RISHABH RANA	
81	1713210067	CS 3 Year	SWETA SHEKHAVAT	
82	1713210174	CS 3 Year	VATSAL TYAGI	P
83	1713210123	CS 3 Year	RIYA PATEL	P
84	1713210009	CS 3 Year	ADARSH KUMAR RAI	P
85	1713210176	CS 3 Year	VIDHI SHARMA	P
86	1713210115	CS 3 Year	RAJ BALHARA	
87	1713210022	CS 3 Year	AMIT KUMAR	P
88	1713210031	CS 3 Year	ASHUTOSH RANA	
89	1713210001	CS 3 Year	AAKASH RAWAT	
90	1713210065	CS 3 Year	KAJAL TIWARI	
91	1713210071	CS 3 Year	KRITI	P
92	1713210040	CS 3 Year	CHANDRA PRATAP NARAYAN SINGH	P
93	1713210166	CS 3 Year	SUNIL GUPTA	
94	1713210017	CS 3 Year	AKSHAY SHARMA	
95	1713210171	CS 3 Year	TARUN MITTAL	P
96	1713210083	CS 3 Year	MOHD KAIF	
97	1713210063	CS 3 Year	JITIN PATEL	
98	1713210035	CS 3 Year	AYUSH GUPTA	P
99	1713210140	CS 3 Year	SHADAB QURAISHI	P
100	1713210097	CS 3 Year	NISHANT SINGH	P
101	1713210070	CS 3 Year	KRISHNA KUMARI	P
102	1713210080	CS 3 Year	MOHAMMAD SAMAD UL HAQUE	
103	1713210072	CS 3 Year	KUNAL NAILWAL	
104	1713210007	CS 3 Year	ABHISHEK SHEKHAR	
105	1713210122	CS 3 Year	RIYA NIGAM	P
106	1713210023	CS 3 Year	ANJANI KUMAR	P
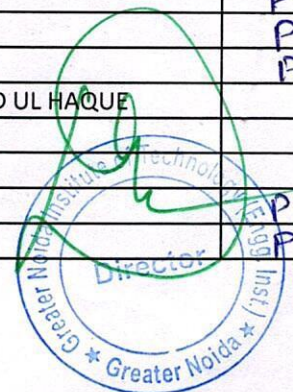
107	1613210034	CS 4 Year	ANJALI KUMARI	P
108	1613210096	CS 4 Year	MD IRFAN RAZA	
109	1613210100	CS 4 Year	MOHAMMAD NAZIM	P
110	1613210093	CS 4 Year	MD ABSAR QURAISHI	
111	1613210080	CS 4 Year	KESHAV KUMAR GUPTA	
112	1613210021	CS 4 Year	AKSHAY KUMAR	
113	1613210038	CS 4 Year	ANKIT KUMAR	P
114	0	CS 4 Year	PRIYANKA	
115	1613210084	CS 4 Year	KUNAL GAUTAM	P
116	1613210134	CS 4 Year	RAKESH KUMAR PRAJAPATI	P
117	1613210161	CS 4 Year	SHUBHAM RAJ	
118	1613210095	CS 4 Year	MD FAIYAZUDDIN SIDDIQUE	P
119	1713210903	CS 4 Year	DIVYANSH SHARMA	
120	1713210908	CS 4 Year	RAHUL PATHAK	
121	1713210801	CS 4 Year	RUSHALI GUPTA	P
122	1713210909	CS 4 Year	RIMJHIM KUMARI	
123	1713210911	CS 4 Year	RIZWAN AHMAD KHAN	P
124	1713210912	CS 4 Year	SHIVAM MISHRA	P
125	1713210910	CS 4 Year	RITESH BHARDWAJ	
126	1713210902	CS 4 Year	KUMAR ASHWINI	
127	1713210913	CS 4 Year	SHREYSHI RIYA	P
128	1713210906	CS 4 Year	NOSHAD ALI	
129	1713210915	CS 4 Year	VAHID ALI	P
130	1513210134	CS 4 YEAR(2nd Shift)	SACHIN SINGH	P
131	1513210071	CS 4 YEAR(2nd Shift)	KARAN KUMAR BHATTI	
132	1513210127	CS 4 YEAR(2nd Shift)	ROHAN RANJAN	
133	1613210039	CS 4 YEAR(2nd Shift)	ANKIT KUMAR	P
134	1613210180	CS 4 YEAR(2nd Shift)	VICKY SHARMA	P
135	1613210173	CS 4 YEAR(2nd Shift)	SWETA CHAURASIA	
136	1613210097	CS 4 YEAR(2nd Shift)	MD MOBASHSHIR ASAD	
137	1613210012	CS 4 YEAR(2nd Shift)	ABHISHEK KUMAR JHA	
138	1613210040	CS 4 YEAR(2nd Shift)	ANKUR NIGAM	
139	1613210058	CS 4 YEAR(2nd Shift)	BHAVESH SINGH	P
140	1613210094	CS 4 YEAR(2nd Shift)	MD AQUIB JAWED	P
141	1613210181	CS 4 YEAR(2nd Shift)	VIKAS KUMAR SINGH	P
142	1613210105	CS 4 YEAR(2nd Shift)	NARAYAN KRISHNA	
143	1613210189	CS 4 YEAR(2nd Shift)	ZEESHAN DANISH	
144	1613210150	CS 4 YEAR(2nd Shift)	SHAKTI KUMAR	
145	1613210149	CS 4 YEAR(2nd Shift)	SHAHZEB KHAN	
146	1613210137	CS 4 YEAR(2nd Shift)	RISHAV KUMAR MISHRA	P
147	1613210145	CS 4 YEAR(2nd Shift)	SANDEEP SAINI	
148	1613210036	CS 4 YEAR(2nd Shift)	ANKIT CHATURVEDI	P
149	1613210104	CS 4 YEAR(2nd Shift)	NAMRATA	P
150	1613210001	CS 4 YEAR(2nd Shift)	AAMIR AMAN	
151	1613210014	CS 4 YEAR(2nd Shift)	ADITYA KUMAR SHARMA	
152	1613210015	CS 4 YEAR(2nd Shift)	ADITYA SINGH GAHARWAR	
153	1613210159	CS 4 YEAR(2nd Shift)	SHUBHAM	P
154	1613210124	CS 4 YEAR(2nd Shift)	PRIYANK	
155	1613210174	CS 4 YEAR(2nd Shift)	TANU SHARMA	P
156	1613210068	CS 4 YEAR(2nd Shift)	DHEERAJ KUMAR SRIVASTAVA	
157	1613210188	CS 4 YEAR(2nd Shift)	YOGESH KUMAR	
158	1613210032	CS 4 YEAR(2nd Shift)	ANIMESH GUPTA	P
159	1613210004	CS 4 YEAR(2nd Shift)	AASHU SHARMA	
160	1613210120	CS 4 YEAR(2nd Shift)	PRASHANT ROSHAN	P

161	1613210169	CS 4 YEAR(2nd Shift)	SONAM	P
162	1613210168	CS 4 YEAR(2nd Shift)	SONALI TRIPATHI	P
163	1613210115	CS 4 YEAR(2nd Shift)	NITISH KUMAR	
164	1613210033	CS 4 YEAR(2nd Shift)	ANJALI JASWAL	
165	1613210073	CS 4 YEAR(2nd Shift)	HARISH KUMAR	
166	1613210027	CS 4 YEAR(2nd Shift)	AMEY BIKRAM	
167	1613210167	CS 4 YEAR(2nd Shift)	SONALI RAJ	
168	1613210037	CS 4 YEAR(2nd Shift)	ANKIT KUMAR	
169	1613210128	CS 4 YEAR(2nd Shift)	RAGHIB HASSAN	P
170	1613210003	CS 4 YEAR(2nd Shift)	AASHU KUMAR	
171	1613210057	CS 4 YEAR(2nd Shift)	BHASKAR SHARMA	P
172	1613210127	CS 4 YEAR(2nd Shift)	PRIYANSHU KRISHNAN	
173	1613210141	CS 4 YEAR(2nd Shift)	SAHIL DASH	
174	1613210076	CS 4 YEAR(2nd Shift)	JHANVI SINGH	
175	1613210064	CS 4 YEAR(2nd Shift)	DEEPANSHU KUMAR SINGH	P
176	1613210089	CS 4 YEAR(2nd Shift)	MANSI RANI	
177	1613210117	CS 4 YEAR(2nd Shift)	OSAID KHAN	
178	1613210088	CS 4 YEAR(2nd Shift)	LEENA	
179	1613210099	CS 4 YEAR(2nd Shift)	MD RUMMAN REZA	
180	1613210029	CS 4 YEAR(2nd Shift)	ANIKET KUMAR	P
181	1613210091	CS 4 YEAR(2nd Shift)	MD FURQUAN	
182	1613210007	CS 4 YEAR(2nd Shift)	ABHINAV KUMAR	P
183	1613210081	CS 4 YEAR(2nd Shift)	KUMAR ABHINAV	
184	1613210151	CS 4 YEAR(2nd Shift)	SHIVAM GUPTA	
185	1613210065	CS 4 YEAR(2nd Shift)	DEWANSHU KUMAR	P
186	1613210101	CS 4 YEAR(2nd Shift)	MOHD DANISH BEG	
187	1613210009	CS 4 YEAR(2nd Shift)	ABHISHEK AGRAWAL	P
188	1613210066	CS 4 YEAR(2nd Shift)	DHEERAJ MITTAL	P
189	1613210044	CS 4 YEAR(2nd Shift)	ARIHANT SHANKHYAN	P
190	1613210154	CS 4 YEAR(2nd Shift)	SHIVAM KUMAR	
191	1613210165	CS 4 YEAR(2nd Shift)	SIDDHARTHA MAYUR	P
192	1613210085	CS 4 YEAR(2nd Shift)	LAKSHAY KATYAL	
193	1613210087	CS 4 YEAR(2nd Shift)	LALIT VERMA	P
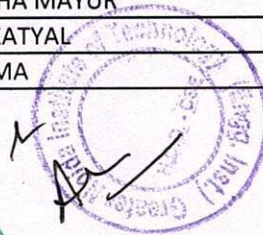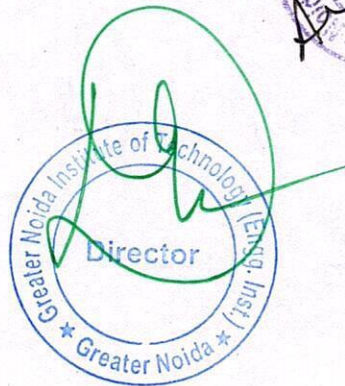
Director

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Ref: - No. GNIOT/CSE/ODD/Events/02

Date: 14.11.2019

NOTICE

This is to inform all the students that as per the academic calendar the department are organizing coding competition for the current semester, continuing the same practice you all are informed that coding competition is being organized on 18th November 2019.

The students are requested to Present in full strength and take the maximum benefits of the workshop

Director

HOD-CSE
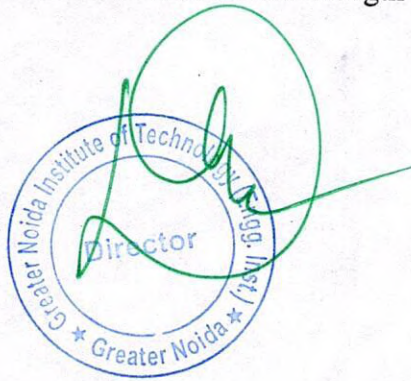
(Approved by AICTE, Delhi & Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow)
♀ Plot No. 7, Knowledge Park-II, Greater Noida, Gautam Buddh Nagar, Uttar Pradesh-201310
☎ 0120-2328214/15/16 | 1800 274 6969   ✉ director@gniot.net.in   ⊕ www.gniot.net.in

Coding Competition
on

"Computer Code"

18th Nov, 2019
(11:30AM to 12.30PM)

Organized by
Department of Computer Science and Engineering

INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of Education Initiative)

GNIOT
Group of Institutions
Since 2001

Institution's Innovation Council
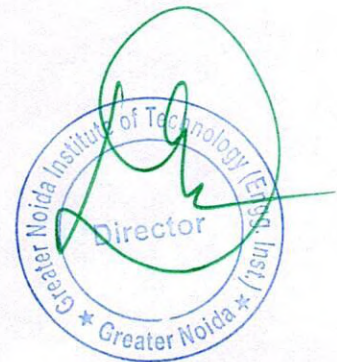
SNo.	**Univ.Roll	**Class	**Name	Attendance for Event
1	1713210081	CS 2 Year	MOHD ARIF	A
2	1813210104	CS 2 Year	NIKITA SINHA	A
3	1813210080	CS 2 Year	MANAS TRIPATHI	A
4	1813210090	CS 2 Year	MD SHAHBAZ KARIM	P
5	1813210087	CS 2 Year	MD KASHF AHMAR	P
6	1813210114	CS 2 Year	PULKIT AGGARWAL	A
7	1813210091	CS 2 Year	MD SHAHNAWAZ HAIDER	P
8	1813210046	CS 2 Year	BHANU BELWAL	P
9	1813210146	CS 2 Year	SHIKHA YADAV	P
10	1813210022	CS 2 Year	ANCHAL SHARMA	P
11	1813210020	CS 2 Year	AMAN KUMAR	P
12	1813210099	CS 2 Year	MUHAMMAD TOUSIF ANWER	P
13	1813210144	CS 2 Year	SHARDUL GAUTAM	P
14	1813210174	CS 2 Year	VAIBHAV MATHUR	P
15	1813210094	CS 2 Year	MOHIT KUMAR	P
16	1813210175	CS 2 Year	VAIBHAV SINGH MEHTA	A
17	1813210027	CS 2 Year	ANSHIKA KUMARI	A
18	1813210126	CS 2 Year	RITWIK RISHU	P
19	1813210100	CS 2 Year	MUSKAN RASTOGI	P
20	1813213081	CS 2 Year	SHIVAM DUTT SHARMA	P
21	1813210137	CS 2 Year	SANGEET SACHDEVA	A
22	1813210095	CS 2 Year	MONIKA KUMARI	P
23	1813210116	CS 2 Year	RAHUL SHARMA	P
24	1813210134	CS 2 Year	SAINATH M	A
25	1813210023	CS 2 Year	ANKIT TRIPATHI	P
26	1813210082	CS 2 Year	MANISH SOLANKI	P
27	1813210088	CS 2 Year	MD MOKARRAM MANSOOR	P
28	1813210068	CS 2 Year	JATIN SINGH CHAUHAN	P
29	1813210019	CS 2 Year	ALI AKHTAR ANSARI	P
30	1813210008	CS 2 Year	ABHISHEK PANDEY	P
31	1813210131	CS 2 Year	SACHIN	P
32	1813210058	CS 2 Year	HARI MOHAN PATHAK	P
33	1713210133	CS 2 Year	SAIF ALI	P
34	1813210122	CS 2 Year	RICHA MISHRA	P
35	1813210153	CS 2 Year	SRISHTI KUMARi	P
36	1813210151	CS 2 Year	SHIVANSH PANDEY	P
37	1813213048	CS 2 Year	MANOJ KUMAR	P
38	1813210007	CS 2 Year	ABHISHEK	A
39	1813210125	CS 2 Year	RISHABH PANDEY	P
40	1813210048	CS 2 Year	BHARTI KUMARI	P
41	1813210135	CS 2 Year	SAJAL SAHU	P
42	1813210123	CS 2 Year	RISHABH ATTRI	P
43	1813210120	CS 2 Year	RAJVEER SINGH	P
44	1813210141	CS 2 Year	SAURABH RAI	A
45	1813210011	CS 2 Year	ABHISHEK KUMAR SINGH	P
46	1813210115	CS 2 Year	RAGINI	P
47	1813210081	CS 2 Year	MANISH CHAMOLI	P
48	1813210052	CS 2 Year	DEVESH PANDEY	P
49	1813210054	CS 2 Year	DHEERAJ	P
50	1813210028	CS 2 Year	ANURAG SHARMA	P
51	1813210102	CS 2 Year	NEHAL RAZA ANSARI	A
52	1813210026	CS 2 Year	ANKUSH BAGHEL	P
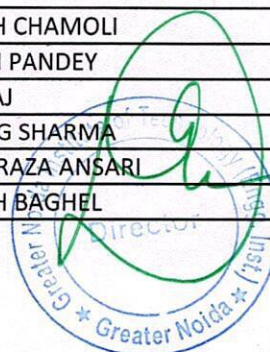
53	1813210043	CS 2 Year	AZAD	P
54	1813210079	CS 2 Year	LOKENDER SHARMA	P
55	1813210173	CS 2 Year	UTTAMADITYA SINGH	A
56	1813210030	CS 2 Year	ANURAG KUMAR GUPTA	P
57	1813210145	CS 2 Year	SHASHANK SAMEER	P
58	1813210110	CS 2 Year	PRATEEK AGRAWAL	P
59	1813210064	CS 2 Year	HIMANSHU YADAV	P
60	1813210178	CS 2 Year	VIDYOTMA	P
61	1813210149	CS 2 Year	SHIVAM THAKUR	P
62	1813210156	CS 2 Year	SHUBHAM BHATT	P
63	1813210107	CS 2 Year	NITIN VERMA	P
64	1813210009	CS 2 Year	ABHISHEK KUMAR SINGH	P
65	1813210051	CS 2 Year	DEEPAK VAISHNAV	P
66	1813210171	CS 2 Year	TUSHAR RAI	P
67	1813210157	CS 2 Year	SHUBHAM PANDEY	P
68	1813210119	CS 2 Year	RAJEEV RAWAL	P
69	1813210045	CS 2 Year	BASANT SOAM	P
70	1813210002	CS 2 Year	AAYUSH KUMAR	P
71	1813210074	CS 2 Year	KAUSHKI	P
72	1813210183	CS 2 Year	YUSUF SIDDIQUI	P
73	1813210004	CS 2 Year	ABHAY KUSHWAHA	P
74	1813210017	CS 2 Year	AKARSH SRIVASTAV	A
75	1813210164	CS 2 Year	SUMIT PARASHAR	P
76	1813210103	CS 2 Year	NIKHIL ARYA	P
77	1813210162	CS 2 Year	SRISHTI CHAUHAN	P
78	1813210018	CS 2 Year	AL BASIT KHAN	P
79	1813210105	CS 2 Year	NIKITA SINGH	P
80	1813210167	CS 2 Year	TANYA JAIN	A
81	1813210053	CS 2 Year	DEVESH SINGH CHAUHAN	A
82	1813210049	CS 2 Year	CHHAVI RAJ	P
83	1813210093	CS 2 Year	MOHD SAHIL	P
84	1813210169	CS 2 Year	TARUNDEEP SINGH	P
85	1813210037	CS 2 Year	ASHUTOSH KUMAR PANDEY	P
86	1813210161	CS 2 Year	SIDDHARTHA KHARE	P
87	1813210109	CS 2 Year	PRANJAL	P
88	1813210014	CS 2 Year	ADITYA PRATAP SHAHI	P
89	1813210084	CS 2 Year	MANTHAN MAURYA	P
90	1813210070	CS 2 Year	JITENDRA KUMAR SRIVASTAVA	P
91	1813210113	CS 2 Year	PRIYANSHU SINGH	P
92	1813210092	CS 2 Year	MEEMANSHA PANDEY	P
93	1813210136	CS 2 Year	SAKSHI AHLAWAT	P
94	1813213099	CS 2 Year	VIJAY LAKSHMI TIWARI	A
95	1813210036	CS 2 Year	ASHUTOSH KUMAR SINGH	A
96	1813210039	CS 2 Year	AVI CHAUDHARY	A
97	1813210003	CS 2 Year	ABDURRAHMAN	P
98	1813210006	CS 2 Year	ABHINAV SINGH	P
99	1813210075	CS 2 Year	KRISHAN SINGH	A
100	1813210150	CS 2 Year	SHIVANI	A
101	1813210140	CS 2 Year	SAUMYA GUPTA	P
102	1813210015	CS 2 Year	ADITYA SINGH	A
103	1813210176	CS 2 Year	VIBHA SHAKYA	P
104	1813210071	CS 2 Year	KANISHKA SIROHI	P
105	1813210154	CS 2 Year	SHRUTI RAI	P
106	1813210180	CS 2 Year	VISHU	A

107	1813210106	CS 2 Year	NIPURN	P
108	1813210172	CS 2 Year	UTKARSH DUBEY	P
109	1813210025	CS 2 Year	ANKIT YADAV	P
110	1813210158	CS 2 Year	SHUBHAM YADAV	P
111	1813210069	CS 2 Year	JAYHIND NAVIK	P
112	1813210165	CS 2 Year	SURAJ KUMAR	P
113	1813210148	CS 2 Year	SHIVAM MISHRA	P
114	1813210044	CS 2 Year	AZAM KHAN	A
115	1813210063	CS 2 Year	HIMANSHI GOEL	A
116	1813210129	CS 2 Year	RUCHIKA CHOUDHARY	P
117	1813210182	CS 2 Year	YOGESH TARKAR	A
118	1901320109015	CS 2 Year	SHASHWAT SINGH	P
119	1901320109012	CS 2 Year	RAJ SRIVASTAV	P
120	1901320109002	CS 2 Year	ABHISHEK JAIN	P
121	1901320109013	CS 2 Year	RAVI KUMAR SINGH	P
122	1901320109007	CS 2 Year	MD IRFAN	A
123	1901320109016	CS 2 Year	SIDDHARTH TIWARI	P
124	1901320109003	CS 2 Year	ANKUR KUMAR	A
125	1901320109009	CS 2 Year	MD SAIFI HASSAN	P
126	1901320109001	CS 2 Year	ABHINAV KUMAR SINGH	P
127	1901320109011	CS 2 Year	RAHUL BHARTI	P
128	1901320109010	CS 2 Year	NIKESH KUMAR	P
129	1713210082	CS 2 YEAR(2nd Shift)	MOHD. FAIZULLAH	P
130	1813210005	CS 2 YEAR(2nd Shift)	ABHAY PRATAP SINGH	P
131	1813210130	CS 2 YEAR(2nd Shift)	RUCHIKA JAISWAL	A
132	1813210042	CS 2 YEAR(2nd Shift)	AWANISH KUMAR SINGH	A
133	1813210012	CS 2 YEAR(2nd Shift)	ADARSH KUMAR CHAUDHARY	A
134	1813210111	CS 2 YEAR(2nd Shift)	PRINCE VERMA	P
135	1813210138	CS 2 YEAR(2nd Shift)	SAPNA CHAURASIA	P
136	1813210160	CS 2 YEAR(2nd Shift)	SHUBHISH SRIVASTAVA	P
137	1813210147	CS 2 YEAR(2nd Shift)	SHIVAM SHARMA	P
138	1813210050	CS 2 YEAR(2nd Shift)	DEEPAK KUMAR	P
139	1813210086	CS 2 YEAR(2nd Shift)	MAYANK AGGARWAL	P
140	1813210118	CS 2 YEAR(2nd Shift)	RAJA KUMAR GUPTA	A
141	1813210067	CS 2 YEAR(2nd Shift)	JAGMOHAN MISHRA	A
142	1813210061	CS 2 YEAR(2nd Shift)	HEMANT SINGH CHAUHAN	A
143	1813210128	CS 2 YEAR(2nd Shift)	ROHIT KUMAR GUPTA	P
144	1813210073	CS 2 YEAR(2nd Shift)	KARUNANIDHI OJHA	P
145	1813210142	CS 2 YEAR(2nd Shift)	SAURABH KUMAR SINGH	A
146	1813210076	CS 2 YEAR(2nd Shift)	KRISHNA MOHAN	P
147	1813210177	CS 2 YEAR(2nd Shift)	VIDYA RAJ	A
148	1813210108	CS 2 YEAR(2nd Shift)	PRABHU BISHT	P
149	1813210096	CS 2 YEAR(2nd Shift)	MRIDUL KUMAR	P
150	1813210055	CS 2 YEAR(2nd Shift)	FARHAN AHMAD	P
151	1813210041	CS 2 YEAR(2nd Shift)	AWANISH KUMAR	P
152	1813210047	CS 2 YEAR(2nd Shift)	BHARAT	P
153	1813210089	CS 2 YEAR(2nd Shift)	MD. NAZISH CHAND	P
154	1813210034	CS 2 YEAR(2nd Shift)	ARYAN TRIPATHI	P
155	1813210112	CS 2 YEAR(2nd Shift)	PRIYA SRIVASTAV	P
156	1813210132	CS 2 YEAR(2nd Shift)	SAFEER ALAM	P
157	1813210033	CS 2 YEAR(2nd Shift)	ARYA RANJAN	P
158	1813210024	CS 2 YEAR(2nd Shift)	ANKIT VARSHNEY	P
159	1813210016	CS 2 YEAR(2nd Shift)	AJIT DWIVEDI	P
160	1813210065	CS 2 YEAR(2nd Shift)	HIMANSHU CHAUBEY	P
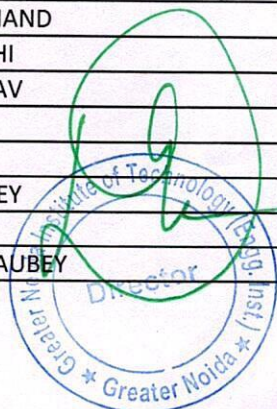
161	1813210121	CS 2 YEAR(2nd Shift)	RICHA TANEJA	P
162	1813210083	CS 2 YEAR(2nd Shift)	MANISH KUMAR	P
163	1813210163	CS 2 YEAR(2nd Shift)	SUMIT KUMAR	P
164	1813210057	CS 2 YEAR(2nd Shift)	GIRIJESH KUMAR	P
165	1813210101	CS 2 YEAR(2nd Shift)	NEHA MISHRA	P
166	1813210001	CS 2 YEAR(2nd Shift)	AARYAN SINGH	P
167	1813210032	CS 2 YEAR(2nd Shift)	ARVIND KUMAR MAURYA	P
168	1813210031	CS 2 YEAR(2nd Shift)	AQUIB NEHAL	A
169	1813210040	CS 2 YEAR(2nd Shift)	AVINASH SINGH	A
170	1813210166	CS 2 YEAR(2nd Shift)	SURAJ YADAV	A
171	1813210127	CS 2 YEAR(2nd Shift)	ROHIT SINGH	P
172	1813210143	CS 2 YEAR(2nd Shift)	SAURABH SINGH	P
173	1813210168	CS 2 YEAR(2nd Shift)	TARUN SHARMA	P
174	1813210029	CS 2 YEAR(2nd Shift)	ANURAG SRIVASTAVA	P
175	1813210098	CS 2 YEAR(2nd Shift)	MUDIT ARYA	A
176	1813210097	CS 2 YEAR(2nd Shift)	MRIDUL SHEKHAR TIWARI	A
177	1813210152	CS 2 YEAR(2nd Shift)	SHRADDHA SHUKLA	P
178	1813210059	CS 2 YEAR(2nd Shift)	HARSH BANSAL	P
179	1813210060	CS 2 YEAR(2nd Shift)	HARSH SHARMA	P
180	1813210117	CS 2 YEAR(2nd Shift)	RAJ	P
181	1813210021	CS 2 YEAR(2nd Shift)	AMAN SINGH	P
182	1813210181	CS 2 YEAR(2nd Shift)	VIVEK YADAV	A
183	1813210077	CS 2 YEAR(2nd Shift)	KULDEEP CHAUHAN	P
184	1813210035	CS 2 YEAR(2nd Shift)	ASHIRVAD MANI TRIPATHI	P
185	1813210056	CS 2 YEAR(2nd Shift)	GAURAV PANDAY	A
186	1813210066	CS 2 YEAR(2nd Shift)	HRITHIK KOUNDAL	A
187	1813210078	CS 2 YEAR(2nd Shift)	KULDEEP SHARMA	P
188	1813210124	CS 2 YEAR(2nd Shift)	RISHABH RAJ	P
189	1813210155	CS 2 YEAR(2nd Shift)	SHUBHAM KUMAR	P
190	1901320109006	CS 2 YEAR(2nd Shift)	KISHAN RAJ	A
191	1901320109017	CS 2 YEAR(2nd Shift)	SWATI SINGH	P
192	1901320109014	CS 2 YEAR(2nd Shift)	SARA KHAN	P
193	1901320109008	CS 2 YEAR(2nd Shift)	MD IRSHAD	P
194	1901320109005	CS 2 YEAR(2nd Shift)	DILBER HUSAIN KHAN	A
195	1901320109004	CS 2 YEAR(2nd Shift)	AYUSHMAN PUNDHIR	P

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Ref: - No. GNIOT/CSE/EVEN/Events/03   Date: 20.04.2020

NOTICE

This is to inform all the students that as per the academic calendar the department are organizing Webinar for the current semester, continuing the same practice you all are informed that an Webinar On "ARTIFICIAL INTELLIGENCE" is being organized on 23rd April 2020.

The students are requested to Present in full strength and take the maximum benefits of the workshop

HOD-CSE
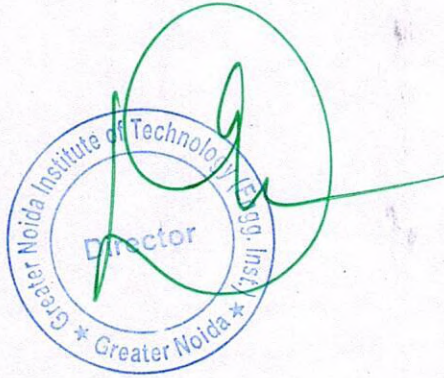
Webinar
on

"Artificial Intelligence"

23rd April, 2020
(02:00PM to 03:30PM)

Organized by
Department of Computer Science and Engineering

**INSTITUTION'S
INNOVATION
COUNCIL**
(Ministry of Education Initiative)

GNIOT
Group of Institutions
Since 2001

Institution's Innovation Council

SNo.	**Univ.Roll	**Class	**Name	Attendance for Event
1	1513210045	CS 3 Year	ATUL CHAUDHARY	A-
2	1613210182	CS 3 Year	VIKASH	A-
3	1613210047	CS 3 Year	ARPAN SRIVASTAVA	A
4	1713210175	CS 3 Year	VIDHI GUGLANI	A
5	1713210157	CS 3 Year	SHUBHAM SAURABH	P
6	1713210129	CS 3 Year	SABA	A-
7	1713210107	CS 3 Year	PRATYAKSH SAXENA	P
8	1713210139	CS 3 Year	SAUDUR RAHMAN	P
9	1713210155	CS 3 Year	SHUBHAM RAJ	P
10	1713210014	CS 3 Year	ADITYA RANJAN PANDEY	A-
11	1713210135	CS 3 Year	SALADI NITISHA	A
12	1713210069	CS 3 Year	KOMAL SINGH	A
13	1713210159	CS 3 Year	SIDDHANT SINGH	P
14	1713210150	CS 3 Year	SHIVANG SAXENA	A
15	1713210016	CS 3 Year	AKASH TYAGI	P
16	1713210142	CS 3 Year	SHANTANU KUMAR SHARMA	P
17	1713210061	CS 3 Year	JAY KUMAR	A-
18	1713210137	CS 3 Year	SARBJEET KUMAR	A-
19	1713210151	CS 3 Year	SHIVANGI KAUSHIK	P
20	1713210093	CS 3 Year	NISHA PATEL	P
21	1713210185	CS 3 Year	VIVEK SINGH	P
22	1713210104	CS 3 Year	PARWEZ ALAM	A-
23	1713213028	CS 3 Year	ASHUTOSH KUMAR	P
24	1713210161	CS 3 Year	SPARSH	P
25	1713210029	CS 3 Year	ASHUTOSH KUMAR THAKUR	A
26	1713210164	CS 3 Year	SUMIT KUMAR	A
27	1713210025	CS 3 Year	ANKIT MALIK	P
28	1713210026	CS 3 Year	ANKIT SAHAY	P
29	1713210062	CS 3 Year	JISHANT TYAGI	P
30	1713210004	CS 3 Year	ABHI CHAUHAN	P
31	1713210180	CS 3 Year	VISHAL KUMAR VERMA	P
32	1713210087	CS 3 Year	NAVEEN PATHAK	P
33	1713210079	CS 3 Year	MEDHA RAJ	A
34	1713210177	CS 3 Year	VIKAS KUMAR OJHA	A
35	1713210068	CS 3 Year	KOMAL RAWAT	A
36	1713210143	CS 3 Year	SHASHANK BHATT	P
37	1713210095	CS 3 Year	NISHANT KUMAR	P
38	1713210169	CS 3 Year	TANYA VERMA	A
39	1713210189	CS 3 Year	YASHWANT SHEKHAWAT	A
40	1713210039	CS 3 Year	CHANDAN	A
41	1713210144	CS 3 Year	SHASHANK GARG	P
42	1713210181	CS 3 Year	VISHAL SAINI	A
43	1713210103	CS 3 Year	PARTH JOSHI	P
44	1713213024	CS 3 Year	ANURAG BHATI	P
45	1713210074	CS 3 Year	MANSI GARG	A
46	1713210126	CS 3 Year	ROHIT SINGH	A
47	1713210085	CS 3 Year	MUSTAFA HUSSAIN DAR	A
48	1713210096	CS 3 Year	NISHANT RANJAN	A
49	1713210073	CS 3 Year	MANJESH GUPTA	P
50	1713210002	CS 3 Year	AANIF MANZOOR	A
51	1713210125	CS 3 Year	ROHIT KUMAR	A
52	1713210187	CS 3 Year	VIVEK KUMAR YADAV	P
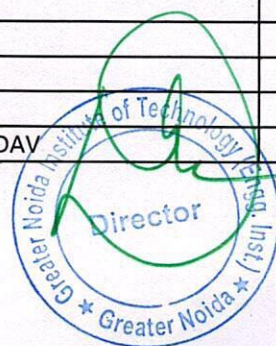
53	1813210043	CS 2 Year	AZAD	A
54	1813210079	CS 2 Year	LOKENDER SHARMA	A
55	1813210173	CS 2 Year	UTTAMADITYA SINGH	A
56	1813210030	CS 2 Year	ANURAG KUMAR GUPTA	A
57	1813210145	CS 2 Year	SHASHANK SAMEER	A
58	1813210110	CS 2 Year	PRATEEK AGRAWAL	A
59	1813210064	CS 2 Year	HIMANSHU YADAV	P
60	1813210178	CS 2 Year	VIDYOTMA	P
61	1813210149	CS 2 Year	SHIVAM THAKUR	A
62	1813210156	CS 2 Year	SHUBHAM BHATT	A
63	1813210107	CS 2 Year	NITIN VERMA	A
64	1813210009	CS 2 Year	ABHISHEK KUMAR SINGH	A
65	1813210051	CS 2 Year	DEEPAK VAISHNAV	A
66	1813210171	CS 2 Year	TUSHAR RAI	A
67	1813210157	CS 2 Year	SHUBHAM PANDEY	P
68	1813210119	CS 2 Year	RAJEEV RAWAL	A
69	1813210045	CS 2 Year	BASANT SOAM	P
70	1813210002	CS 2 Year	AAYUSH KUMAR	P
71	1813210074	CS 2 Year	KAUSHKI	A
72	1813210183	CS 2 Year	YUSUF SIDDIQUI	A
73	1813210004	CS 2 Year	ABHAY KUSHWAHA	A
74	1813210017	CS 2 Year	AKARSH SRIVASTAV	A
75	1813210164	CS 2 Year	SUMIT PARASHAR	C
76	1813210103	CS 2 Year	NIKHIL ARYA	P
77	1813210162	CS 2 Year	SRISHTI CHAUHAN	A
78	1813210018	CS 2 Year	AL BASIT KHAN	A
79	1813210105	CS 2 Year	NIKITA SINGH	A
80	1813210167	CS 2 Year	TANYA JAIN	A
81	1813210053	CS 2 Year	DEVESH SINGH CHAUHAN	P
82	1813210049	CS 2 Year	CHHAVI RAJ	P
83	1813210093	CS 2 Year	MOHD SAHIL	A
84	1813210169	CS 2 Year	TARUNDEEP SINGH	A
85	1813210037	CS 2 Year	ASHUTOSH KUMAR PANDEY	A
86	1813210161	CS 2 Year	SIDDHARTHA KHARE	A
87	1813210109	CS 2 Year	PRANJAL	A
88	1813210014	CS 2 Year	ADITYA PRATAP SHAHI	P
89	1813210084	CS 2 Year	MANTHAN MAURYA	P
90	1813210070	CS 2 Year	JITENDRA KUMAR SRIVASTAVA	P
91	1813210113	CS 2 Year	PRIYANSHU SINGH	P
92	1813210092	CS 2 Year	MEEMANSHA PANDEY	A
93	1813210136	CS 2 Year	SAKSHI AHLAWAT	P
94	1813213099	CS 2 Year	VIJAY LAKSHMI TIWARI	A
95	1813210036	CS 2 Year	ASHUTOSH KUMAR SINGH	A
96	1813210039	CS 2 Year	AVI CHAUDHARY	A
97	1813210003	CS 2 Year	ABDURRAHMAN	P
98	1813210006	CS 2 Year	ABHINAV SINGH	A
99	1813210075	CS 2 Year	KRISHAN SINGH	A
100	1813210150	CS 2 Year	SHIVANI	A
101	1813210140	CS 2 Year	SAUMYA GUPTA	P
102	1813210015	CS 2 Year	ADITYA SINGH	A
103	1813210176	CS 2 Year	VIBHA SHAKYA	A
104	1813210071	CS 2 Year	KANISHKA SIROHI	P
105	1813210154	CS 2 Year	SHRUTI RAI	A
106	1813210180	CS 2 Year	VISHU	P

GREATER NOIDA INSTITUTE OF TECHNOLOGY (Engg. Institute)

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ELECTRICAL ENGINEERING DEPARTMENT

NOTICE

GNIOT/EE/2019/   Date: 05/11/2019

Subject: Webinar on Observance of National Cancer Awareness Day

The Electrical Engineering Department is going to organize a **"Webinar on National Cancer Awareness Day"** at GNIOT, Greater Noida on 07/11/2019. The students of B. Tech (EE) are required to attend the webinar. The objective of this webinar is to provide cancer awareness.

Venue: GNIOT, Greater Noida

Date & Time: 07/11/2019 at 12.30 p.m.

Event Coordinator: Mr.Aneep Kumar

HOD (EE)
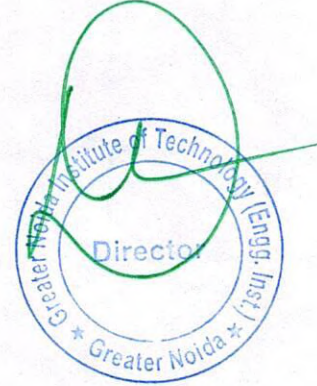
REPORT

WEBINAR
On

"NATIONAL CANCER AWARENESS DAY"

7 NOVEMBER 2019

Organized by

GNIOT
Group of Institutions
Since 2001
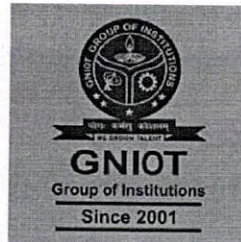
Electrical Engineering Department
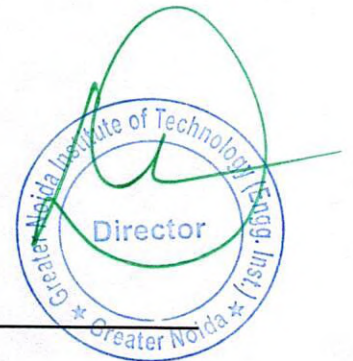
National Cancer Awareness Day

Date: 07.11.2019

The Electrical Engineering (EE) Department conducted a webinar to observe the National Cancer Awareness Day. This day is observed annually to highlight the significance and promote awareness about the diagnosis, treatment, and early detection of the cancer disease. According to the World Health Organization, cancer is one of the leading causes of death worldwide. In India, nearly 1.1 million new cases of cancer are reported annually.

Dr. Gaurav Mishra, MBBS, MS (Orthopedic), AIIMS, New Delhi was the key speaker of the webinar. Dr. Mishra shared his valuable thoughts about the severity of the disease and its various causes. Students of EE and all the faculty members attended the webinar. Mr. Aneep Kumar, Asst. Prof., EE dept. was the moderator of the webinar.

Outcome:

Students learnt about the following:

1. Significance of cancer awareness day
2. Promotion of diagnosis, detection, and treatment of cancer in early stage

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♀ Plot No. 7, Knowledge Park-II, Greater Noida, Gautam Buddh Nagar, Uttar Pradesh-201310
☎ 0120-2328214/15/16 | 1800 274 6969   ✉ director@gniot.net.in   ⊕ www.gniot.net.in

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GREATER NOIDA INSTITUTE OF TECHNOLOGY (Engg. Institute)
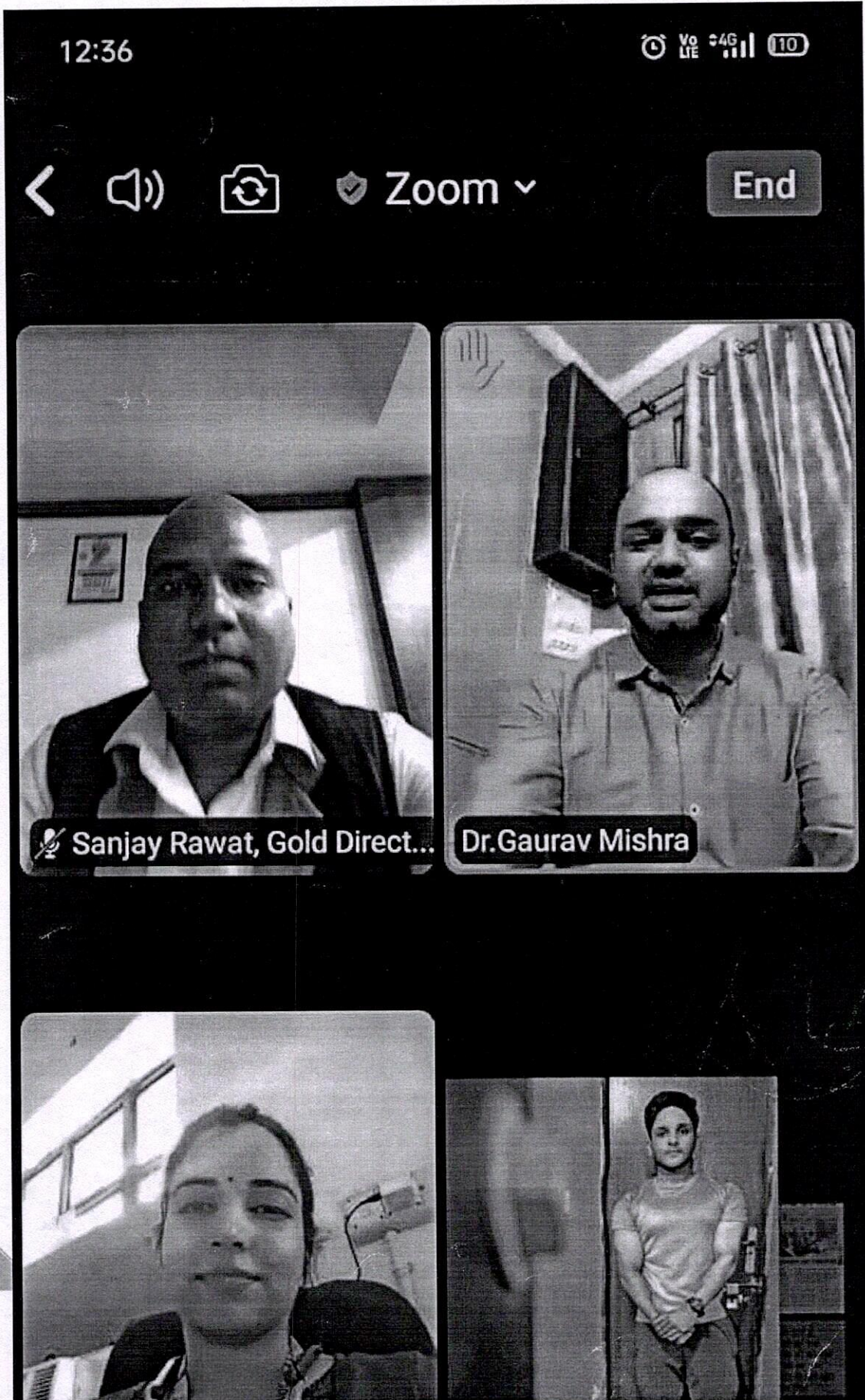
12:35

Close   **Participants (21)**

Q Search

Sanjay Rawat, G... (Host, me)

DM Dr.Gaurav Mishra

AS Aafiya Siddiqui

AS Abhay Saxena

Ajay Singh

AK Aman Kumar

AR Ashish Rajput

FB Full Babu

IS Infinix SMART 4 Plus

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GREATER NOIDA INSTITUTE OF TECHNOLOGY (Engg. Institute)
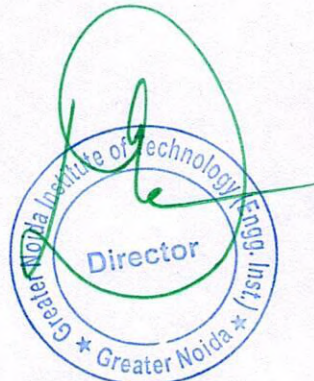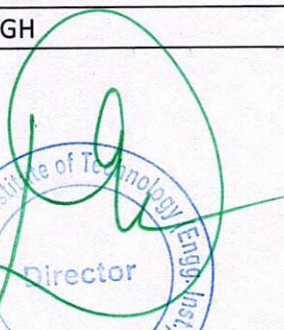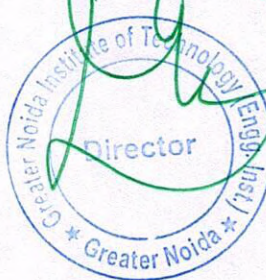
ATTENDANCE SHEET

S.No.	Enrollment No	Student Name	Status
1	1613220032	RASHID QUDDUS	P
2	1613220006	AKHLAQUE AHMAD KHAN	P
3	1613220005	AKASH SRIVASTAV	P
4	1613220008	AMIT KUMAR MAURYA	P
5	1613220007	AMIT KUMAR	P
6	1713220031	VIBHANSHU BHARDWAJ	A
7	1713220027	SHIVAM CHAUHAN	P
8	1713220020	PIYUSH KUMAR	P
9	1713220028	SUDHANSHU TRIPATHI	A
10	1713220015	MD IMSHAD	P
11	1713220032	VISHAL	P
12	1713220025	SACHIN DEV	P
13	1713220003	AKASH BHARADWAJ	P
14	1713220007	BITTU KUMAR	P
15	1713220030	SUSHANT KUMAR	P
16	1713220016	MD HAMZA	P
17	1713220013	KHUSROO TARIQUE	P
18	1713220021	PRABHAT SINGH	A
19	1713220019	NAMRATA YADAV	P
20	1713220023	ROSHANI SINGH	P

Director

HOD (EE)

ELECTRICAL ENGINEERING DEPARTMENT

NOTICE

GNIOT/EE/2019/01   Date: 08/10/2019

Subject: Workshop on Solar Photo Voltaic system

The Electrical Engineering Department is going to organize a "**Workshop on Solar Photo Voltaic system**" at GNIOT, Greater Noida on 10-11/10/2019. The students of B. Tech (EE) are required to attend the workshop. The objective of this workshop is to know aboutsolar photo voltaic systems.

Venue: GNIOT, Greater Noida

Date & Time: 10-11/10/2019 at 10.00 a.m.

Event Coordinator: Mr. Nikhil Gupta

Director

HOD (EE)

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GREATER NOIDA INSTITUTE OF TECHNOLOGY (Engg. Institute)
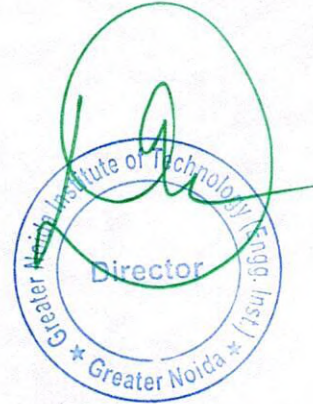
REPORT

WORKSHOP
On

"SOLAR PHOTOVOLTAIC SYSTEM"

10-11 OCTOBER 2019

Organized by

GNIOT
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Since 2001
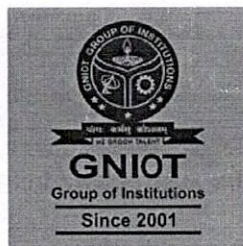
Electrical Engineering Department
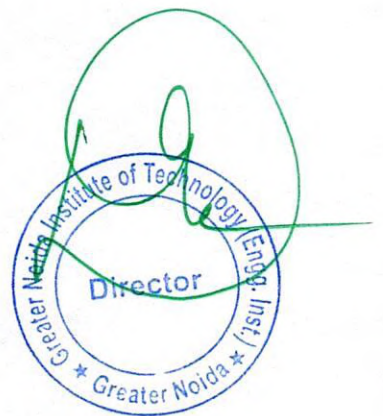
Two day workshop on Solar Photovoltaic System

Department :-   Electrical Engineering

Activity :-   **Two day workshop on Solar Photovoltaic System**

Held on :-   10th & 11th October 2019

Venue :-   **GNIOT Campus**

Attended by :-   Students of EE department

Brief Report :-

A two-day workshop on Solar Photovoltaic Systems was conducted on 10th and 11th October 2019 for the students of the EE department. A theoretical session was held on the first day followed by a practical session for the students on the second day. Students found the workshop quite interactive and got a chance to practically learn the basic operating principles and applications of solar PV modules. Dr. Shelly Garg, Dean, ECE and EE department, Dr. R. L. Sharma, HOD, EE department and all the esteemed faculty members of the department were present during the conclusion of the workshop.

Outcome:

The students learnt about the importance of renewable energy resources, particularly solar energy in today's scenario. They got a practical knowledge to learn the operating principles and applications of solar PV modules.

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Photographs:- 6

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📞 0120-2328214/15/16 | 1800 274 6969 ✉ director@gniot.net.in 🌐 www.gniot.net.in

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📍 Plot No. 7, Knowledge Park-II, Greater Noida, Gautam Buddh Nagar, Uttar Pradesh-201310
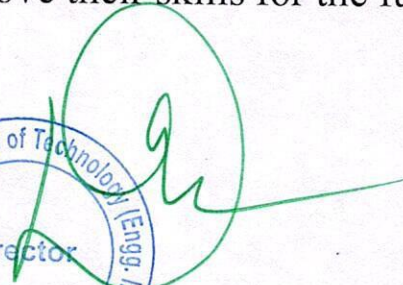📞 0120-2328214/15/16 | 1800 274 6969   ✉ director@gniot.net.in   🌐 www.gniot.net.in

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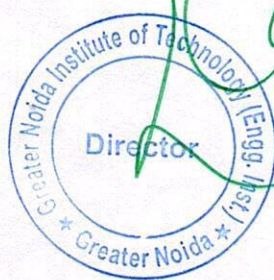0120-2328214/15/16 | 1800 274 6969 ✉ director@gniot.net.in ⊕ www.gniot.net.in

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ATTENDANCE SHEET

S.No.	Enrollment No	Student Name	Status
1	1513220001	ABHISHEK BHARDWAJ	P
2	1513220023	CHANDRA PRAKASH	P
3	1513220043	NIKHIL SHARMA	P
4	1613220020	MD SHOAIB KHAN	P
5	1613220028	RAFIULLAH ALAM	P
6	1613220040	SUHEL KHAN	P
7	1613220026	PAWAN RAUT	P
8	1613220021	MD TAUSHIF RAJA	P
9	1613220037	SHIVAM MISHRA	P
10	1613220016	MD AAMIR SOHAIL KHAN	A
11	1613220032	RASHID QUDDUS	P
12	1613220006	AKHLAQUE AHMAD KHAN	P
13	1613220005	AKASH SRIVASTAV	P
14	1613220008	AMIT KUMAR MAURYA	A
15	1613220007	AMIT KUMAR	P
16	1713220031	VIBHANSHU BHARDWAJ	P
17	1713220027	SHIVAM CHAUHAN	P
18	1713220020	PIYUSH KUMAR	P
19	1713220028	SUDHANSHU TRIPATHI	P
20	1713220015	MD IMSHAD	P
21	1713220032	VISHAL	P
22	1713220025	SACHIN DEV	P
23	1713220003	AKASH BHARADWAJ	P
24	1713220007	BITTU KUMAR	P
25	1713220030	SUSHANT KUMAR	A
26	1713220016	MD HAMZA	A
27	1713220013	KHUSROO TARIQUE	P
28	1713220021	PRABHAT SINGH	P
29	1713220019	NAMRATA YADAV	P
30	1713220023	ROSHANI SINGH	P
31	1713220004	AMAN KUMAR	P
32	1813220017	SANTOSH KUMAR	P
33	1813220018	SHIVAM MODANWAL	A
34	1813220019	STANZIN PAKTO	P
35	1813220021	TAHSEEN AHMAD	P

36	1813220022	VINAY KUMAR TIWARI	A
37	1813220023	VIVEK KUMAR	A
38	1901320209001	AAKASH KUMAR	P
39	1901320209002	ALTAF ALAM	P
40	1901320209003	ANKIT KUMAR PANDEY	P

Director

HOD (EE)

DEPARTMENT OF CIVIL ENGINEERING
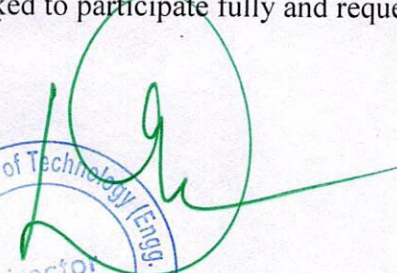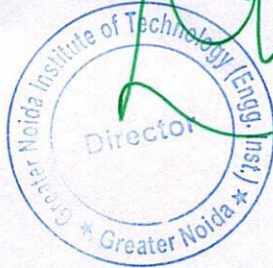
Ref: - No. GNIOT/CE/EVEN/WORKSHOP/03   Date: 15.07.2020

NOTICE

This is to inform all that the **Civil Engineering Department** is organizing an **Online workshop** on the topic of "How to rank 1 on Google-SEO Basics "on **17/07/2020** from **10:00 AM to 12:00 PM**. at least 2hrs before the scheduled time. It will be conducted using Google meet platform. For any query feel free to contact the Event Coordinators

The online link will be shared with all groups within 30 minutes before the start of the event. The students are asked to participate fully and requested to attend the event on time.

Director

HOD, CE

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WORKSHOP

On

"HOW TO RANK 1 ON GOOGLE-SEO BASICS"

17 JULY 2020

Organized by
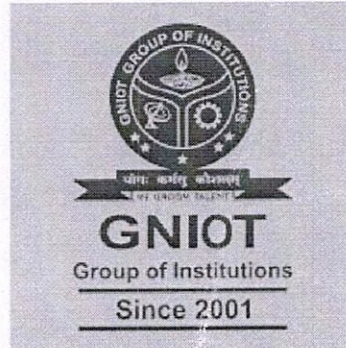
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Department of Civil Engineering
Greater Noida Institute of Technology, Greater Noida

DEPARTMENT OF CIVIL ENGINEERING

Name of Event: Workshop on "How to rank 1 on Google-SEO Basics"
Date of Event: 17th July 2020
Organized by: Department of Civil Engineering, GNIOT
Event Coordinators: Mr. Brahma Pal
Event Poster:
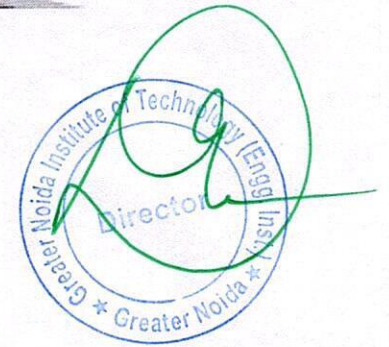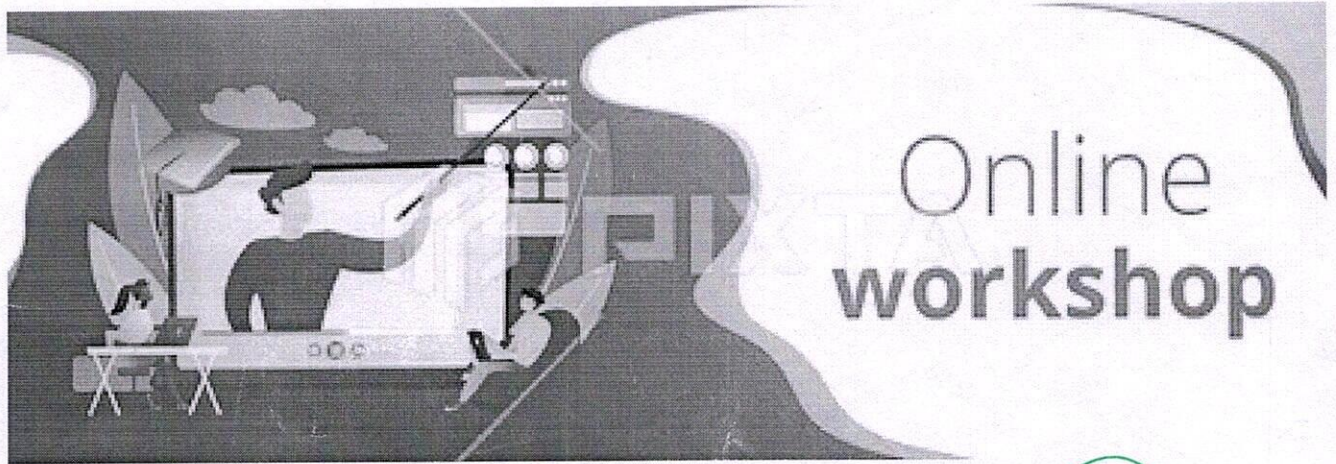
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GREATER NOIDA INSTITUTE OF TECHNOLOGY (Engg. Institute)

Report

Greater Noida Institute of Technology (MBA Institute), Greater Noida in Collaboration with Social Solutions Technology is organizing a workshop on "How to rank 1 on Google-SEO Basics" on 17th July 2020 between 1:00 pm to 3:00 pm.

This workshop is being organized to introduce the basic concepts of Search Engine Optimization (SEO). SEO is a technical, analytical and creative process to improve the visibility of a website in search engines. The primary function of SEO is to drive more unpaid useful traffic to a site that converts into sales.

The Expert discussed and explored the Scope of various online marketing tactics and their future in current scenario and the time to come.

Event Photos:

![GNIOT Engg. Institute logo]

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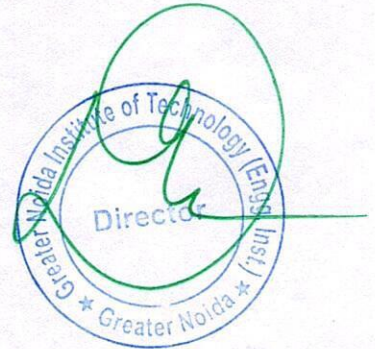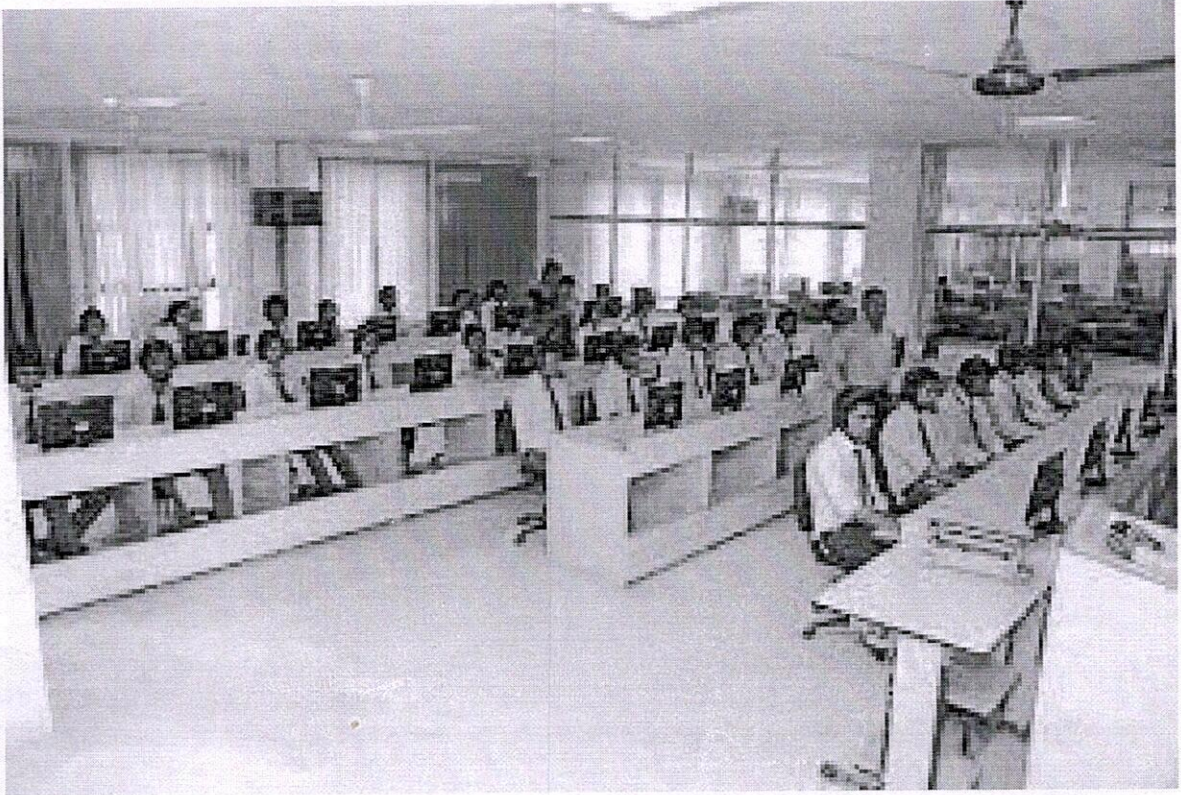
LIST OF STUDENTS

SL NO	ROLL NO	NAME	ATTENDANCE
1	1713200018	ATUL BODUNG	A
2	1713200022	BHAVESH KUMAR	P
3	1713200033	KARAN DUBEY	P
4	1813200001	ABDUL RAHMAN	P
5	1813200002	ADITYA SINHA	A
6	1813200003	ALIYAS ALI	P
7	1813200004	AMIT JAISWAL	P
8	1813200005	ASHISH GOYANKA	P
9	1813200006	ATUL SAXENA	P
10	1813200007	FAIZAN AHMAD	P
11	1813200008	GOURAV KUMAR UPADHYAY	P
12	1813200009	HARSHRAJ SINGH	P
13	1813200010	HIMESH PAREEK	A
14	1813200012	KAUSHIK JHA	P
15	1813200013	MOHAMMAD AFTAB KHAN	P
16	1813200014	MD AASHIQUE	P
17	1813200015	MD.SHAREEB	P
18	1813200016	MD.ZEESHAN	P
19	1813200017	NAVNEET VINOD TIWARI	P
20	1813200019	PARWEZ ALAM	P
21	1813200020	PRADEEP VERMA	A
22	1813200021	RAGHVENDRA SINGH	P
23	1813200022	RAJ GOSWAMI	P
24	1813200023	SACHIN YADAV	P
25	1813200024	SAGAR KUMAR MALAKAR	A
26	1813200025	SAHAJ SHANDILYA	A
27	1813200026	SANDEEP KUMAR PATEL	P
28	1813200027	SANDEEP YADAV	P
29	1813200028	SAYEED ANWAR	P
30	1813200030	SHANKAR PRAKASH	P
31	1813200031	SHIVAM KUMAR JAISWAL	P
32	1813200033	SHRISTI SINGH YADAV	A

Director
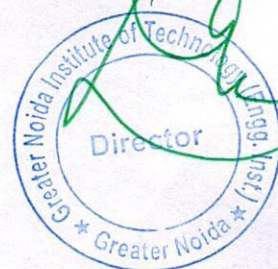
DEPARTMENT OF CIVIL ENGINEERING

Ref: - No. GNIOT/CE/EVEN/EVENTS/EXPERTTALK/05   Date: 29.10.2019

<u>NOTICE</u>

This is to inform the students that as per the academic calendar the department is organizing an Expert Talk on the topic "Application of GIS Data in Ground Water Data Determination" for the current semester, on 01st November 2019 from 10 AM to 11 AM in the Lecture Hall, GNIOT.

The students are requested to be present in full strength and take the maximum benefits of the expert talk.
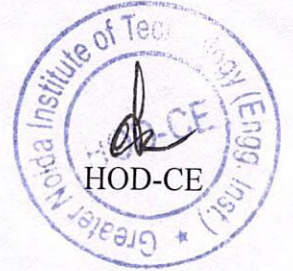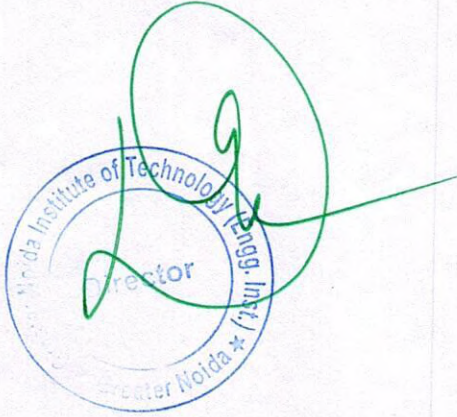
Director

HOD-CE

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GREATER NOIDA INSTITUTE OF TECHNOLOGY (Engg. Institute)

Expert Talk

On

"APPLICATION OF GIS DATA IN GROUND WATER DATA DETERMINATION"

01 November 2019

Organized by

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Greater Noida Institute of Technology, Greater Noida

GREATER NOIDA INSTITUTE OF TECHNOLOGY (Engg. Institute)

ग्रेटर नोएडा इंस्टीट्यूट ऑफ टेक्नोलॉजी (इंजीनियरिंग इंस्टीट्यूट)

Name of Event: Expert Talk
Date of Event: 01 November 2019
Organized by: Department of CE
Event Moderator: Mr. Subhash Patel
Topic: Application of GIS Data in Ground Water Data Determination
Event Poster:

Department of
Civil Engineering
is organizing

an Expert Talk on

Application of GIS Data in Ground Water Data

📅 1.11.2019

🕐 10-11 am

📍 seminar hall 1st floor

Greater Noida, Delhi/NCR
Toll Free No : 18002746969
Web : www.gniotgroup.edu.in

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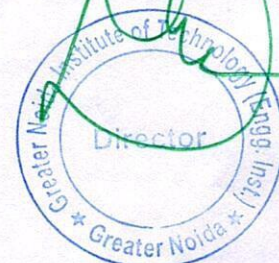
Event Description: On 1st November 2019, an expert talk on the application of GIS data in ground water data determination was held at GNIOT for civil engineering students. The talk was delivered by Mr. Sabir Khan, Assistant Professor at JIMS, IP University.

The session began with Mr. Khan discussing the importance of groundwater in our daily lives, highlighting the fact that it is a vital natural resource that needs to be conserved. He then delved into the various methods used for determining ground water data, with a focus on the use of GIS data.

GIS stands for Geographic Information System, which is a computer-based tool for mapping and analyzing data. Mr. Khan explained how GIS data can be used for ground water data determination, starting with the collection of data such as the location and depth of wells, soil type, topography, and land use. This data is then analyzed and mapped using GIS software to create a visual representation of the groundwater resource in the area.

Mr. Khan further discussed the various applications of GIS data in ground water data determination, including mapping aquifer boundaries, identifying areas of high or low water yield, and assessing the impact of land use changes on ground water resources. He emphasized that the use of GIS data can help in the efficient management and conservation of ground water resources, which is crucial for sustainable development.

The talk concluded with a Q&A session, during which Mr. Khan answered questions from the students on the practical applications of GIS data in civil engineering projects, the limitations of GIS data, and the future prospects of GIS technology.

Overall, the talk provided valuable insights into the use of GIS data for ground water data determination, and highlighted the importance of conservation and sustainable management of ground water resources. The students found the session to be informative and engaging, and appreciated the opportunity to learn from an expert in the field.
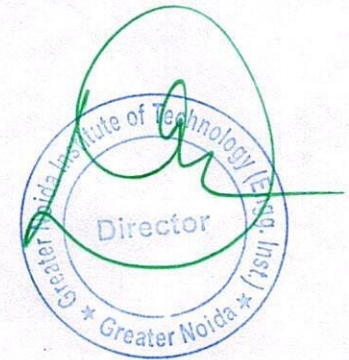
PHOTOS:

List of the students

SL NO	ROLL NO	NAME	ATTENDANCE
1	1713200018	ATUL BODUNG	A
2	1713200022	BHAVESH KUMAR	P
3	1713200033	KARAN DUBEY	P
4	1813200001	ABDUL RAHMAN	P
5	1813200002	ADITYA SINHA	P
6	1813200003	ALIYAS ALI	A
7	1813200004	AMIT JAISWAL	P
8	1813200005	ASHISH GOYANKA	P
9	1813200006	ATUL SAXENA	P
10	1813200007	FAIZAN AHMAD	P
11	1813200008	GOURAV KUMAR UPADHYAY	A
12	1813200009	HARSHRAJ SINGH	P
13	1813200010	HIMESH PAREEK	P
14	1813200012	KAUSHIK JHA	P
15	1813200013	MOHAMMAD AFTAB KHAN	P
16	1813200014	MD AASHIQUE	A
17	1613200016	AMRENDRA PATHAK	P
18	1613200030	DILSHAD SAIFI	P
19	1613200031	DUSHYANT KUMAR	P
20	1613200103	RASHID ANWAR	A
21	1613200113	SHADAB ANWER	P
22	1613200116	SHARIB KHAN	A

ग्रेटर नोएडा इंस्टीट्यूट ऑफ टेक्नोलॉजी (इंजीनियरिंग इंस्टीट्यूट)
GREATER NOIDA INSTITUTE OF TECHNOLOGY (Engg. Institute)

SL NO	ROLL NO	NAME	ATTENDANCE
24	1613200123	SUMIT SHEKHAR	P
25	1613200132	YASH TRIPATHI	P
26	1613200133	YASH ANAND	A
27	1613200135	ZAUHAR ALI	P
28	1713200001	ABHIRAM SHARMA	P
29	1713200002	ADITYA KARAN	P
30	1713200004	AHAMAD RAZA	P
31	1713200005	AKSHAY SINHA	P
32	1713200006	ALTAF AHMAD KHAN	P
33	1713200007	AMIT AMBAWAT	P
34	1713200008	AMIT KUMAR	A
35	1613200134	ZAHID AZAD	P
36	1613213030	APURV PANDEY	P
37	1665400002	ABDUL BASIT	P
38	1665400005	BASUKI NATH JHA	P
39	1665400008	KSHITIJ KUMAR	P
40	1665400012	MOHD ABID ZAKIR	A
41	1665400014	MOHD SUHAIL	P
42	1665400018	RAHUL KUMAR	P
43	1713200902	ANAND MOHAN	P
44	1713200903	ANIMESH PANDEY	P
45	1713200904	ANKIT BHARDWAJ	P
46	1713200906	BHARTENDU KUMAR SINGH	A
47	1713200915	PARVESH KUMAR	A
48	1713200916	PRAVEEN KUMAR	P
49	1713200917	S. SUDHAKAR	P
50	1713200918	SHWETA PAL	P
51	1713200919	SIDDHARTHA SINGH	P
52	1713200923	VIKRANT CHAUHAN	A

Department of Mechanical Engineering

Ref: - No. GNIOT/ME/ 2019/   **Date:** 17th Sept 2019

NOTICE

It is hereby informed to all the students that as per the academic calendar the Mechanical Engineering Department is organizing visit for expert talk by guest Mr. Shaleen Khurana (Head sourcing - G.E. Power) on topic "KNOWING WHAT ARE THE EMPLOYER LOOKING IN US" held on 21st September, 2019.
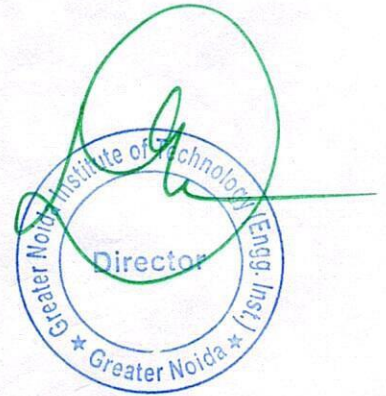
The students are advised to present in full strength and take the maximum benefit from the event.

Dr. Sudhir Kumar

(HOD-ME)

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A Visit for Expert talk on Topic

"KNOWING WHAT ARE THE EMPLOYER LOOKING IN US"

By:- Shaleen Khurana (Head sourcing - G.E. Power)

21st September, 2019

Organized by

Department of Mechanical Engineering

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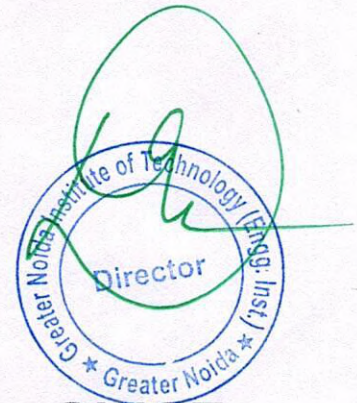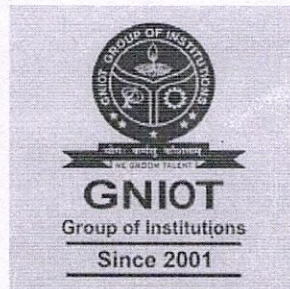
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Visit Activity Report

Department: - Mechanical engineering

Activity: - Expert talk on "KNOWING WHAT ARE THE EMPLOYER LOOKING IN US"

Guest: - Shaleen Khurana
(Head sourcing - G.E. Power)

Held On: - 21st September, 2019

Venue: - G-4 Sector 3 Noida
Opposite Sector 16 Metro Station

Attended by: - 20 students of mechanical department 3rd and 4th year.

Brief Report: - This visit conducted by <u>DISHATANTRA</u> associations in which it is followed of eight sessions.

Session 1- **Personal Branding & Elevator pitch**
Introducing oneself- First impression
By Shaleen Khurana (Head sourcing - G.E. Power)

Session 2- **Corporate jobs-Overview**
a) Functional overview- Supply Chain Management
b) Knowing Industry & organizing structure
c) Job requirement and essential skills needed to stay ahead in the race
By Shaleen Khurana (Head sourcing - G.E. Power)

Session 3- **IOT & Industry 4.0- Overview**
a) Understanding Manufacturing Advancement
b) Gearing up for manufacturing 4.0- jobs
c) Upskilling for industry 4.0
By Ashish Kumar (CIO Binary Semantics)

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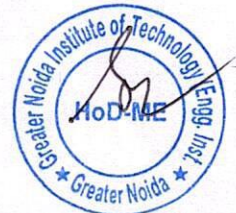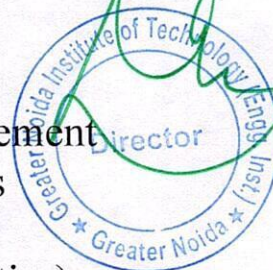
Session 4- **New Age Technologies- Robotics & Automation**
   a) Keeping pace with technology
   b) Shifting factory setups
       By Mahesh G (MD & Entrepreneur- Propick Automation)

Session 5- **Mentorship**
   a) Role & need of mentors in a student's life
   b) Your career goals & mentors
   c) Mentor- Mentee framework
       By Arun Parbhu (Writer and Author)

Session 6- **Government jobs & Entrepreneurship**
   a) Student start-ups
   b) Government support for fresh graduates- jobs & other schemes
       By Anuj Agarwal (MD Career Plus & Dialogue India)

Session 7- **Plant operation**
   a) Functional overview – Plant operation & shop floor management
   b) Knowing factory setups & organizational structure
   c) Job requirement and essential skills needed to stay ahead in the race
       By Rajwinder Singh (Manger- Isgec Heavy Engineering Ltd.)

Session 8- **Confidence Building & Life Skills**
   a) Self-confidence & knowing your strength
   b) Sharing hero stories
   c) Dress to success
   d) How to stand out from the rest?
       By Dr. Raman Suri (Life coach and master spirit)
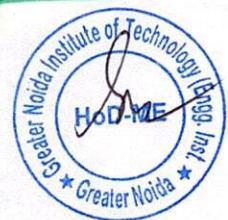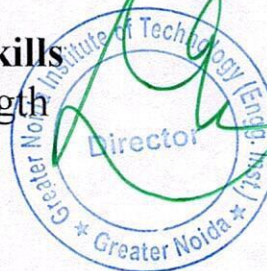
Conclusion: In this session we have learnt about different self confidence building ways and actually how to live our life in a correct manner and the best part is how to fulfill what a recruiter is looking for in his employees.

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Photographs:

Photo 1:- Discussion on role and need of mentors in life

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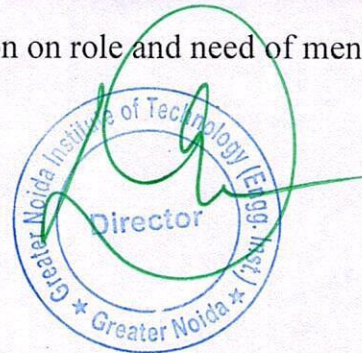
Department of Mechanical Engineering

Ref: - No. GNIOT/ME/ 2019/   **Date**: 01st OCT 2019

NOTICE

It is hereby informed to all the students that as per the academic calendar the Mechanical Engineering Department is organizing **Mini Project Class** by guest **Mr. Zakir Husain** (Senior Exective, Minda, Noida) on topic **"Assembling the I.C Engine's main components"** held on **11th OCT 2019** timing between 10.00AM to 1.00PM.

The students are advised to present in full strength and take the maximum benefit from the event.

Dr. Sudhir Kumar
(HOD-ME)

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A MINI PROJECT CLASS ON TOPIC

"ASSEMBLING THE I.C ENGINE'S MAIN COMPONENTS"

By Guest:- Mr. ZAKIR HUSAIN

(SENIOR EXECTIVE, MINDA, NOIDA)

11th OCT, 2019

(10:00 AM to 1:00 PM)

Organized by

Department of Mechanical Engineering
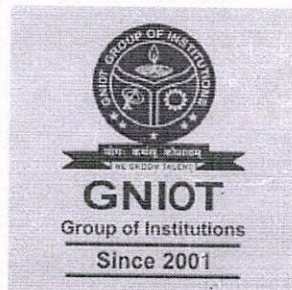
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Knowledge park-II, Greater Noida– 201308

www.gniot.net.in

Activity Report

Department: - MECHANICAL ENGINEERING.

Activity: - MINI PROJECT CLASS OF ASSEMBLING THE I.C ENGINE'S MAIN COMPONENTS FOR PRACTICAL KNOWLEDGE

Guest: - MR. ZAKIR HUSAIN
SENIOR EXECTIVE, MINDA, NOIDA

Held On: - 11ᵗʰ OCT 2019

Venue: - GNIOT (GREATER NOIDA)

Attended by: - STUDENTS OF M E, 2ⁿᵈ YEAR.

Brief Report: -

This class is conducted by ME, 2ⁿᵈ year students. During this activity, they have gained practical knowledge about internal combustion engine. We have dismelted and again assembled the I.C engine's main components in a proper sequence. The main components of I.C engine are like cylinder blocks, cylinder head, crankshaft camshaft connecting rod, piston and piston rings, etc.

Apart from this we have given working knowledge of all components during the practical class. They also study about the material and its composition of each component. So that by changing the composition it

can improve its mechanical properties. At the same time, we have also discussed about the manufacturing process of each component.
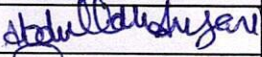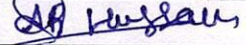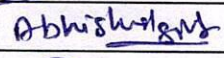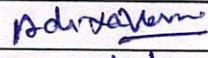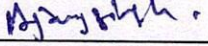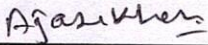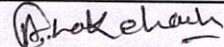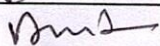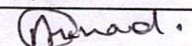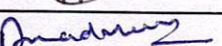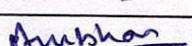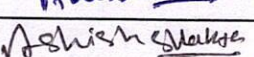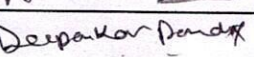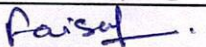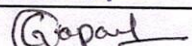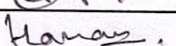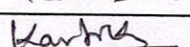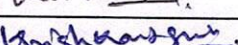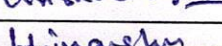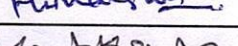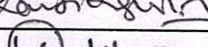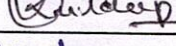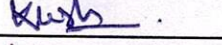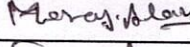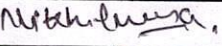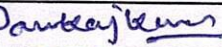
While assembling, Students have seen the water jackets for cooling system and oil passage for lubrication system. They have also seen the combustion chamber where power is produced by burning of fuel. Further, this power is transmitted to the flywheel by the main components.
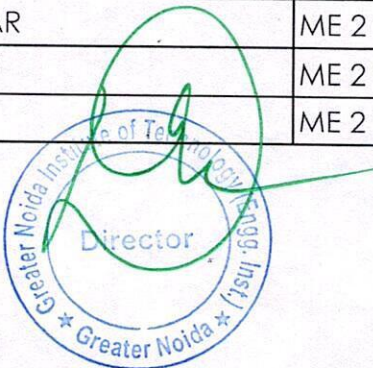
Conclusion:

In this we have given practical knowledge about the main components of I.C engine and its properties. Also learnt about the proper use of tools by which they can improve their skills for the future.

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Department of Mechanical Engineering
List of Students

S. No.	Roll No	Name of the Student	Year & Section	Signature
1	1813240001	ABDULLAH ANSARI	ME 2 Year	
2	1813240002	ABDULLAH HUSSAIN	ME 2 Year	
3	1813240003	ABHISHEK SINGH	ME 2 Year	
4	1813240004	ABHISHEK KUMAR PRIYADARSHI	ME 2 Year	
5	1813240005	ADITYA VERMA	ME 2 Year	
6	1813240006	AJAY SINGH	ME 2 Year	
7	1813240007	AJAZ KHAN	ME 2 Year	
8	1813240008	ALOK CHAUHAN	ME 2 Year	
9	1813240009	AMIT SHARMA	ME 2 Year	
10	1813240010	ANAND SAURABH	ME 2 Year	
11	1813240011	ANAND VEER VIKRAM	ME 2 Year	
12	1813240012	ANUBHAV DHAMA	ME 2 Year	
13	1813240017	ASHISH SHAKYA	ME 2 Year	
14	1813240020	DEEPANKAR PANDEY	ME 2 Year	
15	1813240021	FAISAL ZAFAR	ME 2 Year	
16	1813240022	GOPAL PRASAD	ME 2 Year	
17	1813240023	HANAN ANSARI	ME 2 Year	
18	1713240034	KARTIK CHAUHAN	ME 3 Year	
19	1713240036	KRISHNA KANT SINGH	ME 3 Year	
20	1813240025	HIMANSHU SHUKLA	ME 2 Year	
21	1813240026	KARTIK SINGH	ME 2 Year	
22	1813240027	KULDEEP KUMAR	ME 2 Year	
23	1813240028	KUSH	ME 2 Year	
24	1813240029	MD MERAJ ALAM	ME 2 Year	
25	1813240035	MOHD. JAMAL	ME 2 Year	
26	1813240036	NIKHIL VERMA	ME 2 Year	
27	1813240038	PANKAJ KUMAR	ME 2 Year	
28	1813240039	RAHUL YADAV	ME 2 Year	
29	1813240042	REHAN ALAM	ME 2 Year	

30	1813240047	SHUBHAM KUMAR	ME 2 Year	
31	1813240048	SHUBHAM MISHRA	ME 2 Year	
32	1813240050	SUNNY SINGH	ME 2 Year	
33	1813240051	UTTAM PANWAR	ME 2 Year	
34	1813240052	VICKY	ME 2 Year	
35	1813240053	VINEET FULARA	ME 2 Year	
36	1813240054	VISHAL	ME 2 Year	
37	1901320409001	AJAY KUMAR	ME 2 Year	
38	1901320409002	AMMAD AHMAD	ME 2 Year	
39	1901320409003	ARSHAD KARIM	ME 2 Year	
40	1901320409006	MD ASLAM	ME 2 Year	
41	1901320409008	MD SHAHOOD ALAM	ME 2 Year	
42	1901320409009	MD HELAL AHSAN	ME 2 Year	
43	1901320409010	RAHUL RANA	ME 2 Year	
44	1901320409011	SHIVAM RANA	ME 2 Year	
45	1901320409012	VIKESH KUMAR	ME 2 Year	

Director

Signature of HOD
Dr. Sudhir Kumar
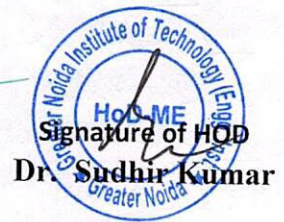
Department of Mechanical Engineering
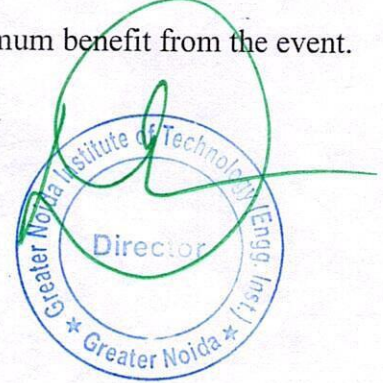
Ref: - No. GNIOT/ME/ 2020/   **Date:** 18th Feb 2020

NOTICE

It is hereby informed to all the students that as per the academic calendar the Mechanical Engineering Department is organizing expert talk on "**ADVANCED ULTRASUPER CRITICAL (AUSC) TECHNOLOGY**" for third year and final year students by guest Sh. **Anil Kumar** (GM at BHEL NOIDA) held on **28th Feb, 2020** timing between 11.00AM to 12.30PM.

The students are advised to present in full strength and take the maximum benefit from the event.

Dr M P S Rawat
(HOD-ME)

Copy to;

1. The Director; For kind information please
2. All concerned
3. Notice boards

A EXPERT TALK ON TOPIC

"ADVANCED ULTRA SUPER CRITICAL (AUSC) TECHNOLOGY"

By Guest:- SH. ANIL KUMAR (General Manager, BHEL Noida)

28th Feb, 2020
(11:00 AM to 12:30 PM)
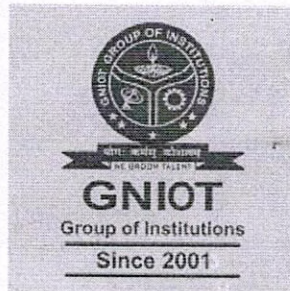
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Activity Report

Department: -   MECHANICAL ENGINEERING.

Activity: -   EXPERT TALK ON "ADVANCED ULTRA SUPER CRITICAL (AUSC) TECHNOLOGY"

Guest: -   **SH. ANIL KUMAR**
(GM, BHEL NOIDA)

Held On: -   28th Feb., 2020

Venue: -   GREATER NOIDA INSTITUTE OF TECHNOLOGY, GREATER NOIDA

Attended by: -   ALL FACULTY MEMBERS AND MECHANICAL THIRD YEAR AND FINAL YEAR STUDENTS.

Brief Report: -

Mechanical Engineering Department of Greater Noida Institute of Technology has organized an expert talk on **"ADVANCED ULTRASUPER CRITICAL (AUSC) TECHNOLOGY"** for third year and final year students. Sh. Anil Kumar (GM at BHEL NOIDA) delivered expert lecture focusing on Advanced Ultra Super Critical (AUSC) Technology that would be used in Indian Thermal Power Plant. In his lecture Mr. Anil Kumar has discussed the working of 800 MW AUSC, advanced ultra super critical technology based power plant with special focus on coal consumption saving, lower emissions and efficiency enhancement. He highlighted various methods of power generation in various power plants like subcritical, super critical, ultra super critical and advanced ultra super critical. He also elaborated that this technology has not been used so far anywhere in the world and India would be setting up power plant based on this technology through a consortium of BHEL, NTPC and IGCAR.

The expert lecture was held at seminar hall of GNIOT campus. About 100 students and 15 faculty members attended the expert talk. Dr. M S Rawat, HOD Mechanical welcomed Sh. Anil Kumar by
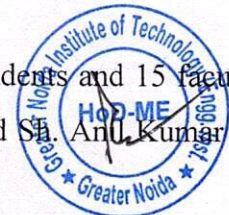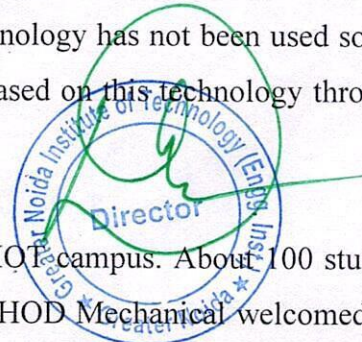
presenting a flower bouquet. At the end of lecture Sh. Anil Kumar interacted with students and answered their queries related to the topic.

Photographs:

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ग्रेटर नोएडा इंस्टीट्यूट ऑफ टेक्नोलॉजी (इंजीनियरिंग इंस्टीट्यूट)
GREATER NOIDA INSTITUTE OF TECHNOLOGY (Engg. Institute)

Department of Mechanical Engineering
List of Students

S. No.	Roll No	Name of the Student	Year & Section	Signature
1	1613240030	ARNAV RUDRA	ME 3 Year	
2	1613240048	DIVAKER VASHIST	ME 3 Year	
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7	1613240145	SHIVENDRA SINGH	ME 3 Year	
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31	1713240072	RAJAT MISHRA	ME 3 Year	
32	1713240074	RAVI PRAJAPATI	ME 3 Year	
33	1713240076	RISHI PRAJAPATI	ME 3 Year	
34	1713240079	SACHIN KUMAR SUNDRAM	ME 3 Year	
35	1713240080	SANDEEP	ME 3 Year	
36	1713240082	SANDEEP KUMAR	ME 3 Year	
37	1713240083	SARTHAK KUMAR BATRA	ME 3 Year	
38	1713240084	SATISH NISHAD	ME 3 Year	
39	1813240009	AMIT SHARMA	ME 2 Year	
40	1813240010	ANAND SAURABH	ME 2 Year	
41	1813240012	ANUBHAV DHAMA	ME 2 Year	
42	1813240014	ARUN HARIJAN	ME 2 Year	
43	1813240015	ARVIND KUMAR GUPTA	ME 2 Year	
44	1813240025	HIMANSHU SHUKLA	ME 2 Year	
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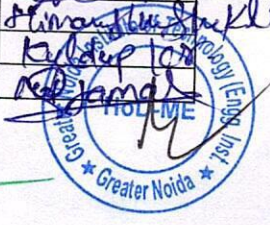
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49	1813240041	RAJARSHEE FOUZDAR	ME 2 Year	
50	1813240042	REHAN ALAM	ME 2 Year	
51	1813240043	SABIR ALAM	ME 2 Year	
52	1813240047	SHUBHAM KUMAR	ME 2 Year	
53	1813240048	SHUBHAM MISHRA	ME 2 Year.	
54	1813240050	SUNNY SINGH	ME 2 Year	
55	1813240051	UTTAM PANWAR	ME 2 Year	
56	1813240052	VICKY	ME 2 Year	
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59	1901320409008	MD SHAHOOD ALAM	ME 2 Year	
60	1901320409009	MD HELAL AHSAN	ME 2 Year	
61	1513240143	NARESH SINGH	ME 4 Year	
62	1513240172	RAHUL RAJ	ME 4 Year	
63	1513240234	UTKARSH SRIVASTAVA	ME 4 Year	
64	1613240001	AADIT KUMAR	ME 4 Year	
65	1613240002	AAQUIB NEYAZ KHAN	ME 4 Year	
66	1613240003	ABDULLAH RAGHIB	ME 4 Year	
67	1613240005	ABHISHEK ANAND	ME 4 Year	
68	1613240006	ABHISHEK BHARGAV	ME 4 Year	
69	1613240007	ABHISHEK KUMAR SINGH	ME 4 Year	
70	1613240010	ABHISHEK KUMAR RAI	ME 4 Year	
71	1613240011	ABHISHU KUMAR	ME 4 Year	
72	1613240012	ABHYUDAY SHAANDILYA	ME 4 Year	
73	1613240013	ADARSH KUMAR YADAV	ME 4 Year	
74	1613240016	AKSHAY YADAV	ME 4 Year	
75	1613240017	AMAN	ME 4 Year	
76	1613240018	AMAN BAJPAI	ME 4 Year	
77	1613240019	AMIT PRAKASH MURMU	ME 4 Year	
78	1613240020	AMRESHWAR PRATAP SINGH	ME 4 Year	
79	1613240021	ANIKET KUMAR	ME 4 Year	
80	1613240025	ANUPAM RAWAT	ME 4 Year	
81	1613240026	ANURAG PANDEY	ME 4 Year	
82	1613240027	APOORV CHITRANNSH KUDESHIYA	ME 4 Year	
83	1613240028	ARJUN UPADHYAY	ME 4 Year	
84	1613240029	ARMAN UL HAQ	ME 4 Year	
85	1613240033	ASHISH KUMAR SINGH	ME 4 Year	
86	1613240034	ASHWINI RAJ	ME 4 Year	
87	1613240036	ATUL KUMAR	ME 4 Year	
88	1613240037	AVESH ALAM	ME 4 Year	
89	1613240038	AVISHEK	ME 4 Year	
90	1613240039	BAIRISTER KUMAR SHARMA	ME 4 Year	
91	1613240040	CHAITANYA KUMAR	ME 4 Year	
92	1613240041	CHANDAN SHARMA	ME 4 Year	
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94	1613240050	DUSHYANT CHAUHAN	ME 4 Year	
95	1613240052	FUZAIL AHMAD	ME 4 Year	
96	1613240054	GAURAV TIWARI	ME 4 Year	
97	1613240055	GUDDU KUMAR PANDIT	ME 4 Year	
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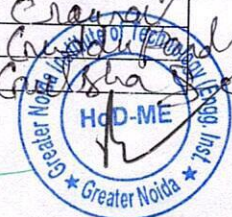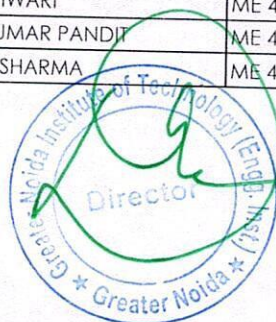
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101	1613240060	IMBESAT SIDDIQUI	ME 4 Year	
102	1613240062	ISHANK KUMAR SINGH	ME 4 Year	
103	1613240066	KARAN VISHWAKERMA	ME 4 Year	
104	1613240067	KIRTI KUMARI	ME 4 Year	
105	1613240068	KRISHANA MURARI	ME 4 Year	
106	1613240072	MANISHA GUPTA	ME 4 Year	
107	1613240073	MANOJ	ME 4 Year	
108	1613240074	MANOJ BHATT	ME 4 Year	
109	1613240075	MAYANK SHARMA	ME 4 Year	
110	1613240077	MD JAWED	ME 4 Year	
111	1613240078	MD WASIM	ME 4 Year	
112	1613240080	MD ASIF PERWEZ	ME 4 Year	
113	1613240081	MD AZAD KHAN	ME 4 Year	
114	1613240082	MD AZEEM KHAN	ME 4 Year	
115	1613240084	MD FARHAN RAZA	ME 4 Year	
116	1613240085	MD ISHTYAQ ALI ANSARI	ME 4 Year	
117	1613240090	MD SHADAN ANSARI	ME 4 Year	
118	1613240091	MD SHAHBAJ ALI KHAN	ME 4 Year	
119	1613240092	MD SHAHBAZ	ME 4 Year	
120	1613240093	MD TABREZ ALAM	ME 4 Year	
121	1613240096	MEHBOOB REZA	ME 4 Year	
122	1613240098	MITHUL SINGH	ME 4 Year	
123	1613240101	MOHAMMED SALAUDDIN	ME 4 Year	
124	1613240102	MOHD AMAN	ME 4 Year	
125	1613240104	MOHIT BHATT	ME 4 Year	
126	1613240105	MOHIT KUMAR	ME 4 Year	
127	1613240106	MS NIRMLA	ME 4 Year	
128	1613240107	NANDAN KUMAR	ME 4 Year	
129	1613240109	NIKHIL KUMAR DHAMA	ME 4 Year	
130	1613240110	NIMESH KUMAR	ME 4 Year	
131	1613240111	NISHANT KUMAR SHARMA	ME 4 Year	
132	1613240113	NITRANAND UPADHYAY	ME 4 Year	
133	1613240115	PRASHANT DUBEY	ME 4 Year	
134	1613240116	PRATEEK SRIVASTAVA	ME 4 Year	
135	1613240118	RAHMAT AHSAN SIDDIQUE	ME 4 Year	
136	1613240119	RAHUL KUMAR	ME 4 Year	
137	1613240120	RAHUL KUMAR	ME 4 Year	
138	1613240139	SHAHID RAZA	ME 4 Year	
139	1613240142	SHASHANK CHAUBEY	ME 4 Year	
140	1613240143	SHIVAM NISHAD	ME 4 Year	

Director

Signature of HOD
HOD ME
Dr. M P S Rawat
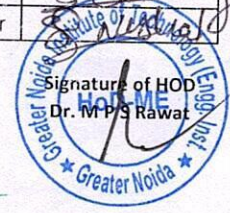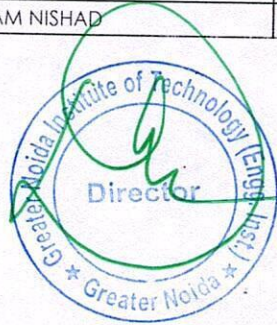
Department of Mechanical Engineering

Ref: - No. GNIOT/ME/ 2020/   Date: 20th Feb 2020

NOTICE

It is hereby informed to third students that as per the academic calendar the Mechanical Engineering Department is organizing an industrial visit in "Pro-Cast India Pressure Die Casting and Machining Pvt. Ltd." Plot-18, Sector-24, Faridabad, held on **29th Feb 2020.**
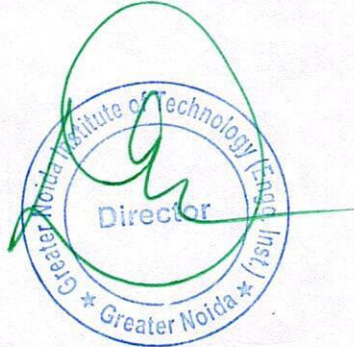
The students are advised to present in full strength and take the maximum benefit from the event.

Dr M P S Rawat

(HOD-ME)

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An Industrial Visit in

"Pro-Cast India Pressure Die Casting and Machining Pvt. Ltd"

Plot-18, Sector-24, Faridabad (NCR), India

Held On:

29th Feb, 2020

Organized by
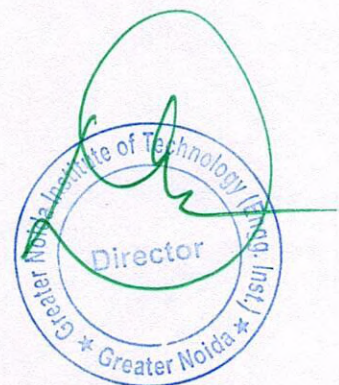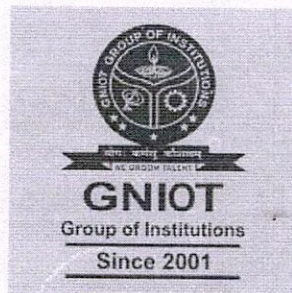
Department of Mechanical Engineering

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Activity Report

Department: - MECHANICAL ENGINEERING.

Activity: - An industrial visit in "Pro-Cast India Pressure Die Casting and Machining Pvt. Ltd.", Plot-18, Sector-24, Faridabad (NCR), India.

Held On: - 29th Feb., 2020

Visited By: - Mr. S. Q. Hussain (Assistant Professor, Mechanical Deptt.), Mr. Girendra Bhati, (Assistant Professor, Mechanical Deptt.) and Mechanical Third Year Students.

Brief Report: -

On 29th Feb., 2020, Mechanical Engineering Department has organized an industrial visit in "Pro-Cast India Pressure Die Casting and Machining Pvt. Ltd., Faridabad (NCR)" for ME-3rd year students. The students understood the practical knowledge about the various casting processes, their secondary machining processes and their inspection processes. Students got the knowledge about the construction, working principle and operation of various die casting processes. In this industry, mainly two types of die casting processes were used i.e. gravity die casting and pressure die casting processes. In pressure die casting processes, hot chamber and cold chamber were used.

Further, casting products were preceded for secondary machining processes to achieve better surface finish and dimensional accuracy. The secondary processes were performed on CNCs and VMCs machines. The coating and blasting processes were performed to achieve better surface finish and dimensional accuracy.

Also, students learnt about the construction and operations of spectrographic machine. In this industry, Argon flush based spectrographic machine was used. The function of this machine is to find the composition of different alloys.

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GREATER NOIDA INSTITUTE OF TECHNOLOGY (Engg. Institute)

Department of Mechanical Engineering
List of Students

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36	1713240082	SANDEEP KUMAR	ME 3 Year	
37	1713240083	SARTHAK KUMAR BATRA	ME 3 Year	
38	1713240084	SATISH NISHAD	ME 3 Year	

Director

HOD-ME
Signature of HOD
Dr. M P S Rawat

GNIOT **ENGG. INSTITUTE**

ग्रेटर नोएडा इंस्टीट्यूट ऑफ टेक्नोलॉजी (इंजीनियरिंग इंस्टीट्यूट)
GREATER NOIDA INSTITUTE OF TECHNOLOGY (Engg. Institute)

ELECTRICAL ENGINEERING DEPARTMENT

NOTICE

GNIOT/EE/2019/   **Date: 07/11/2019**

Subject: Seminar on "Innovative Projects as a Product"

The Electrical Engineering Department is going to organize a **"Seminar on Innovative Projects as a Product"** at GNIOT, Greater Noida on 11/11/2019. The students of B. Tech (EE) are required to attend the seminar. The objective of this seminar is to know about innovative projects.

Venue: GNIOT, Greater Noida

Date & Time: 11/11/2019 at 3.30 p.m.

Event Coordinator: Mr. Aneep Kumar

HOD (EE)

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REPORT

SEMINAR
On

"INNOVATIVE PROJECTSAS A PRODUCT"

11 NOVEMBER 2019

Organized by
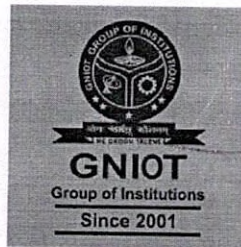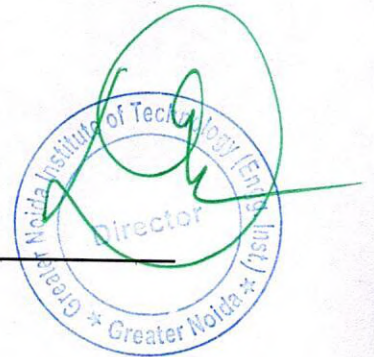
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Electrical Engineering Department

Innovative Projects as a Product

Date: 11.11.2019

GNIOT-Institution's Innovation Council in collaboration with ECE & EE department had organized a workshop on "Innovative Projects as a Product" on 11.11.2019 at 3:30 PM under the guidance of our dynamic director DrDhiraj Gupta.

Workshop was started with the lighting of lamp in front of goddess MaaSaraswati by DrAnuranjanMisra, Dean(R&D), DrVivek Gupta, Dr Anil Dubey, Mr Shiv Narain Gupta, DrPoojaSaxena and MrHarvinder Jindal of ECE department.

"A project is temporary in that it has a defined beginning and end in time, and therefore defined scope and resources. And a project is unique in that it is not a routine operation, but a specific set of operations designed to accomplish a singular goal."

"A product is a good, service, platform, application, system, etc., that is created, generally for sale, to meet customer and business needs. In retail and manufacturing, this may be taking materials and turning them into finished goods".

Speaker of the Event will be DrAnuranjanMisra, innovation Ambassador, Ministry of Education, Government of India. DrMisra told Students that Creating Project Plans to Focus Product Development is must. Students Projects must be Industry centric so that they can be converted into Products.

Outcome:

1. The students learned about the formal definitions of project and product.
2. They also learnt about how to make industry centric projects so that these can be converted into products.

5.1.3 Percentage of students benefitted by guidance of competitive examinations and career counseling offered by the institutions during the last five years (Institution Level)

Sr. No.	Year	Date	Name of Event	Role
			Expert Lecture , Seminar,Workshops and industrial visits (2019-20)	
1	2019-20	3rd March, 2020	SMART HACKS 2020	Organized
2	2019-20	10th June 2020	Organizational & Consumer Applications on Internet of Things	Organized
3	2019-20	28-Feb-20	Road Map to successful career	Organized
4	2019-20	23-10-19	"GOOD RESEARCH & INNOVATION PRACTICES"	Organized
5	2019-20	23-Nov-19	"Motivational Session for Successful Entrepreneurs"	Organized
6	2019-20	21-Nov-19	WORKSHOP ON PYTHON	Organized
7	2019-20	23-Aug-19	"Developing Online Repository of Start-ups Developed "	Organized
8	2019-20	18th Sep, 2019	big data analytics	Organized
9	2019-20	18th Nov, 2019	coding competition	Organized
10	2019-20	23th April 2020	ARTIFICIAL INTELLIGENCE	Organized
11	2019-20	07-11-19	National Cancer Awareness Day	Organized
12	2019-20	10-11/10/2019	Solar Photovoltaic System	Organized
13	2019-20	11-11-19	Innovative Projects as a Product	Organized
14	2019-20	17.07.2020	How to rank 1 on Google-SEO Basics	Organized
15	2019-20	01.11.2019	Application OfGis Data In Ground Water Data Determination	Organized
16	2019-20	17.01.2020	Design Of Android Application For Curing And Irrigation	Organized
17	2019-20	21-Sep-19	"Knowing what are the employer looking in US"	Organized
18	2019-20	11-Oct-19	"Assembling the I.C engine's main components"	Organized
19	2019-20	28-Feb-20	"Advanced ultrasuper critical (AUSC) technology	Organized
20	2019-20	29-Feb-20	"Pro-Cast india pressure die casting and machining Pvt. Ltd."	Organized

Director
Greater Noida Institute of Technology (Engg. Inst.)
Greater Noida

GNIOT ग्रेटर नोएडा इंस्टीट्यूट ऑफ टेक्नोलॉजी (इंजीनियरिंग इंस्टीट्यूट)
GREATER NOIDA INSTITUTE OF TECHNOLOGY (Engg. Institute)

Date: 08/07/2019

Civil Engineering Department

Circular

This is to inform all students that GATE classes are being conducted by the Civil Engineering Department according to the standard syllabus of GATE as per time table on working Saturday (Syllabus under current semester and previous semesters) Civil Engineering students are hereby informed that In-House GATE coaching will start from 13/07/2019. Kindly register your name to the departmental coordinator Mr. Vikas Nagar.

GATE scores are being used by several Indian public sector undertakings for recruiting graduate engineers' entry-level positions. It is one of the most important competitive examinations in India.

Note: Time-table is displayed on notice board.

Mr. Tarun Kumar
HOD
C.E DEPTT

IQAC-Coordinator
Greater Noida Institute of Technology
(Engineering Institute)
Greater Noida
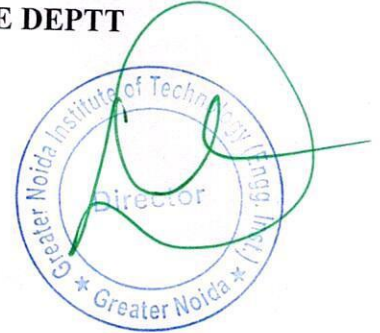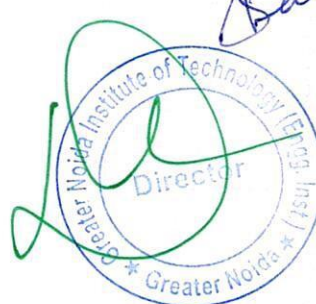
Department of Electronics and Communication Engineering
GATE Classes (Module)

Section -1	Engineering Mathematics	15 Hours
Section -2	Engineering Mechanics	13 Hours
Section -3	Solid Mechanics	13 Hours
Section -4	Strength of materials	13 Hours
Section -5	Structural Engineering	13 Hours
Section -6	Environmental Engineering	13 Hours
Section -7	Transportation Engineering	13 Hours
Section -8	Water Resources Engineering	13 Hours
Section -9	Concrete Structures	13 Hours
Section -10	Geotechnical Engineering	13 Hours
Section -11	Foundation Engineering	13 Hours
Section -12	Aptitude (APT)	15 Hours
Total		160 hours

IQAC Coordinator
Greater Noida Institute of Technology
(Engineering Institute)
Greater Noida

DETAILED SYLLABUS

Section 1: Engineering Mathematics

- **Linear Algebra:** Matrix Algebra, Systems of linear equations, Eigenvalues, Eigenvectors.
- **Calculus:** Mean value theorems, Theorems of integral calculus, Evaluation of definite and improper integrals, Partial Derivatives, Maxima and minima, Multiple integrals, Fourier series, Vector identities, Directional derivatives, Line integral, Surface integral, Volume integral, Stokes's theorem, Gauss's theorem, Divergence theorem, Green's theorem.
- **Differential equations:** First order equations (linear and nonlinear), Higher order linear differential equations with constant coefficients, Method of variation of parameters, Cauchy's equation, Euler's equation, Initial and boundary value problems, Partial Differential Equations, Method of separation of variables.
- **Complex variables:** Analytic functions, Cauchy's integral theorem, Cauchy's integral formula, Taylor series, Laurent series, Residue theorem, Solution integrals.
- **Probability and Statistics:** Sampling theorems, Conditional probability, Mean, Median, Mode, Standard Deviation, Random variables, Discrete and Continuous distributions, Poisson distribution, Normal distribution, Binomial distribution, Correlation analysis, Regression analysis.

- ## Section 2: Structural Engineering:

- **Engineering Mechanics:** System of forces, free-body diagrams, equilibrium equations; Internal forces in structures; Frictions and its applications; Centre of mass; Free Vibrations of undamped SDOF system.

- **Solid Mechanics:** Bending moment and shear force in statically determinate beams; Simple stress and strain relationships; Simple bending theory, flexural and shear stresses, shear centre; Uniform torsion, Transformation of stress; buckling of column, combined and direct bending stresses.

- **Structural Analysis:** Statically determinate and indeterminate structures by force/ energy methods; Method of superposition; Analysis of trusses, arches, beams, cables and frames;

- **Displacement methods:** Slope deflection and moment distribution methods; Influence lines; Stiffness and flexibility methods of structural analysis.

- **Construction Materials and Management:** Construction Materials: Structural Steel – Composition, material properties and behaviour; Concrete – Constituents, mix design, short-term and long-term properties.

- **Construction Management:** Types of construction projects; Project planning and network analysis – PERT and CPM; Cost estimation.

- **Concrete Structures:** Working stress and Limit state design concepts; Design of beams, slabs, columns; Bond and development length; Prestressed concrete beams.

- **Steel Structures:** Working stress and Limit state design concepts; Design of tension and compression members, beams and beam- columns, column bases; Connections – simple and eccentric, beam-column connections, plate girders and trusses; Concept of plastic analysis – beams and frames.

Section 3: Geotechnical Engineering

- **Soil Mechanics:** Three-phase system and phase relationships, index properties; Unified and Indian standard soil classification system; Permeability – one dimensional flow, Seepage through soils – two – dimensional flow, flow nets, uplift pressure, piping, capillarity, seepage force; Principle of effective stress and quicksand condition; Compaction of soils; One- dimensional consolidation, time rate of consolidation; Shear

Strength, Mohr's circle, effective and total shear strength parameters, Stress-Strain characteristics of clays and sand; Stress paths.

- **Foundation Engineering:** Sub-surface investigations – Drilling bore holes, sampling, plate load test, standard penetration and cone penetration tests; Earth pressure theories – Rankine and Coulomb; Stability of slopes –Finite and infinite slopes, Bishop's method; Stress distribution in soils – Boussinesq's theory; Pressure bulbs, Shallow foundations – Terzaghi's and Meyerhoff's bearing capacity theories, effect of water table; Combined footing and raft foundation; Contact pressure; Settlement analysis in sands and clays; Deep foundations – dynamic and static formulae, Axial load capacity of piles in sands and clays, pile load test, pile under lateral loading, pile group efficiency, negative skin friction.

Section 4: Water Resources Engineering

- **Fluid Mechanics:** Properties of fluids, fluid statics; Continuity, momentum and energy equations and their applications; Potential flow, Laminar and turbulent flow; Flow in pipes, pipe networks; Concept of boundary layer and its growth; Concept of lift and drag.

- **Hydraulics:** Forces on immersed bodies; Flow measurement in channels and pipes; Dimensional analysis and hydraulic similitude; Channel Hydraulics – Energy-depth relationships, specific energy, critical flow, hydraulic jump, uniform flow, gradually varied flow and water surface profiles.

- **Hydrology:** Hydrologic cycle, precipitation, evaporation, evapo-transpiration, watershed, infiltration, unit hydrographs, hydrograph analysis, reservoir capacity, flood estimation and routing, surface run-off models, groundwater hydrology – steady state well hydraulics and aquifers; Application of Darcy's Law.

- **Irrigation:** Types of irrigation systems and methods; Crop water requirements – Duty, delta, evapo-transpiration; Gravity Dams and Spillways; Lined and unlined canals, Design of weirs on permeable foundation; cross drainage structures.

Section 5: Environmental Engineering

- **Water and Waste Water Quality and Treatment:** Basics of water quality standards – Physical, chemical and biological parameters; Water quality index; Unit processes and operations; Water requirement; Water distribution system; Drinking water treatment.

- Sewerage system design, quantity of domestic wastewater, primary and secondary treatment. Effluent discharge standards; Sludge disposal; Reuse of treated sewage for different applications.

- **Air Pollution:** Types of pollutants, their sources and impacts, air pollution control, air quality standards, Air quality Index and limits.

- **Municipal Solid Wastes:**Characteristics, generation, collection and transportation of solid wastes, engineered systems for solid waste management (reuse/ recycle, energy recovery, treatment and disposal).
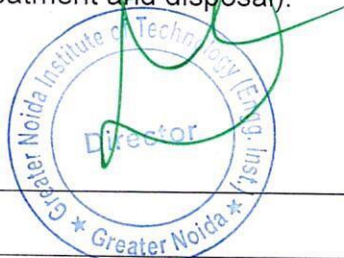
Transportation Engineering:

- **Transportation Infrastructure:** Geometric design of highways – cross-sectional elements, sight distances, horizontal and vertical alignments.
- Geometric design of railway Track – Speed and Cant,
- Concept of airport runway length, calculations and corrections; taxiway and exit taxiway design.
- **Highway Pavements:** Highway materials – desirable properties and tests; Desirable properties of bituminous paving mixes; Design factors for flexible and rigid pavements; Design of flexible and rigid pavement using IRC codes.
- **Traffic Engineering:** Traffic studies on flow and speed, peak hour factor, accident study, statistical analysis of traffic data; Microscopic and macroscopic parameters of traffic flow, fundamental relationships; Traffic signs; Signal design by Webster's method; Types of intersections; Highway capacity.

Section 7: Geomatics Engineering

- Principles of surveying; Errors and their adjustment; Maps – scale, coordinate system; Distance and angle measurement – Levelling and trigonometric levelling; Traversing and triangulation survey; Total station; Horizontal and vertical curves.
- Photogrammetry and Remote Sensing – Scale, flying height; Basics of remote sensing and GIS.
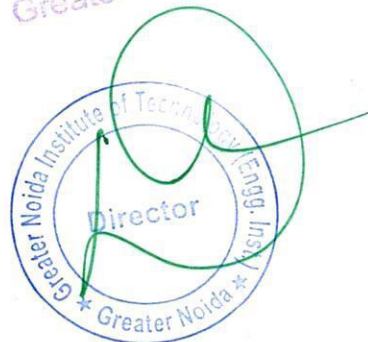
CIVIL ENGINEERING (Code-CE)
Session (2019-20)

Gate-2019 (Time Table)

w.e.f: 13/07/2019

S.NO	DATE/TIME	9:15-10:5	10:55-12:35	12:35-1:35	1:35-3:15	3:15-4:55
1	13 JULY 2019	EMc	SM		SoM	EM
2	20 JULY 2019	SM	EMc		SoM	APT
3	27 JULY 2019	SoM	SM		EMc	EM
4	03 AUG 2019	EMc	SM		SoM	APT
5	10 AUG 2019	SM	EMc		SoM	EM
6	17 AUG 2019	SM	SoM		EMc	APT
7	31 AUG 2019	SE	Env	BREAK	TE	EM
8	07 SEPT 2019	Env	SE		TE	APT
9	14 SEPT 2019	TE	Env		SE	EM
10	21 SEPT 2019	SE	TE		Env	APT
11	28 SEPT 2019	Env	SE		TE	EM
12	05 OCT 2019	TE	Env		SE	APT
13	12 OCT 2019	WRE	CT		GE	EM
14	02 NOV 2019	FE	WRE		CT	APT
15	16 NOV 2019	WRE	FE		CT	EM
16	23 NOV 2019	GE	FE		CT	APT
17	30 NOV 2019	GE	WRE		FE	EM
18	07 DEC 2019	GE	CT		WRE	APT
20	14 DEC 2019	WRE	FE		GE	APT
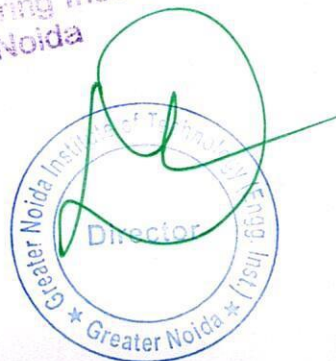
Subject allotted to faculty members

SL No	Subjects	Faculty
1	Engineering mathematics (EM)	**Dr. Nitash Kaushik**
2	Engineering Mechanics	Ms.KOMAL CHAUDHARY
3	Solid Mechanics	Mr.SHUBHRANSU
4	Strength of materials	Mr.MANJU
5	Structural Engineering	Mr.ROHIT SINGH
6	Environmental Engineering	Mr.CHIRAG SHARMA
7	Transportation Engineering	Mr.ANUJ KUMAR
8	Water Resources Engineering	Mr.VIKAS NAGAR
9	Concrete Structures	Ms.VASHWATI GHOSH
10	Geotechnical Engineering	Mr.DEEPAK PAL
11	Foundation Engineering	Mr. SUPRANSHU R MISHRA
12	Aptitude (APT)	Mr. Deepanshu

IQAC-Coordinator
Greater Noida Institute of Technology
(Engineering Institute)
Greater Noida

Director

List Of students

Sl No	ID NO	ROLL NO	NAME
1	151192	1513200010	ABHISHEK BHASKAR
2	151238	1513200006	ABHIJEET KUMAR
3	160047	1613200096	QUMRE AZAM
4	160064	1613200062	MD MASHRUR FAIZI KHAN
5	160071	1613200053	MD AMAN ANSARI
6	160122	1613200084	NASIR ASAD
7	160135	1613200043	KUNAL KAUSHIK
8	160142	1613200052	MD AFTAB ALAM
9	160143	1613200035	FARHAN AKHTAR KHAN
10	160146	1613200011	AKASH KUMAR
11	160170	1613200051	MD SHAMSHAD
12	160175	1613200068	MD SHAHNAWAZ ALAM
13	160196	1613200104	RAVI RANJAN
14	160206	1613200017	ANISH KUMAR SAH
15	160216	1613200005	ABHISHEK KUMAR
16	160221	1613213030	APURV PANDEY
17	160225	1613200055	MD FAIZ ALI
18	160227	1613200072	MOHAMMAD HARIS
19	160228	1613200074	MOHAMMAD ZEESHAN AZAM
20	160232	1613200110	SAURABH PANDEY
21	160428	1613200007	ADARSH
22	160441	1613200034	FARHAAD HASEEB
23	160452	1613200065	MD SAHZAD
24	160459	1613200071	MIRZA SHAHRUKH MOHSIN
25	160460	1613200023	AVINASH KUMAR
26	160672	1613200046	MANOJ RAUNIYAR
27	160677	1613200134	ZAHID AZAD
28	160690	1613200128	VISHAL SHARMA
29	160774	1613200001	AAJAM
30	160778	1613200014	AMIT KUMAR
31	160797	1613200076	MOHD AATIF
32	160825	1613200054	MD ARMAN ALAM
33	160826	1613200061	MD MAHTAB ALAM
34	160841	1613200105	RAVI PRAKASH SINGH
35	160845	1613200075	MOHAN KUMAR
36	160846	1613200048	MAYANK RAJ
37	160853	1613200013	AMIT KUMAR
38	160859	1613200012	ALOK VARDHAN
39	160867	1613200097	RAHMATULLAH RAINE
40	190839	1665400018	RAHUL KUMAR
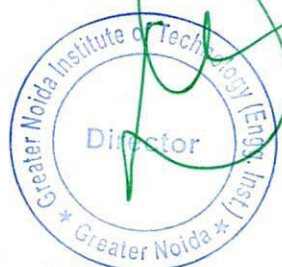
GATEFORUM
Engineering Success

|CE, GATE-2020, Paper-II|

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GENERAL ABILITY

Q. No. 1 - 5 Carry One Mark Each

1. Rescue teams deployed _____ disaster hit areas combat _____ a lot of difficulties to save the people.

    (A) to, to   (B) in, with   (C) with, at   (D) with, with

Answer: (D)

2. Select the most appropriate word that can replace the underlined word without changing the meaning of the sentence:

    Now-a-days, most children have a tendency to belittle the legitimate concerns of their parents.

    (A) Applaud   (B) Begrudge   (C) Disparage   (D) Reduce

Answer: (C)

3. In a school of 1000 students, 300 students play chess and 600 students play football. If 50 students play both chess and football, the number of students who play neither is _____.

    (A) 150   (B) 50   (C) 100   (D) 200

Answer: (A)

4. After the inauguration of the new building, the Head of Department (HOD) collated faculty preferences for office space. P wanted a room adjacent to the lab. Q wanted to be close to the lift. R wanted a view of the playground and S wanted a corner office.

    Assuming that everyone was satisfied, which among the following shows a possible allocation?

(A)

PLAYGROUND			
HoD	Q	R	S
P			LIFT
	LAB		

(B)

Road

PLAYGROUND			
	S	R	HoD	Q
P			LIFT
	LAB		

(C)

			PLAYGROUND		
	HoD	S	R	Q	
P				LIFT	
		LAB			

(D)

		PLAYGROUND		
Road	S	R	P	HoD
	Q			LIFT
		LAB		

Answer: (A)

5. If $f(x)=x^2$ for each $x \in (-\infty, \infty)$, then $\dfrac{f(f(f(x)))}{f(x)}$ is equal to _____.

(A) $(f(x))^2$ (B) $(f(x))^3$ (C) $(f(x))^4$ (D) $f(x)$

Answer: (B)

Q. No. 6 - 10 Carry One Mark Each

6. Nominal interest rate is defined as the amount paid by the borrower to the lender for using the borrowed amount for a specific period of time. Real interest rate calculated on the basis of actual value (inflation-adjusted), is approximately equal to the difference between nominal rate and expected rate of inflation in the economy. Which of the following assertions is best supported by the above information?

(A) Under low inflation, real interest rate is low and borrowers get benefited.

(B) Under high inflation, real interest rate is low and borrowers get benefited.

(C) Under low inflation, real interest rate is high and borrowers get benefited.

(D) Under high inflation, real interest rate is low and lenders get benefited.

Answer: (B)

7. For the year 2019, which of the previous year's calendar can be used?

(A) 2011 (B) 2013 (C) 2012 (D) 2014

Answer: (B)

8. The ratio of 'the sum of the odd positive integers from 1 to 100' to 'the sum of the even positive integers from 150 to 200' is _____.

   (A) 50: 91   (B) 1: 1   (C) 1: 2   (D) 45: 95

   Answer: (A)

9. Select the word that fits the analogy:

   Partial : Impartial : : Popular : _____

   (A) Impopular   (B) Dispopular   (C) Mispopular   (D) Unpopular

   Answer: (D)

10. The monthly distribution of 9 Watt LED bulbs sold by two firms X and Y from January to June 2018 is shown in the pie-chart and the corresponding table.

   Percentage of 9 Watt LED bulbs sold by the firms
   X and Y from January 2018 to June, 2018
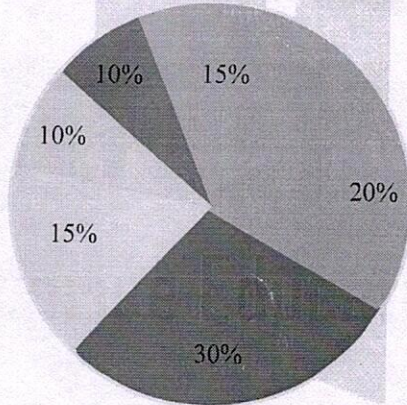
   January (15%)
   February (20%)
   March (30%)
   April (15%)
   May (10%)
   June (10%)

Month	Ratio of LED bulbs Sold by two firms (X : Y)
January	7 : 8
February	2 : 3
March	2 : 1
April	3 : 2
May	1 : 4
June	9 : 11

   If the total number of LED bulbs sold by two firms during April-June 2018 is 50000, then the number of LED bulbs sold by the firm Y during April-June 2018 is _____.

   (A) 11250   (B) 9750   (C) 8250   (D) 8750

   Answer: (*)
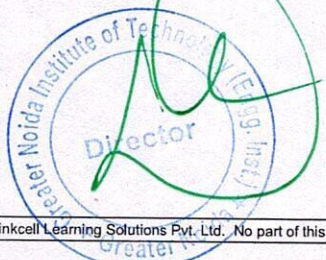
CIVIL ENGINEERING

Q. No. 1 to 25 Carry One Mark Each

1. Two identically sized primary settling tanks receive water for Type-I settling (discrete particles in dilute suspension) under laminar flow conditions. The Surface Overflow Rate (SOR) maintained in the two tanks are $30 m^3/m^2.d$ and $15 m^3/m^2.d$. The lowest diameters of the particles, which shall be settled out completely under SORs of $30 m^3/m^2.d$ and $15 m^3/m^2.d$. aredesignated as d_{30} and d_{15}, respectively. The ratio $\frac{d_{30}}{d_{15}}$ (round off to two decimal places), is _____.

Answer: **(1.414)**

2. The traffic starts discharging from an approach at an intersection with the signal turning green. The constant headway considered from the fourth or fifth headway position is referred to as

   (A) saturation headway   (B) effective headway

   (C) discharge headway   (D) intersection headway

Answer: **(A)**

3. As per IS 456:2000, the pH value of water for concrete mix shall **NOT** be less than

   (A) 6.0   (B) 5.0   (C) 4.5   (D) 5.5

Answer: **(A)**

4. The value of $\lim\limits_{x \to \infty} \dfrac{\sqrt{9x^2 + 2020}}{x + 7}$ is

   (A) $\dfrac{7}{9}$ (B) 1

   (C) indeterminable   (D) 3

Answer: **(D)**

5. The state of stress represented by Mohr's circle shown in the figure is
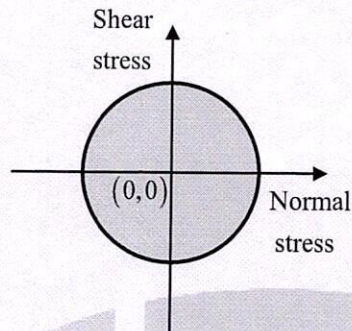
(A) hydrostatic stress

(B) uniaxial tension

(C) biaxial tension of equal magnitude

(D) pure shear

Answer: (D)

6. The maximum applied load on a cylindrical concrete specimen of diameter 150 mm and length 300 mm tested as per the split tensile strength test guidelines of IS 5816 : 1999is 157 kN. The split tensile strength (in MPa, round off to one decimal place) of the specimen is _____.

Answer: (2.22)

7. The ordinary differential equation $\dfrac{d^2u}{dx^2} - 2x^2u + \sin x = 0$ is

(A) linear and homogeneous

(B) non-linear and homogeneous

(C) non-linear and nonhomogeneous

(D) linear and nonhomogeneous

Answer: (D)

8. A fair (unbiased) coin is tossed 15 times. The probability of getting exactly 8 Heads(round off to three decimal places), is _____

Answer: (0.196)
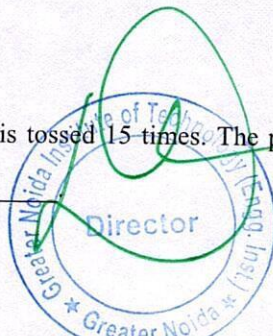
9. The ratio of the plastic moment capacity of a beam section to its yield moment capacity is termed as

   (A) aspect ratio   (B) load factor   (C) shape factor   (D) slenderness ratio

   Answer: (C)

10. A soil has dry weight of 15.5 kN/m^3, specific gravity of 2.65 and degree of saturation of 72%. Considering the unit weight of water as 10 kN/m^3, the water content of the soil (in %, round off to two decimal places) is _____.

   Answer: (19.28)

11. Soil deposit formed due to transportation by wind is termed as

   (A) lacustrine deposit   (B) alluvial deposit

   (C) estuarine deposit   (D) aeolian deposit

   Answer: (D)

12. A sample of 500 g dry sand, when poured into a 2 litre capacity cylinder which is partially filled with water, displaces 188 cm^3 of water. The density of water is 1 g/cm^3. The specific gravity of the sand is

   (A) 2.55   (B) 2.72   (C) 2.66   (D) 2.52

   Answer: (C)

13. For an axle load of 15 tonne on a road, the Vehicle Damage Factor (round off to two decimal places), in terms of the standard axle load of 8 tonne, is _____.

   Answer: (12.35)

14. Muskingum method is used in

   (A) hydrologic channel routing   (B) hydraulic channel routing

   (C) hydrologic reservoir routing   (D) hydraulic reservoir routing

   Answer: (B)
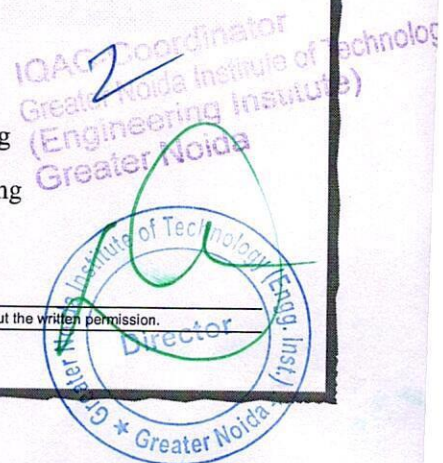
15. Superpassage is a canal cross-drainage structure in which

   (A) canal water flows under pressure below a natural stream

   (B) natural stream water flows under pressure below a canal

   (C) canal water flows with free surface below a natural stream

   (D) natural stream water flows with free surface below a canal

Answer: (C)

16. A gas contains two types of suspended particles having average sizes of 2 μm and 50 μm. Amongst the options given below, the most suitable pollution control strategy for removal of these particles is

   (A) electrostatic precipitator followed by cyclonic separator

   (B) bag filter followed by electrostatic precipitator

   (C) settling chamber followed by bag filter

   (D) electrostatic precipitator followed by venturi scrubber

Answer: (C)

17. 24-h traffic count at a road section was observed to be 1000 vehicles on a Tuesday in the month of July. If daily adjustment factor for Tuesday is 1.121 and monthly adjustment factor for July is 0.913, the Annual Average Daily Traffic (in veh/day, roundoff to the nearest integer) is _____.

Answer: (1023.473)

18. The relationship between oxygen consumption and equivalent biodegradable organic removal (i.e. BOD) in a closed container with respect to time is shown in the figure.
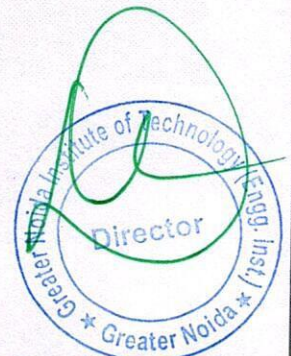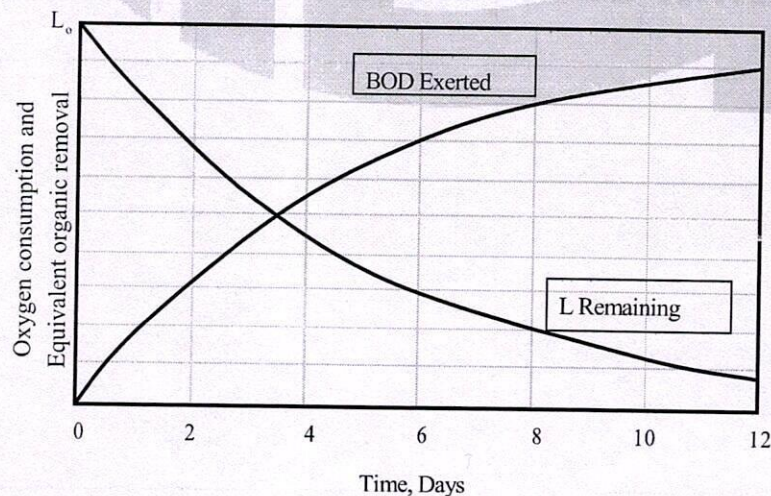
Assume that the rate of oxygen consumption is directly proportional to the amount of degradable organic matter and is expressed as $\dfrac{dL_t}{dt} = -kL_t$, where, L_t (in mg/litre) is the oxygen equivalent of the organics remaining at time t and k (in d^{-1})) is the degradation rate constant. L_0 is the oxygen equivalent of organic matter at time, t = 0.

In the above context, the correct expression is

(A) $BOD_5 = L_5$

(B) $BOD_t = L_0 - L_t$

(C) $L_0 = L_t e^{-kt}$

(D) $L_t = L_0 \left(1 - e^{-kt}\right)$

Answer: (B)

19. A one-dimensional consolidation test is carried out on a standard 19 mm thick clay sample. The oedometer's deflection gauge indicates a reading of 2.1 mm, just before removal of the load, without allowing any swelling. The void ratio is 0.62 at this stage. The initial void ratio (round off to two decimal places) of the standard specimen is _____.

Answer: (0.82)

20. The velocity components in the x and y directions for an incompressible flow are given as u = (−5 + 6x) and v = −(9 + 6y), respectively. The equation of the streamline is

(A) $(-5+6x)(9+6y) = $ constant

(B) $(-5+6x)-(9+6y) = $ constant

(C) $\dfrac{-5+6x}{9+6y} = $ constant

(D) $\dfrac{9+6y}{-5+6x} = $ constant

Answer: (A)

21. A weightless cantilever beam of span L is loaded as shown in the figure. For the entire span of the beam, the material properties are identical, and the cross-section is rectangular with constant width.
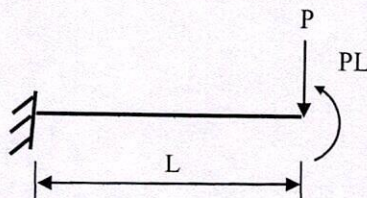
From the flexure-critical perspective, the most economical longitudinal profile of the beam to carry the given loads amongst the options given below, is

(A)

(B)

(C)

(D)
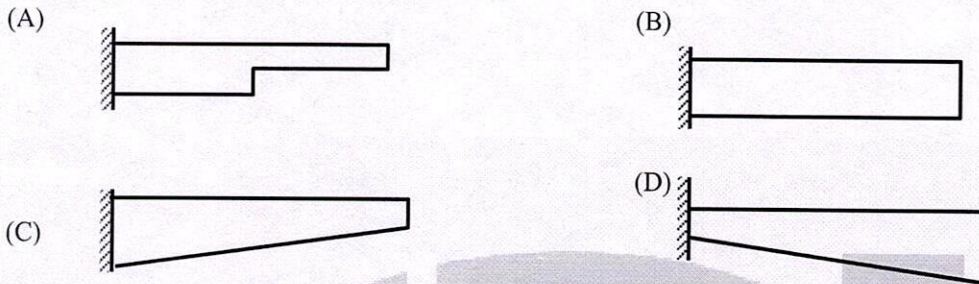
Answer: **(D)**

22. Velocity distribution in a boundary layer is given by $\dfrac{u}{U_\infty} = \sin\left(\dfrac{\pi}{2}\dfrac{y}{\delta}\right)$, where u is the velocity at vertical coordinate y, U_∞ is the free stream velocity and δ is the boundary layer thickness. The values of U_∞ and δ are 0.3m/s and 1.0m, respectively. The velocity gradient $\left(\dfrac{\partial u}{\partial y}\right)$ (in s^{-1}, round off to two decimal places) at y= 0, is _____.

Answer: **(0.47)**

23. The integral

$$\int_0^1 \left(5x^3 + 4x^2 + 3x + 2\right)dx$$

is estimated numerically using three alternative methods namely the rectangular, trapezoidaland Simpson's rules with a common step size. In this context, which one of the followingstatements is TRUE?

(A) Simpson's rule as well as rectangular rule of estimation will give NON- zero error.

(B) Only Simpson's rule of estimation will give zero error.

(C) Simpson's rule, rectangular rule as well as trapezoidal rule of estimation will give NON-zero error.

(D) Only the rectangular rule of estimation will give zero error.

Answer: **(B)**

24. The following partial differential equation is defined for u: u (x, y)

$$\frac{\partial u}{\partial y} = \frac{\partial^2 u}{\partial x^2}; \quad y \geq 0; \; x_1 \leq x \leq x_2$$

The set of auxiliary conditions necessary to solve the equation uniquely, is

(A) one initial condition and two boundary conditions

(B) three initial conditions

(C) two initial conditions and one boundary condition

(D) three boundary conditions

Answer: (A)

25. A triangular direct runoff hydrograph due to a storm has a time base of 90 hours. The peak flow of 60m³/s occurs at 20 hours from the start of the storm. The area of catchment is 300 km². The rainfall excess of the storm (in cm), is

(A) 5.40   (B) 2.00   (C) 3.24   (D) 6.48

Answer: (C)

<u>Q. No. 26-55 Carry Two Marks Each</u>

26. Permeability tests were carried out on the samples collected from two different layers as shown in the figure (not drawn to the scale). The relevant horizontal (k_h) and vertical (k_v) coefficients of permeability are indicated for each layer.
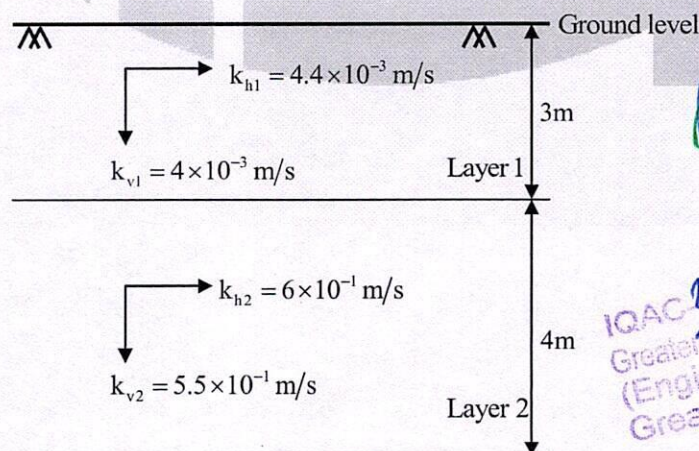
Ground level

$k_{h1} = 4.4 \times 10^{-3}$ m/s

3m

$k_{v1} = 4 \times 10^{-3}$ m/s   Layer 1

$k_{h2} = 6 \times 10^{-1}$ m/s

4m

$k_{v2} = 5.5 \times 10^{-1}$ m/s

Layer 2

The ratio of the equivalent horizontal to vertical coefficients of permeability, is

(A) 37.29   (B) 80.20   (C) 0.03   (D) 68.25

Answer: (A)

27. A 10 m high slope of dry clay soil (unit weight = 20 kN/m³), with a slope angle of 45° and the circular slip surface, is shown in the figure (not drawn to the scale). The weight of the slip wedge is denoted by W. The undrained unit cohesion (c_u) is 60 kPa.
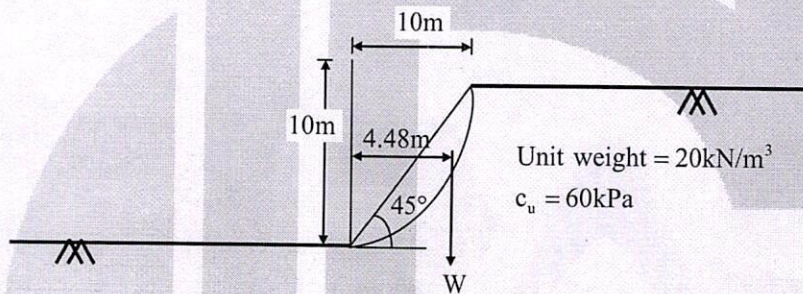
The factor of safety of the slope against slip failure, is

(A) 0.58   (B) 1.84   (C) 1.57   (D) 1.67

Answer: (B)

28. A hydraulic jump occurs, in a triangular (V-shaped) channel with side slopes 1:1 (vertical to horizontal). The sequent depths are 0.5 m and 1.5 m. The flow rate (in m³/s, round off to two decimal places) in the channel is _____.

Answer: (1.73)

29. The diameter and height of a right circular cylinder are 3 cm and 4 cm, respectively. The absolute error in each of these two measurements is 0.2 cm. The absolute error in the computed volume (in cm³, round off to three decimal places), is _____.

Answer: (5.184)

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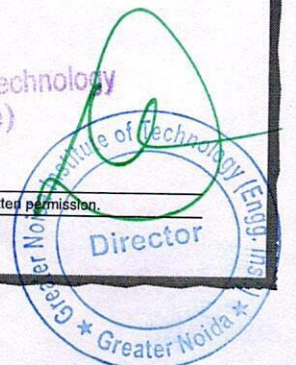
30. The planar structure RST shown in the figure is roller-supported at S and pin-supported at R. Members RS and ST have uniform flexural rigidity (EI) and S is a rigid joint. Consider only bending deformation and neglect effects of self-weight and axial stiffening.
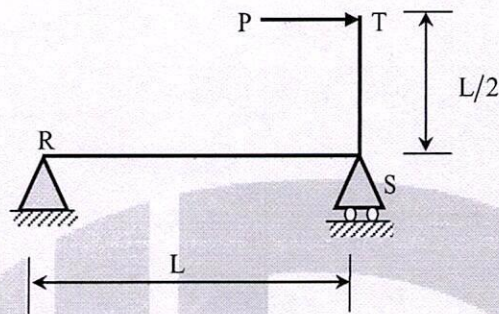
When the structure is subjected to a concentrated horizontal load P at the end T, themagnitude of rotation at the support R, is

(A) $\dfrac{PL^2}{12EI}$ (B) $\dfrac{PL^2}{6EI}$ (C) $\dfrac{PL^3}{12EI}$ (D) $\dfrac{PL}{6EI}$

Answer: (A)

31. The flow-density relationship of traffic on a highway is shown in the figure
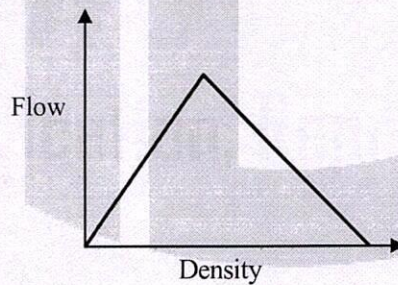
The correct representation of speed-density relationship of the traffic on this highway is

(A)

(B)

(C)

(D)
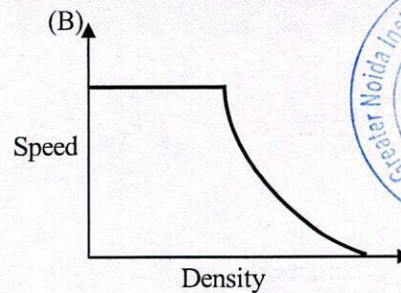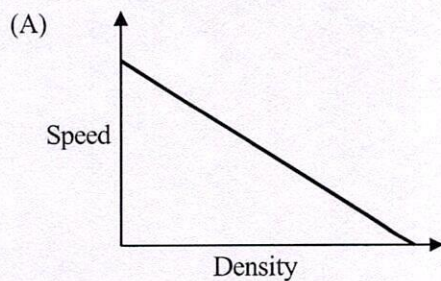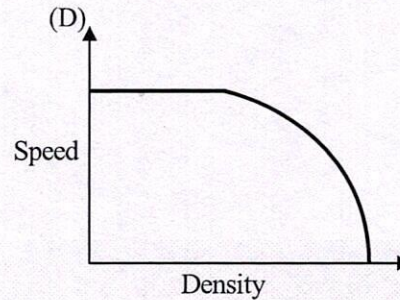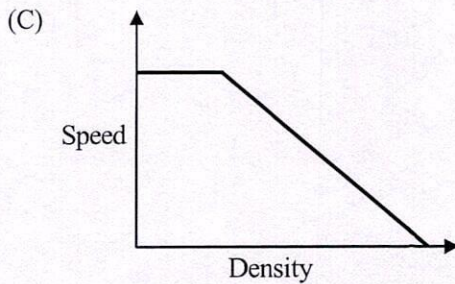
Answer: (B)

32. A sample of water contains an organic compound $C_8H_{16}O_8$ at a concentration of 10^{-3} mol/litre. Given that the atomic weight of C = 12 g/mol, H = 1 g/mol, and O = 16 g/mol, the theoretical oxygen demand of water (in g of O_2 per litre, round off to two decimal places), is _____.

Answer: (0.256)

33. A concrete dam holds 10 m of static water as shown in the figure (not drawn to the scale). The uplift assumed to vary linearly from full hydrostatic head at the heel, to zero at the toe of dam.
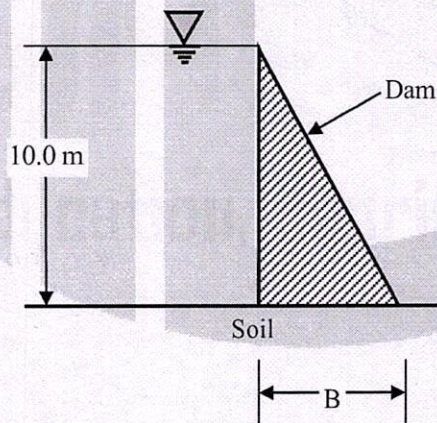
The coefficient of friction between the dam and foundation soil is 0.45. Specific weights of concrete and water are 24 kN/m^3 and 9.81 kN/m^3, respectively.

For NO sliding condition, the required minimum base width B (in m, round off to two decimal places) is

_____.

Answer: (15.873)

34. A footing of size 2 m × 2 m transferring a pressure of 200 kN/m^2, is placed at a depth of 1.5 m below the ground as shown in the figure (not drawn to the scale). The clay stratum is normally consolidated.
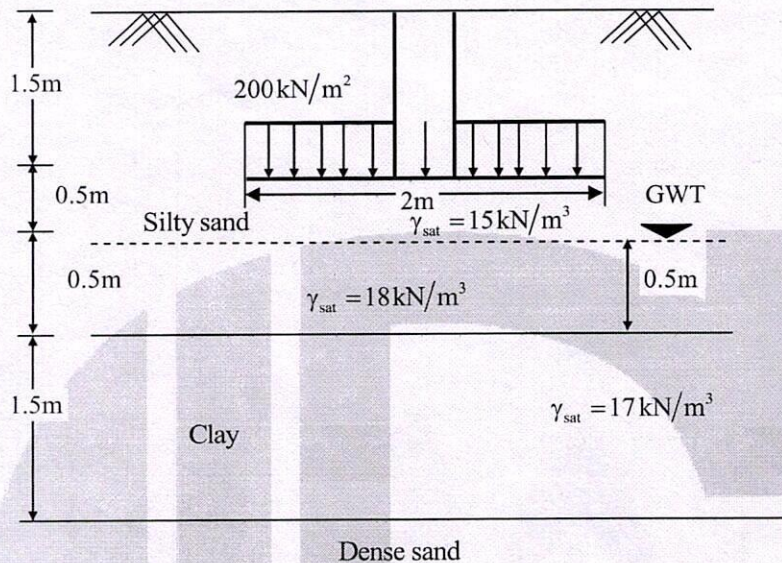
The clay has specific gravity of 2.65 and compression index of 0.3.

Considering 2: 1 (vertical to horizontal) method of load distribution and $\gamma_w = 10$ kN/m^3, the primary consolidation settlement (in mm, round off to two decimal places) of the clay stratum is _____.

Answer: (74.28)

35. A prismatic linearly elastic bar of length L, cross-sectional area A, and made up of a material with Young's modulus E, is subjected to axial tensile force as shown in the figures. When the bar is subjected to axial tensile force P_1 and P_2, the strain energies stored in the bar are U_1 and U_2, respectively.
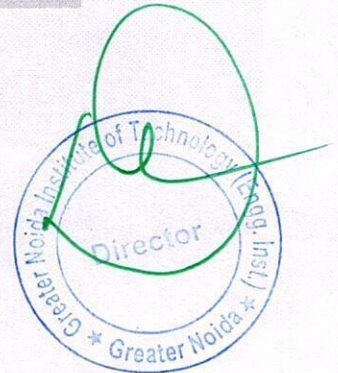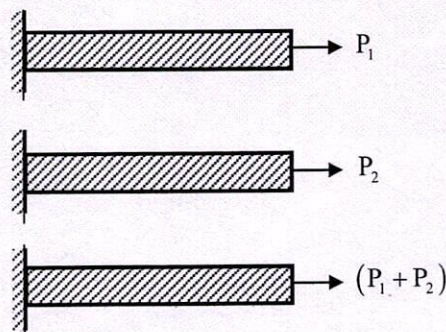
If U is the strain energy stored in the same bar when subjected to an axial tensile force ($P_1 + P_2$), the correct relationship is

(A) $U = U_1 - U_2$ (B) $U > U_1 + U_2$ (C) $U = U_1 + U_2$ (D) $U < U_1 + U_2$

Answer: **(B)**

36. Alkalinity of water, in equivalent/litre/(eq/litre), is given by

$$\{HCO_3^-\} + 2\{CO_3^{2-}\} + \{OH^-\} - \{H^+\}$$

Where, $\{\}$ represents concentration in mol/litre, $CO_3^{2-} = 3.04 \times 10^{-4}$ mol/litre and the pH of water = 9.0. The atomic weights are : Ca = 40; C = 12 and O = 16. If the concentration of OH^- and H^+ are NEGLECTED, the alkalinity of the water sample (in mg/litre as $CaCO_3$), is

(A) 100.0   (B) 50.0   (C) 65.2   (D) 130.4

Answer: **(D)**

37. A theodolite was set up at a station P. The angle of depression to a vane 2 m above the foot of a staff held at another station Q was 45°. The horizontal distance between stations P and Q is 20 m. The staff reading at a benchmark S of RL 433.050 m is 2.905 m. Neglecting the errors due to curvature and refraction, the RL of the station Q (in m), is

(A) 431.050   (B) 435.955   (C) 413.050   (D) 413.955

Answer: **(D)**

38. The cross-section of the reinforced concrete beam having an effective depth of 500 mm is shown in the figure (not drawn to the scale). The grades of concrete and steel used are M35 and Fe550, respectively. The area of tension reinforcement is 400 mm². It is given that corresponding to 0.2% proof stress, the material safety factor is 1.15 and the yield strain of Fe550 steel is 0.0044.

$A_{st} = 400mm^2$
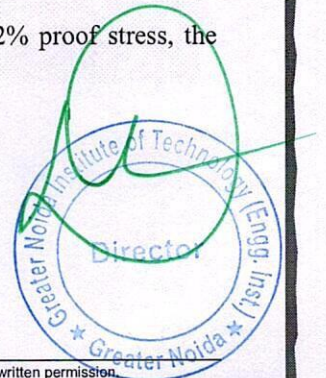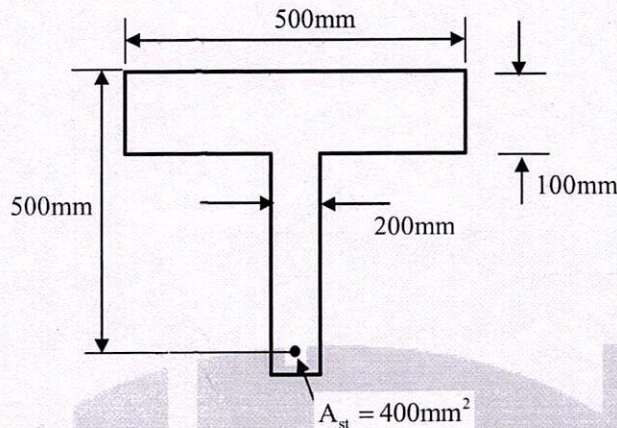
As per IS 456:2000, the limiting depth (in mm, round off to the nearest integer) of the neutral axis measured from the extreme compression fiber, is _____.

Answer: **(221.52)**

39. A cast iron pipe of diameter 600 mm and length 400 m carries water from a tank and discharges freely into air at a point 4.5 m below the water surface in the tank. The friction factor of the pipe is 0.018. Consider acceleration due to gravity as 9.81 m/s². The velocity of the flow in pipe (in m/s, round off to two decimal places) is _____.

Answer: **(2.557)**

40. A theodolite is set up at station A. The RL of instrument axis is 212.250 m. The angle of elevation to the top of a 4 m long staff, held vertical at station B, is 7°. The horizontal distance between station A and B is 400 m. Neglecting the errors due to curvature of earth and refraction, the RL (in m, round off to three decimal places) of station B is _____.

Answer: **(257.36)**

41. An ordinary differential equation is given below:

$$6\frac{d^2y}{dx^2} + \frac{dy}{dx} - y = 0$$
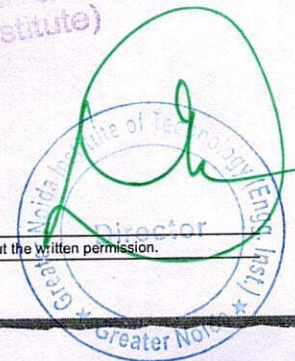
(A) $y(x) = C_1 e^{\frac{x}{3}} + C_2 e^{-\frac{x}{2}}$

(B) $y(x) = C_1 x e^{-\frac{x}{3}} + C_2 e^{\frac{x}{2}}$

(C) $y(x) = C_1 e^{-\frac{x}{3}} + C_2 e^{\frac{x}{2}}$

(D) $y(x) = C_1 e^{-\frac{x}{3}} + C_2 x e^{\frac{x}{2}}$

Answer: (A)

42. A concrete beam of span 15 m, 150 mm wide and 350 mm deep is prestressed with a parabolic cable as shown in the figure (not drawn to the scale). Coefficient of friction for the cable is 0.35, and coefficient of wave effect is 0.0015 per metre.
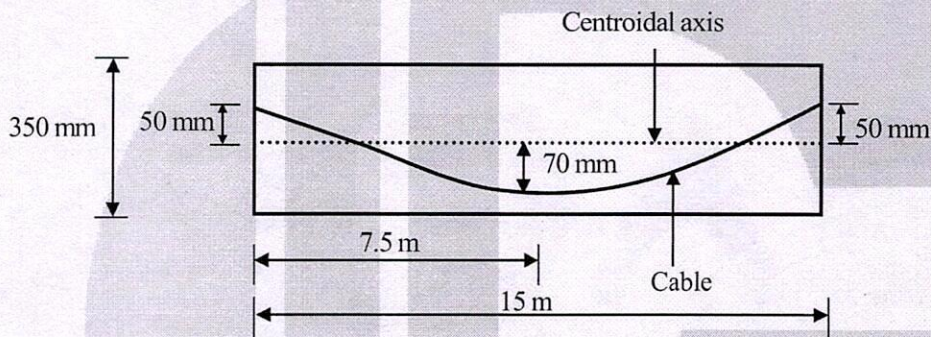
If the cable is tensioned from one end only, the percentage loss (round off to one decimal place) in the cable force due to friction, is _____.

Answer: (4.49)

43. Joints I, J, K, L, Q and M of the frame shown in the figure (not drawn to the scale) are pins. Continuous members IQ and LJ are connected through a pin at N. Continuous members JM and KQ are connected through a pin at P.
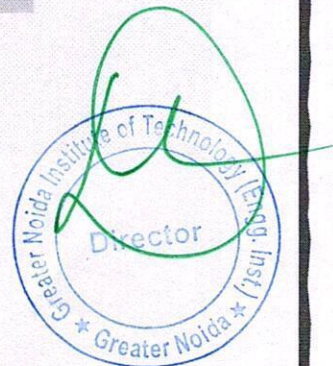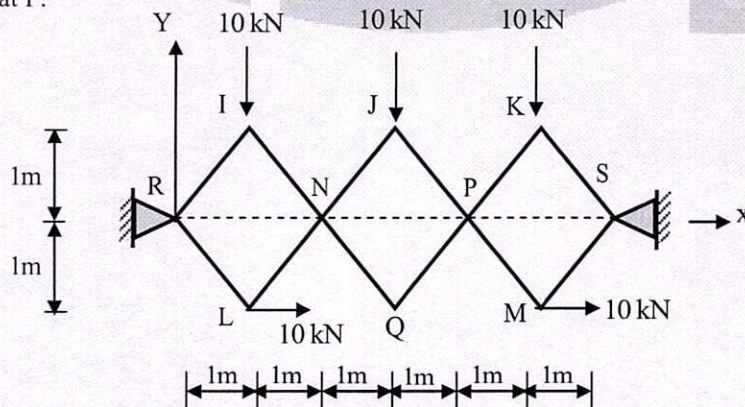
The frame has hinge supports at joints R and S. The loads acting at joints I, J and K are along the negative Y direction and the loads acting at joints L, M are along thepositive X direction.

The magnitude of the horizontal component of reaction (in kN) at S, is

(A) 15 (B) 10 (C) 5 (D) 20

Answer: (A)

44. A 5 m high vertical wall has a saturated clay backfill. The saturated unit weight and cohesion of clay are 18 kN/m^3 and 20 kPa, respectively. The angle of internal friction of clay is zero. In order to prevent development of tension zone, the height of the wall is required to be increased. Dry sand is used as backfill above the clay for the increased portion of the wall. The unit weight and angle of internal friction of sand are 16 kN/m^3 and 30°, respectively. Assume that the back of the wall is smooth and top of the backfill is horizontal. To prevent the development of tension zone, the minimum height (inm,round off to one decimal place) by which the wall has to be raised, is _____.

Answer: (2.5)

45. The ion product of water (pK_w) is 14. If a rain water sample has a pH of 5.6, the concentration of OH^- in the sample (in 10^{-9} mol/litre, round off to one decimal place), is _____.

Answer: (3.981)

46. A waste to energy plant burns dry solid waste of composition: Carbon = 35%, Oxygen = 26%, Hydrogen = 10%, Sulphur = 6%, Nitrogen = 3% and Inerts = 20%. Burning rate is 1000 tonnes/d. Oxygen in air by weight is 23%. Assume complete conversion of Carbon to CO_2. Hydrogen to H_2O, Sulphur to $SO_2$and Nitrogen to NO_2.

Given Atomic weighs:H = 1, C = 12, N = 14, O = 16, S = 32.

The stoichiometric (theoretical) amount of air (in tonnes/d, round off to the nearest integer) required for complete burning of this waste, is _____.

Answer: (6956.5)
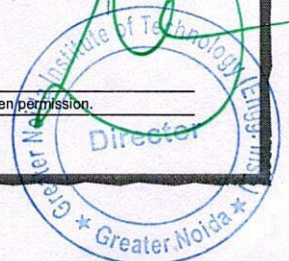
47. The Fourier series to represent $x - x^2$ for $-\pi \le x \le \pi$ is given by

$$x - x^2 = \frac{a_0}{2} + \sum_{n=1}^{\infty} a_n \cos nx + \sum_{n=1}^{\infty} b_n \sin nx$$

The value of a_0 (round off to two decimal places), is _____.

Answer: (-6.58)

48. The plane truss has hinge supports at P and W and is subjected to the horizontal forces as shown in the figure (not drawn to the scale).
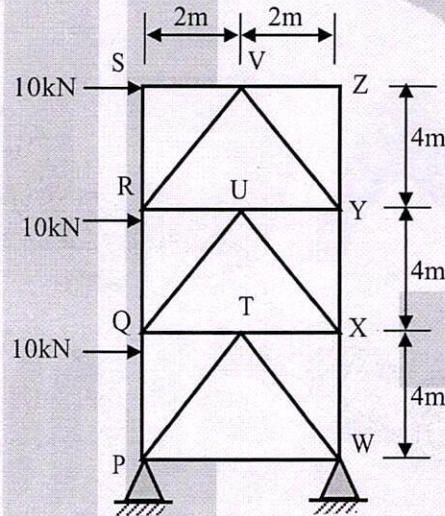
Representing the tensile force with '+' sign and the compressive force with '−' sign, the force in member XW (in kN, round off to the nearest integer), is _____.

Answer: (30)

49. For the hottest month of the year at the proposed airport site, the monthly mean of the average daily temperature is 39°C. The monthly mean of the maximum daily temperature is 48°C for the same month of the year. From the given information, the calculated Airport Reference Temperature (in°C), is

(A) 42   (B) 39   (C) 36   (D) 48

Answer: (A)

50. A constant-head permeability test was conducted on a soil specimen under a hydraulic gradient of 2.5. The soil specimen has specific gravity of 2.65 and saturated water content of 20%. If the coefficient of permeability of the soil is 0.1 cm/s, the seepage velocity (in cm/s, round off to two decimal places) through the soil specimen is _____.

Answer: (0.72)

51. The design speed of a two-lane two-way road is 60 km/h and the longitudinal coefficient of friction is 0.36. The reaction time of a driver is 2.5 seconds. Consider acceleration due to gravity as 9.8 m/s². The intermediate sight distance (in m, round off to the nearest integer) required for the road is _____.

Answer: (162)

52. Crops are grown in a field having soil, which has field capacity of 30% and permanent wilting point of 13%. The effective depth of root zone is 80 cm. Irrigation water is supplied when the average soil moisture drops to 20%. Consider density of the soil as 1500 kg/m³ and density of water as 1000 kg/m³. If the daily consumptive use of water for the crops is 2 mm, the frequency of irrigating the crops (in days), is

(A) 7   (B) 13   (C) 10   (D) 11

Answer: (*)

53. A 4 × 4 matrix [P] is given below:

$$[P] = \begin{bmatrix} 0 & 1 & 3 & 0 \\ -2 & 3 & 0 & 4 \\ 0 & 0 & 6 & 1 \\ 0 & 0 & 1 & 6 \end{bmatrix}$$

The eigen values of [P] are

(A) 1, 2, 3, 4   (B) 0, 3, 6, 6   (C) 3, 4, 5, 7   (D) 1, 2, 5, 7

Answer: (D)
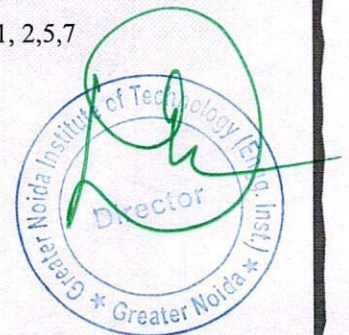
54. Group-I gives a list of test methods for evaluating properties of aggregates. Group-II gives the list of properties to be evaluated.

Group-I: Test Methods		Group-II: Properties	
P.	Soundness test	1.	Strength
Q.	Crushing test	2.	Resistance to weathering
R.	Los Angeles abrasion test	3.	Adhesion
S.	Stripping value test	4.	Hardness

The correct match of test methods under Group-I to properties under Group-II, is

(A) P-4, Q-1, R-2, S-3

(B) P-2, Q-4, R-3, S-1

(C) P-2, Q-1, R-4, S-3

(D) P-3, Q-4, R-1, S-2

Answer: (C)

55. Two steel plates are lap jointed in a workshop using 6 mm thick fillet weld as shown in the figure (not drawn to the scale). The ultimate strength of the weld is 410 MPa.
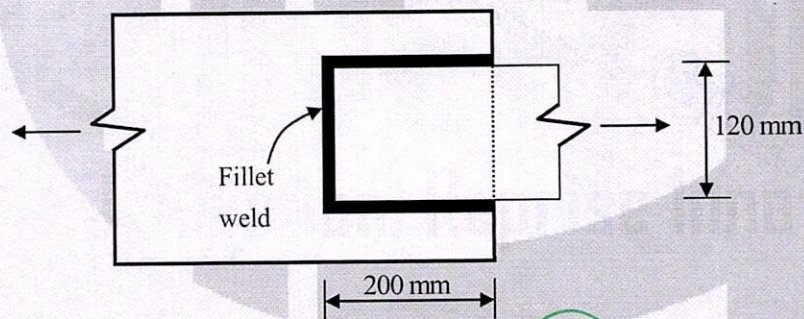
As per Limit State Design is IS 800: 2007, the design capacity (in kN, round off to three decimal places) of the welded connection, is _____.

Answer: (413.6)

★★★ END OF THE PAPER ★★★

Date: 08/07/2019

Mechanical Engineering (Code-ME)
Circular

This is to inform all students that GATE classes are being conducted by the **Mechanical Engineering Department (Code-ME)**according to the standard syllabus of GATE as per time table on working Saturday (Syllabus under current semester and previous semesters) **Mechanical Engineering Department (Code-ME)**students are hereby informed that In-House GATE coaching will start from 13/07/2019. Kindly register your name to the departmental coordinator Mr. S Q Hussain.

GATE scores are being used by several Indian public sector undertakings for recruiting graduate engineersfor entry-level positions. It is one of the most important competitive examinations in India.

Note: Time-Table is displayed on the notice board.

Dr. Sidhi66 Kumar
HoD, ME Department

IQAC Coordinator
Greater Noida Institute of Technology
(Engineering Institute)
Greater Noida

Mechanical Engineering (Code-ME)

GATE Classes (Module)

Section -1	Engineering Mathematics (MATH)	15 Hours
Section -2	Fluid Mechanics	13 Hours
Section -3	Thermodynamics	13 Hours
Section -4	Heat Transfer	13 Hours
Section -5	Engineering Materials	13 Hours
Section -6	Casting	13 Hours
Section -7	Forming and Joining Process	13 Hours
Section -8	Machining and Machine Tool Operations	13 Hours
Section -9	General Aptitude (GA)	15 Hours
	Total	121 hours

Director

H.O.D., ME

IQAC-Coordinator
Greater Noida Institute of Technology
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Section 1: Engineering Mathematics

Linear Algebra: Vector space, basis, linear dependence and independence, matrix algebra, eigen values and eigen vectors, rank, solution of linear equations – existence and uniqueness. Calculus: Mean value theorems, theorems of integral calculus, evaluation of definite and improper integrals, partial derivatives, maxima and minima, multiple integrals, line, surface and volume integrals, Taylor series. Differential Equations: First order equations (linear and nonlinear), higher order linear differential equations, Cauchy's and Euler's equations, methods of solution using variation of parameters, complementary function and particular integral, partial differential equations, variable separable method, initial and boundary value problems. Vector Analysis: Vectors in plane and space, vector operations, gradient, divergence and curl, Gauss's, Green's and Stoke's theorems. Complex Analysis: Analytic functions, Cauchy's integral theorem, Cauchy's integral formula; Taylor's and Laurent's series, residue theorem. Numerical Methods: Solution of nonlinear equations, single and multi-step methods for differential equations, convergence criteria. Probability and Statistics: Mean, median, mode and standard deviation; combinatorial probability, probability distribution functions – binomial, Poisson, exponential and normal; Joint and conditional probability; Correlation and regression analysis.

Section 2: Fluid Mechanics:

Fluid properties; fluid statics, forces on submerged bodies, stability of floating bodies; control-volume analysis of mass, momentum and energy; fluid acceleration; differential equations of continuity and momentum; Bernoulli's equation; dimensional analysis; viscous flow of incompressible fluids, boundary layer, elementary turbulent flow, flow through pipes, head losses in pipes, bends and fittings; basics of compressible fluid flow

Section 3: Thermodynamics:

Thermodynamic systems and processes; properties of pure substances, behavior of ideal and real gases; zeroth and first laws of thermodynamics, calculation of work and heat in various processes; second law of thermodynamics; thermodynamic property charts and tables, availability and irreversibility; thermodynamic relations.

Section 4: Heat-Transfer:

Modes of heat transfer; one dimensional heat conduction, resistance concept and electrical analogy, heat transfer through fins; unsteady heat conduction, lumped parameter system, Heisler's charts; thermal boundary layer, dimensionless parameters in free and forced convective heat transfer, heat transfer correlations for flow over flat plates and through pipes, effect of turbulence; heat exchanger performance, LMTD and NTU methods; radioactive heat transfer, Stefan- Boltzmann law, Wien's displacement law, black and grey surfaces, view factors, radiation network analysis

Section 5: Engineering Materials:

Structure and properties of engineering materials, phase diagrams, heat treatment, stress-strain diagrams for engineering materials.

Section 6: Casting:

Different types of castings, design of patterns, moulds and cores; solidification and cooling; riser and gating design.

Section 7: Forming and Joining Processes:

Plastic deformation and yield criteria; fundamentals of hot and cold working processes; load estimation for bulk (forging, rolling, extrusion, drawing) and sheet (shearing, deep drawing, bending) metal forming processes; principles of powder metallurgy. Principles of welding, brazing, soldering and adhesive bonding.

Section 8: Machining and Machine Tool Operations:

Mechanics of machining; basic machine tools; single and multi-point cutting tools, tool geometry and materials, tool life and wear; economics of machining; principles of non-traditional machining processes; principles of work holding, jigs and fixtures; abrasive machining processes; NC/CNC machines and CNC programming.

Section 9: General Aptitude (APT)

Verbal Aptitude: Basic English grammar: tenses, articles, adjectives, prepositions, conjunctions, verb-noun agreement, and other parts of speech Basic vocabulary: words, idioms, and phrases in context Reading and comprehension Narrative sequencing

Quantitative Aptitude: Data interpretation: data graphs (bar graphs, pie charts, and other graphs representing the data), 2- and 3-dimensional plots, maps, and tables Numerical computation and estimation: ratios, percentages, powers, exponents and logarithms, permutations and combinations, and series Mensuration and geometry Elementary statistics and probability.

Analytical Aptitude: Logic: deduction and induction, Analogy, Numerical relations and reasoning.

Spatial Aptitude: Transformation of shapes: translation, rotation, scaling, mirroring, assembling, and grouping Paper folding, cutting, and patterns in 2 and 3 dimensions.
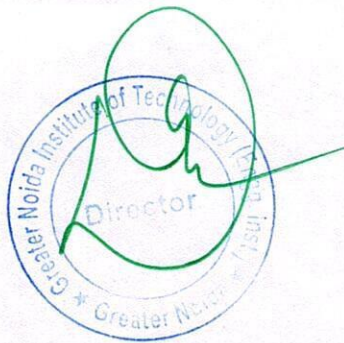
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Mechanical Engineering (Code-ME)

Session (2019-20)
GATE CLASSES-TimeTable

Room No:

w.e.f: 13/07/2019

S.NO	DATE/TIME	9:15-10:55	10:55-12:35	12:35-1:35	1:35-3:15	3:15-4:55
1	14 July 2018	EM	FM		TD	MATH
2	21 July2018	CT	FJ		MMTO	APT
3	28 July 2018	EM	FM		TD	MATH
4	4 Aug 2018	CT	FJ		MMTO	APT
5	11 Aug 2018	EM	FM		TD	MATH
6	18 Aug 2018	CT	FJ		MMTO	APT
7	1 Sep 2018	EM	FM		TD	MATH
8	8 Sep 2018	CT	FJ		MMTO	APT
9	15 Sep 2018	EM	FM	BREAK	TD	MATH
10	6 Oct 2018	CT	FJ		HT	APT
11	13 Oct 2018	EM	FM		MI	MATH
12	27 Oct 2018	CT	FJ		HT	APT
13	3 Nov 2018	EM	FM		MI	MATH
14	10 Nov 2018	CT	FJ		HT	APT
15	17 Nov 2018	EM	FM		MI	MATH
16	27 Nov 2018	CT	FJ		HT	APT
17	1 Dec 2018	EM	FM		MI	MATH
18	15 Dec 2018	PREVIOUS PAPER DISCUSSION			NAS	APT
19	22 Dec 2018	PREVIOUS PAPER DISCUSSION			ED	MATH
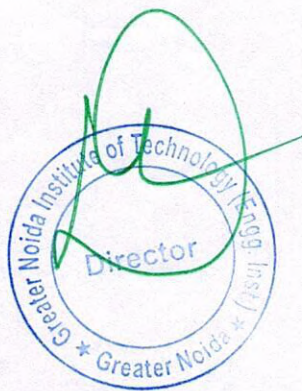
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Subject allotted to faculty members
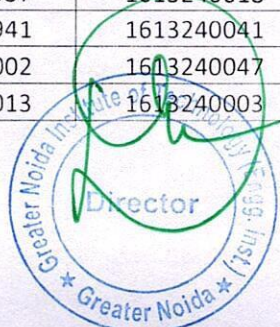
Sr. No	Subjects	Faculty
1	Engineering Mathematics (MATH)	Dr. Nitash Kaushik
2	Fluid Mechanics	Mr. Trinath Mahala
3	Thermodynamics	Mr. Sandeep Patidar
4	Heat Transfer	Mr. S Q Hussain
5	Engineering Materials	Mr. Gagan Varshney
6	Casting	Dr. Vaibhav Gangwar
7	Forming and Joining Process	Mr. Prabhakar
8	Machining and Machine Tool Operations	Mr. Girendra Bhati
9	General Aptitude (GA)	Mr. Deepanshu
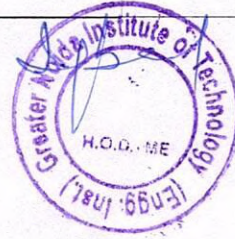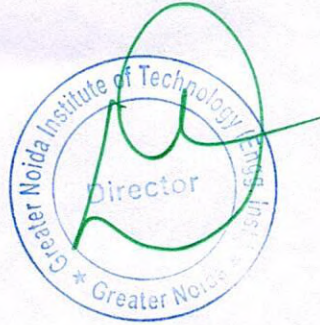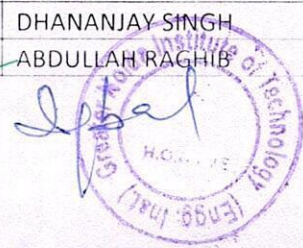
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List of students

S.No.	I.D. No.	UPTU Roll No	Student Name	BATCH
1	150928	1513240074	DIWAKAR KUMAR	2019-20
2	151145	1513240001	AASHISH KUMAR	2019-20
3	160026	1613240037	AVESH ALAM	2019-20
4	160053	1613240017	AMAN	2019-20
5	160070	1613240050	DUSHYANT CHAUHAN	2019-20
6	160101	1613240010	ABHISHEK KUMAR RAI	2019-20
7	160116	1613240025	ANUPAM RAWAT	2019-20
8	160119	1613240005	ABHISHEK ANAND	2019-20
9	160148	1613240026	ANURAG PANDEY	2019-20
10	160163	1613240001	AADIT KUMAR	2019-20
11	160202	1613240049	DIVYANSHU KUMAR	2019-20
12	160239	1613240015	AKSHAY SAHANI	2019-20
13	160253	1613240040	CHAITANYA KUMAR	2019-20
14	160270	1613240011	ABHISHU KUMAR	2019-20
15	160353	1613240016	AKSHAY YADAV	2019-20
16	160359	1613240002	AAQUIB NEYAZ KHAN	2019-20
17	160362	1613240033	ASHISH KUMAR SINGH	2019-20
18	160396	1613240039	BAIRISTER KUMAR SHARMA	2019-20
19	160403	1613240012	ABHYUDAY SHAANDILYA	2019-20
20	160426	1613240054	GAURAV TIWARI	2019-20
21	160435	1613240036	ATUL KUMAR	2019-20
22	160484	1613240045	DEVANSH ROHILLA	2019-20
23	160503	1613240052	FUZAIL AHMAD	2019-20
24	160532	1613240046	DEVESHWAR SINGH	2019-20
25	160570	1613240023	ANKIT KUMAR PRABHAKAR	2019-20
26	160598	1613240029	ARMAN UL HAQ	2019-20
27	160611	1613240007	ABHISHEK KUMAR SINGH	2019-20
28	160617	1613240020	AMRESHWAR PRATAP SINGH	2019-20
29	160629	1613240044	DEV PRAKASH	2019-20
30	160637	1613240013	ADARSH KUMAR YADAV	2019-20
31	160651	1613240019	AMIT PRAKASH MURMU	2019-20
32	160775	1613240055	GUDDU KUMAR PANDIT	2019-20
33	160790	1613240006	ABHISHEK BHARGAV	2019-20
34	160793	1613240024	ANKITA SHARMA	2019-20
35	160822	1613240034	ASHWINI RAJ	2019-20
36	160852	1613240022	ANKIT KUMAR	2019-20
37	160854	1613240027	APOORV CHITRANNSH KUDESHIYA	2019-20
38	160855	1613240028	ARJUN UPADHYAY	2019-20
39	160869	1613240038	AVISHEK	2019-20
40	160875	1613240021	ANIKET KUMAR	2019-20
41	160885	1613240042	CHETAN SHARMA	2019-20
42	160937	1613240018	AMAN BAJPAI	2019-20
43	160941	1613240041	CHANDAN SHARMA	2019-20
44	161002	1613240047	DHANANJAY SINGH	2019-20
45	161013	1613240003	ABDULLAH RAGHIB	2019-20

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46	170004	1713240906	KUSHAGRA SAXENA	2019-20
47	170468	1713240905	HRITIK BHARTI	2019-20
48	170694	1713240907	MD IRFAN	2019-20
49	170734	1713240902	ANTESH	2019-20
50	170789	1713240901	AFTAB ALAM	2019-20
51	170813	1713240913	UDAY SHANKAR	2019-20
52	150186	1513240107	MAHTAB ALAM	2019-20
53	150227	1513240106	LAXMI NARAYAN	2019-20
54	150536	1513240143	NARESH SINGH	2019-20
55	160022	1613240102	MOHD AMAN	2019-20
56	160061	1613240092	MD SHAHBAZ	2019-20
57	160066	1613240057	HIMANK CHAUHAN	2019-20
58	160068	1613240060	IMBESAT SIDDIQUI	2019-20
59	160074	1613240101	MOHAMMED SALAUDDIN	2019-20
60	160076	1613240116	PRATEEK SRIVASTAVA	2019-20
61	160137	1613240109	NIKHIL KUMAR DHAMA	2019-20
62	160174	1613240059	HIMANSHU SHARMA	2019-20
63	160180	1613240107	NANDAN KUMAR	2019-20
64	160186	1613240077	MD JAWED	2019-20
65	160189	1613240113	NITRANAND UPADHYAY	2019-20
66	160214	1613240078	MD WASIM	2019-20
67	160222	1613240062	ISHANK KUMAR SINGH	2019-20
68	160226	1613240091	MD SHAHBAJ ALI KHAN	2019-20
69	160237	1613240119	RAHUL KUMAR	2019-20
70	160333	1613240105	MOHIT KUMAR	2019-20
71	160339	1613240089	MD SANAULLAH	2019-20
72	160399	1613240086	MD KHALID HUSSAIN	2019-20
73	160419	1613240074	MANOJ BHATT	2019-20
74	160420	1613240104	MOHIT BHATT	2019-20
75	160448	1613240075	MAYANK SHARMA	2019-20
76	160464	1613240093	MD TABREZ ALAM	2019-20
77	160481	1613240111	NISHANT KUMAR SHARMA	2019-20
78	160522	1613240066	KARAN VISHWAKERMA	2019-20
79	160538	1613240118	RAHMAT AHSAN SIDDIQUE	2019-20
80	160568	1613240090	MD SHADAN ANSARI	2019-20
81	160582	1613240073	MANOJ	2019-20
82	160640	1613240115	PRASHANT DUBEY	2019-20
83	160663	1613240072	MANISHA GUPTA	2019-20
84	160722	1613240084	MD FARHAN RAZA	2019-20
85	160733	1613240082	MD AZEEM KHAN	2019-20
86	160741	1613240110	NIMESH KUMAR	2019-20
87	160743	1613240098	MITHUL SINGH	2019-20
88	160751	1613240068	KRISHANA MURARI	2019-20
89	160784	1613240056	GULSHAN SHARMA	2019-20
90	160833	1613240085	MD ISHTYAQ ALI ANSARI	2019-20
91	160839	1613240067	KIRTI KUMARI	2019-20
92	160840	1613240106	MS NIRMLA	2019-20
93	160858	1613240081	MD AZAD KHAN	2019-20
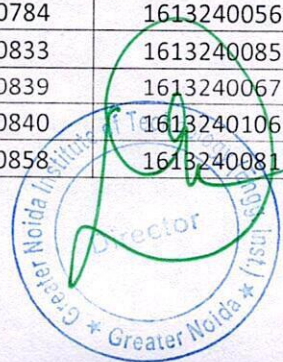
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94	160882	1613240088	MD RIZWAN AHMAD	2019-20
95	160948	1613240096	MEHBOOB REZA	2019-20
96	160959	1613240080	MD ASIF PERWEZ	2019-20
97	170008	1713240911	RISHABH VERMA	2019-20
98	170010	1713240914	UDIT SHARMA	2019-20
99	170365	1713240916	VIKAS YADAV	2019-20
100	170418	1713240915	UMAR JAN BHAT	2019-20
101	170575	1713240917	VARNIT AGARWAL	2019-20

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Q. 1 – Q. 5 carry one mark each.

Q.1 John Thomas, an _____ writer, passed away in 2018.

(A) imminent   (B) prominent
(C) eminent   (D) dominant

Q.2 _____ I permitted him to leave, I wouldn't have had any problem with him being absent.
_____ I?

(A) Had, wouldn't   (B) Have, would
(C) Had, would   (D) Have, wouldn't

Q.3 A worker noticed that the hour hand on the factory clock had moved by 225 degrees during her stay at the factory. For how long did she stay in the factory?

(A) 3.75 hours   (B) 4 hours and 15 mins
(C) 8.5 hours   (D) 7.5 hours

Q.4 The sum and product of two integers are 26 and 165 respectively. The difference between these two integers is _____.

(A) 2   (B) 3   (C) 4   (D) 6

Q.5 The minister avoided any mention of the issue of women's reservation in the private sector. He was accused of _____ the issue.

(A) collaring   (B) skirting
(C) tying   (D) belting

Q. 6 – Q. 10 carry two marks each.

Q.6 Under a certain legal system, prisoners are allowed to make one statement. If their statement turns out to be true then they are hanged. If the statement turns out to be false then they are shot. One prisoner made a statement and the judge had no option but to set him free. Which one of the following could be that statement?

(A) I did not commit the crime
(B) I committed the crime
(C) I will be shot
(D) You committed the crime
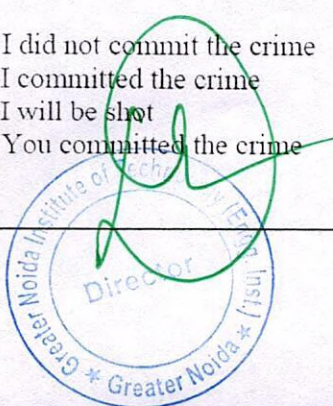
GA

13

Q.7 A person divided an amount of Rs. 100,000 into two parts and invested in two different schemes. In one he got 10% profit and in the other he got 12%. If the profit percentages are interchanged with these investments he would have got Rs.120 less. Find the ratio between his investments in the two schemes.

(A) 9 : 16   (B) 11 : 14   (C) 37 : 63   (D) 47 : 53

Q.8 Congo was named by Europeans. Congo's dictator Mobuto later changed the name of the country and the river to Zaire with the objective of Africanising names of persons and spaces. However, the name Zaire was a Portuguese alteration of *Nzadi o Nzere*, a local African term meaning 'River that swallows Rivers'. Zaire was the Portuguese name for the Congo river in the 16th and 17th centuries.
Which one of the following statements can be inferred from the paragraph above?

(A) Mobuto was not entirely successful in Africanising the name of his country
(B) The term *Nzadi o Nzere* was of Portuguese origin
(C) Mobuto's desire to Africanise names was prevented by the Portuguese
(D) As a dictator Mobuto ordered the Portuguese to alter the name of the river to Zaire

Q.9 A firm hires employees at five different skill levels P, Q, R, S, T. The shares of employment at these skill levels of total employment in 2010 is given in the pie chart as shown. There were a total of 600 employees in 2010 and the total employment increased by 15% from 2010 to 2016. The total employment at skill levels P, Q and R remained unchanged during this period. If the employment at skill level S increased by 40% from 2010 to 2016, how many employees were there at skill level T in 2016?

Percentage share of skills in 2010
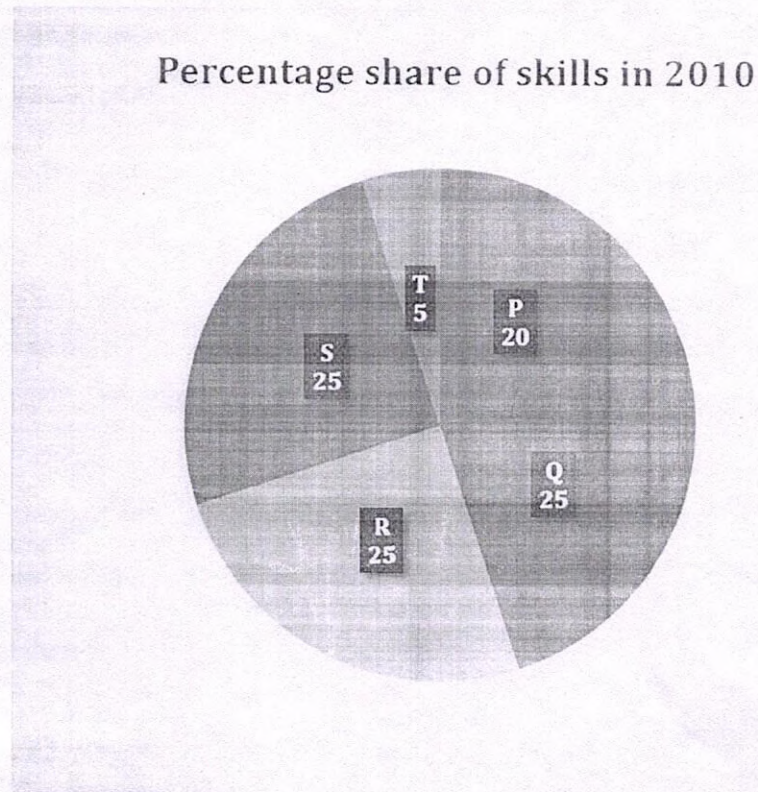
(A) 30   (B) 35   (C) 60   (D) 72

Q.10 M and N had four children P, Q, R and S. Of them, only P and R were married. They had children X and Y respectively. If Y is a legitimate child of W, which one of the following statements is necessarily FALSE?

(A) M is the grandmother of Y
(B) R is the father of Y
(C) W is the wife of R
(D) W is the wife of P

END OF THE QUESTION PAPER
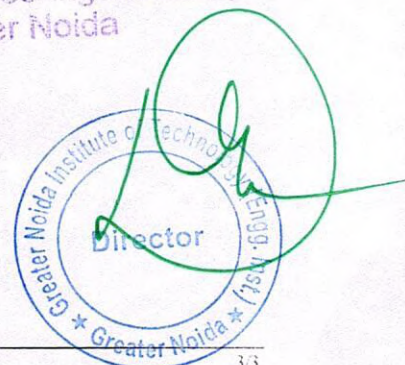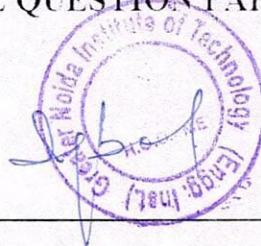
Q. 1 – Q. 25 carry one mark each.

Q.1   Consider the matrix

$$P = \begin{bmatrix} 1 & 1 & 0 \\ 0 & 1 & 1 \\ 0 & 0 & 1 \end{bmatrix}$$

The number of distinct eigenvalues of P is

(A) 0   (B) 1   (C) 2   (D) 3

Q.2   A parabola $x = y^2$ with $0 \le x \le 1$ is shown in the figure. The volume of the solid of rotation obtained by rotating the shaded area by 360° around the x-axis is

(A) $\dfrac{\pi}{4}$

(B) $\dfrac{\pi}{2}$

(C) π

(D) 2π
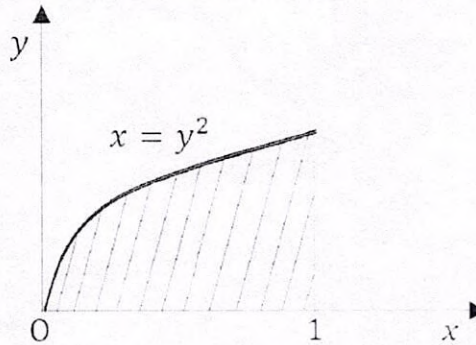
Q.3   For the equation $\dfrac{dy}{dx} + 7x^2 y = 0$, if $y(0) = 3/7$, then the value of $y(1)$ is

(A) $\dfrac{7}{3} e^{-7/3}$

(B) $\dfrac{7}{3} e^{-3/7}$

(C) $\dfrac{3}{7} e^{-7/3}$

(D) $\dfrac{3}{7} e^{-3/7}$

Q.4   The lengths of a large stock of titanium rods follow a normal distribution with a mean (μ) of 440 mm and a standard deviation (σ) of 1 mm. What is the percentage of rods whose lengths lie between 438 mm and 441 mm?

(A) 81.85%   (B) 68.4%   (C) 99.75%   (D) 86.6%
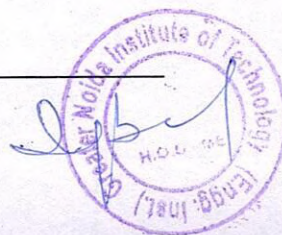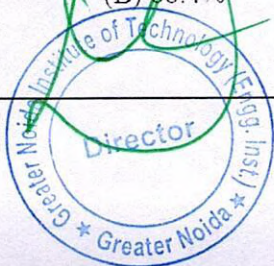
ME   1/19

Q.5   A flat-faced follower is driven using a circular eccentric cam rotating at a constant angular velocity ω. At time $t = 0$, the vertical position of the follower is $y(0) = 0$, and the system is in the configuration shown below.
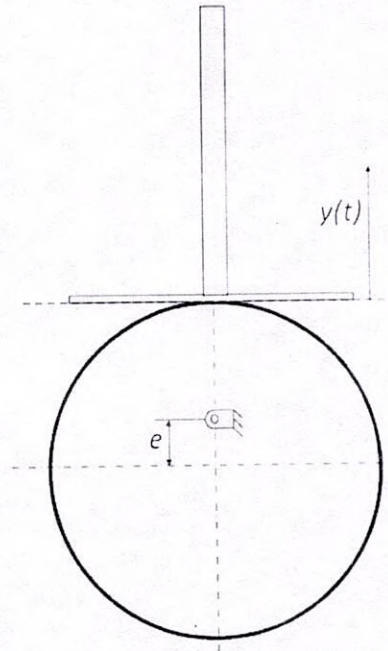
The vertical position of the follower face, $y(t)$ is given by

(A) $e \sin \omega t$ (B) $e(1 + \cos 2\omega t)$ (C) $e(1 - \cos \omega t)$ (D) $e \sin 2\omega t$

Q.6   The natural frequencies corresponding to the spring-mass systems I and II are ω_I and ω_{II}, respectively. The ratio $\frac{\omega_I}{\omega_{II}}$ is
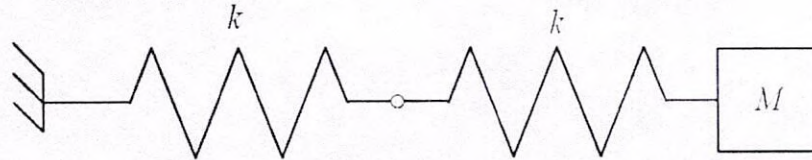
SYSTEM I
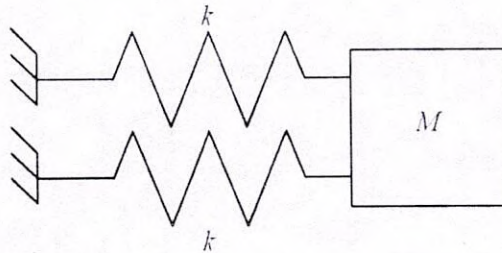
SYSTEM II

(A) $\frac{1}{4}$ (B) $\frac{1}{2}$ (C) 2   (D) 4

Q.7   A spur gear with 20° full depth teeth is transmitting 20 kW at 200 rad/s. The pitch circle diameter of the gear is 100 mm. The magnitude of the force applied on the gear in the radial direction is

(A) 0.36 kN   (B) 0.73 kN   (C) 1.39 kN   (D) 2.78 kN

Q.8   During a non-flow thermodynamic process (1-2) executed by a perfect gas, the heat interaction is equal to the work interaction ($Q_{1-2} = W_{1-2}$) when the process is

(A) Isentropic   (B) Polytropic

(C) Isothermal   (D) Adiabatic

Q.9   For a hydrodynamically and thermally fully developed laminar flow through a circular pipe of constant cross-section, the Nusselt number at constant wall heat flux (Nu_q) and that at constant wall temperature (Nu_T) are related as

(A) $Nu_q > Nu_T$ (B) $Nu_q < Nu_T$

(C) $Nu_q = Nu_T$ (D) $Nu_q = (Nu_T)^2$

Q.10   As per common design practice, the three types of hydraulic turbines, in descending order of flow rate, are

(A) Kaplan, Francis, Pelton

(B) Pelton, Francis, Kaplan

(C) Francis, Kaplan, Pelton

(D) Pelton, Kaplan, Francis

Q.11   A slender rod of length L, diameter d ($L \gg d$) and thermal conductivity k_1 is joined with another rod of identical dimensions, but of thermal conductivity k_2, to form a composite cylindrical rod of length $2L$. The heat transfer in radial direction and contact resistance are negligible. The effective thermal conductivity of the composite rod is

(A) $k_1 + k_2$ (B) $\sqrt{k_1 k_2}$

(C) $\dfrac{k_1 k_2}{k_1 + k_2}$ (D) $\dfrac{2 k_1 k_2}{k_1 + k_2}$
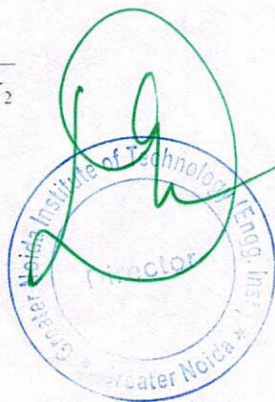
Q.12   Consider an ideal vapor compression refrigeration cycle. If the throttling process is replaced by an isentropic expansion process, keeping all the other processes unchanged, which one of the following statements is true for the modified cycle?

(A) Coefficient of performance is higher than that of the original cycle.

(B) Coefficient of performance is lower than that of the original cycle.

(C) Coefficient of performance is the same as that of the original cycle.

(D) Refrigerating effect is lower than that of the original cycle.

Q.13   In a casting process, a vertical channel through which molten metal flows downward from pouring basin to runner for reaching the mold cavity is called

(A) blister   (B) sprue   (C) riser   (D) pin hole

Q.14   Which one of the following welding methods provides the highest heat flux (W/mm²)?

(A) Oxy-acetylene gas welding   (B) Tungsten inert gas welding

(C) Plasma arc welding   (D) Laser beam welding

Q.15   The length, width and thickness of a steel sample are 400 mm, 40 mm and 20 mm, respectively. Its thickness needs to be uniformly reduced by 2 mm in a single pass by using horizontal slab milling. The milling cutter (diameter: 100 mm, width: 50 mm) has 20 teeth and rotates at 1200 rpm. The feed per tooth is 0.05 mm. The feed direction is along the length of the sample. If the over-travel distance is the same as the approach distance, the approach distance and time taken to complete the required machining task are

(A) 14 mm, 18.4 s   (B) 21 mm, 28.9 s

(C) 21 mm, 39.4 s   (D) 14 mm, 21.4 s
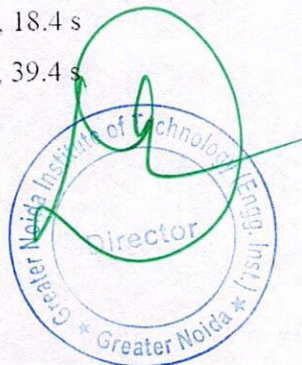
Q.16

The position vector $\overrightarrow{OP}$ of point P (20, 10) is rotated anti-clockwise in X-Y plane by an angle $\theta = 30°$ such that point P occupies position Q, as shown in the figure. The coordinates (x, y) of Q are
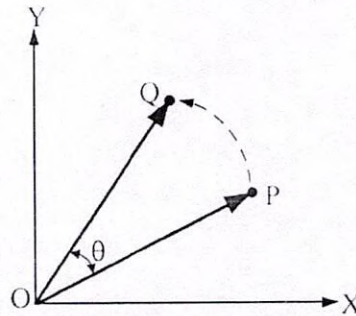
(A) (13.40, 22.32)   (B) (22.32, 8.26)   (C) (12.32, 18.66)   (D) (18.66, 12.32)

Q.17 The table presents the demand of a product. By simple three-months moving average method, the demand-forecast of the product for the month of September is

Month	Demand
January	450
February	440
March	460
April	510
May	520
June	495
July	475
August	560

(A) 490   (B) 510   (C) 530   (D) 536.67

Q.18 Evaluation of $\int_{2}^{4} x^3 \, dx$ using a 2-equal-segment trapezoidal rule gives a value of _____

Q.19 A block of mass 10 kg rests on a horizontal floor. The acceleration due to gravity is 9.81 m/s². The coefficient of static friction between the floor and the block is 0.2. A horizontal force of 10 N is applied on the block as shown in the figure. The magnitude of force of friction (in N) on the block is____
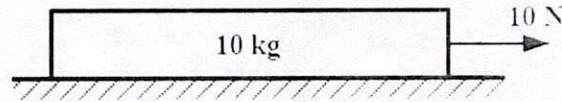
Q.20 A cylindrical rod of diameter 10 mm and length 1.0 m is fixed at one end. The other end is twisted by an angle of 10° by applying a torque. If the maximum shear strain in the rod is $p \times 10^{-3}$, then p is equal to _____ (round off to two decimal places).

Q.21 A solid cube of side 1 m is kept at a room temperature of 32 °C. The coefficient of linear thermal expansion of the cube material is 1×10^{-5} /°C and the bulk modulus is 200 GPa. If the cube is constrained all around and heated uniformly to 42 °C, then the magnitude of volumetric (mean) stress (in MPa) induced due to heating is____

Q.22 During a high cycle fatigue test, a metallic specimen is subjected to cyclic loading with a mean stress of +140 MPa, and a minimum stress of −70 MPa. The R-ratio (minimum stress to maximum stress) for this cyclic loading is_____ (round off to one decimal place)

Q.23 Water flows through a pipe with a velocity given by $\vec{V} = \left(\frac{4}{t} + x + y\right)\hat{j}$ m/s, where $\hat{j}$ is the unit vector in the y direction, t (> 0) is in seconds, and x and y are in meters. The magnitude of total acceleration at the point $(x, y) = (1, 1)$ at $t = 2$ s is _____ m/s².

Q.24 Air of mass 1 kg, initially at 300 K and 10 bar, is allowed to expand isothermally till it reaches a pressure of 1 bar. Assuming air as an ideal gas with gas constant of 0.287 kJ/kg.K, the change in entropy of air (in kJ/kg.K, round off to two decimal places) is____

ME   7/10

Q.25 Consider the stress-strain curve for an ideal elastic-plastic strain hardening metal as shown
in the figure. The metal was loaded in uniaxial tension starting from O. Upon loading. the
stress-strain curve passes through initial yield point at P, and then strain hardens to point Q.
where the loading was stopped. From point Q, the specimen was unloaded to point R. where
the stress is zero. If the same specimen is reloaded in tension from point R. the value of stress
at which the material yields again is _____ MPa.
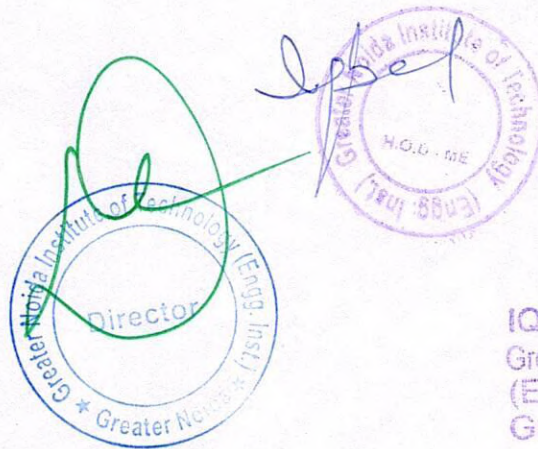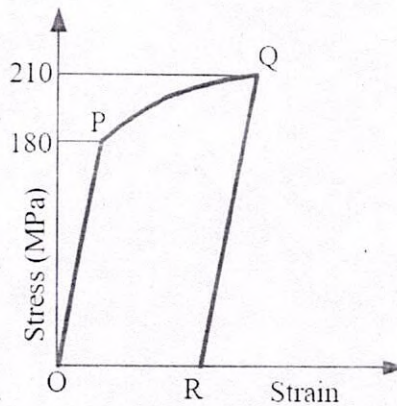
Q. 26 – Q. 55 carry two marks each.

Q.26 The set of equations

$$x + y + z = 1$$
$$ax - ay + 3z = 5$$
$$5x - 3y + az = 6$$

has infinite solutions, if $a =$

(A) -3 (B) 3   (C) 4   (D) -4

Q.27 A harmonic function is analytic if it satisfies the Laplace equation.
If $u(x, y) = 2x^2 - 2y^2 + 4xy$ is a harmonic function, then its conjugate harmonic
function $v(x, y)$ is

(A) $4xy - 2x^2 + 2y^2 + \text{constant}$

(B) $4y^2 - 4xy + \text{constant}$

(C) $2x^2 - 2y^2 + xy + \text{constant}$

(D) $-4xy + 2y^2 - 2x^2 + \text{constant}$

Q.28 The variable x takes a value between 0 and 10 with uniform probability distribution. The
variable y takes a value between 0 and 20 with uniform probability distribution. The
probability of the sum of variables $(x + y)$ being greater than 20 is

(A) 0   (B) 0.25   (C) 0.33   (D) 0.50
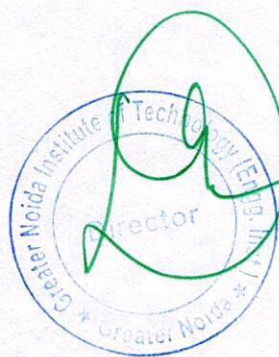
Q.29 A car having weight W is moving in the direction as shown in the figure. The center of gravity (CG) of the car is located at height h from the ground, midway between the front and rear wheels. The distance between the front and rear wheels is l. The acceleration of the car is a, and acceleration due to gravity is g. The reactions on the front wheels (R_f) and rear wheels (R_r) are given by
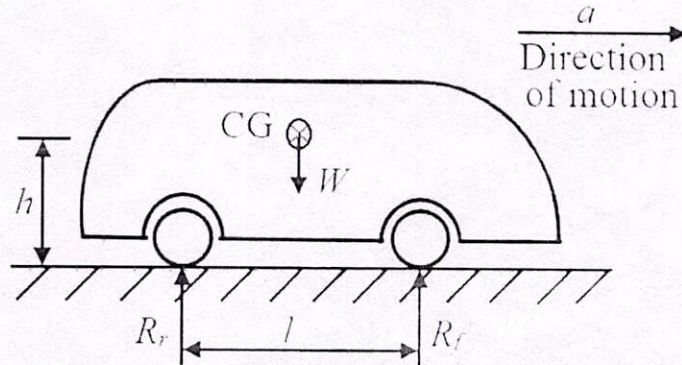
(A) $R_f = R_r = \dfrac{W}{2} - \dfrac{W}{g}\left(\dfrac{h}{l}\right)a$

(B) $R_f = \dfrac{W}{2} + \dfrac{W}{g}\left(\dfrac{h}{l}\right)a$; $R_r = \dfrac{W}{2} - \dfrac{W}{g}\left(\dfrac{h}{l}\right)a$

(C) $R_f = \dfrac{W}{2} - \dfrac{W}{g}\left(\dfrac{h}{l}\right)a$; $R_r = \dfrac{W}{2} + \dfrac{W}{g}\left(\dfrac{h}{l}\right)a$

(D) $R_f = R_r = \dfrac{W}{2} + \dfrac{W}{g}\left(\dfrac{h}{l}\right)a$

Q.30 In a four bar planar mechanism shown in the figure, AB = 5 cm, AD = 4 cm and DC = 2 cm. In the configuration shown, both AB and DC are perpendicular to AD. The bar AB rotates with an angular velocity of 10 rad/s. The magnitude of angular velocity (in rad/s) of bar DC at this instant is
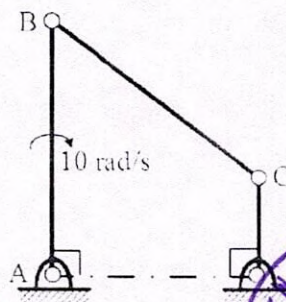
(A) 0   (B) 10   (C) 15   (D)

Q.31 The rotor of a turbojet engine of an aircraft has a mass 180 kg and polar moment of inertia 10 kg·m^2 about the rotor axis. The rotor rotates at a constant speed of 1100 rad/s in the clockwise direction when viewed from the front of the aircraft. The aircraft while flying at a speed of 800 km per hour takes a turn with a radius of 1.5 km to the left. The gyroscopic moment exerted by the rotor on the aircraft structure and the direction of motion of the nose when the aircraft turns, are

(A) 1629.6 N·m and the nose goes up

(B) 1629.6 N·m and the nose goes down

(C) 162.9 N·m and the nose goes up

(D) 162.9 N·m and the nose goes down

Q.32 The wall of a constant diameter pipe of length 1 m is heated uniformly with flux q'' by wrapping a heater coil around it. The flow at the inlet to the pipe is hydrodynamically fully developed. The fluid is incompressible and the flow is assumed to be laminar and steady all through the pipe. The bulk temperature of the fluid is equal to 0 °C at the inlet and 50 °C at the exit. The wall temperatures are measured at three locations, P, Q and R, as shown in the figure. The flow thermally develops after some distance from the inlet. The following measurements are made:

Point	P	Q	R
Wall Temp (°C)	50	80	90

Constant wall flux
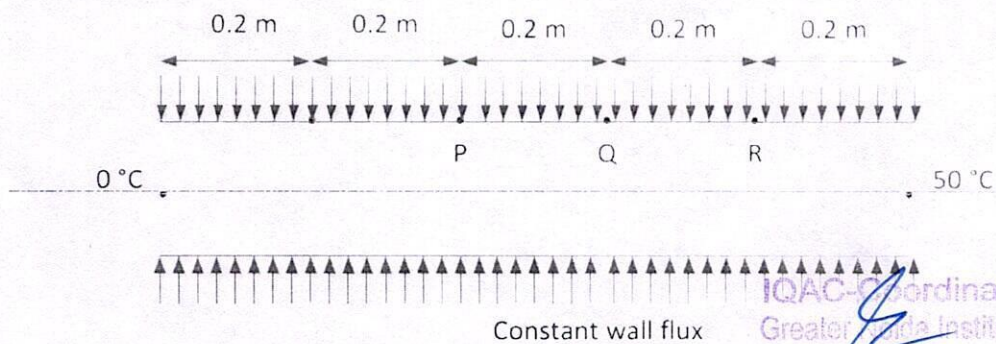
Among the locations P, Q and R, the flow is thermally developed at

(A) P, Q and R   (B) P and Q only

(C) Q and R only   (D) R only

Q.33 A gas is heated in a duct as it flows over a resistance heater. Consider a 101 kW electric heating system. The gas enters the heating section of the duct at 100 kPa and 27 °C with a volume flow rate of 15 m³/s. If heat is lost from the gas in the duct to the surroundings at a rate of 51 kW, the exit temperature of the gas is

(Assume constant pressure, ideal gas, negligible change in kinetic and potential energies and constant specific heat; C_p = 1 kJ/kg·K; R = 0.5 kJ/kg·K.)

(A) 32 °C   (B) 37 °C   (C) 53 °C   (D) 76 °C

Q.34 A plane-strain compression (forging) of a block is shown in the figure. The strain in the z-direction is zero. The yield strength (S_y) in uniaxial tension/compression of the material of the block is 300 MPa and it follows the Tresca (maximum shear stress) criterion. Assume that the entire block has started yielding. At a point where $\sigma_x = 40$ MPa (compressive) and $\tau_{xy} = 0$, the stress component σ_y is
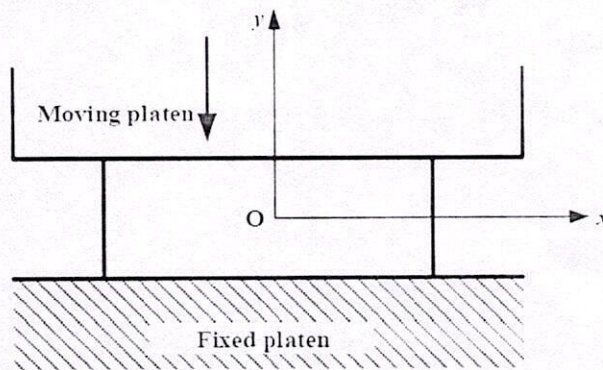
(A) 340 MPa (compressive)   (B) 340 MPa (tensile)

(C) 260 MPa (compressive)   (D) 260 MPa (tensile)

Q.35 In orthogonal turning of a cylindrical tube of wall thickness 5 mm, the axial and the tangential cutting forces were measured as 1259 N and 1601 N, respectively. The measured chip thickness after machining was found to be 0.3 mm. The rake angle was 10° and the axial feed was 100 mm/min. The rotational speed of the spindle was 1000 rpm. Assuming the material to be perfectly plastic and Merchant's first solution, the shear strength of the material is closest to

(A) 722 MPa   (B) 920 MPa   (C) 200 MPa   (D) 875 MPa
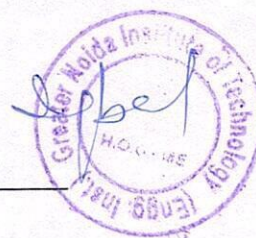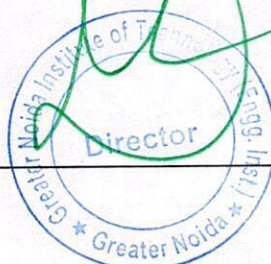
Q.36 A circular shaft having diameter $65.00^{+0.01}_{-0.05}$ mm is manufactured by turning process. A 50 μm thick coating of TiN is deposited on the shaft. Allowed variation in TiN film thickness is ± 5 μm. The minimum hole diameter (in mm) to just provide clearance fit is

(A) 65.01   (B) 65.12   (C) 64.95   (D) 65.10

Q.37 Match the following sand mold casting defects with their respective causes.

	Defect		Cause
P	Blow hole	1	Poor collapsibility
Q	Misrun	2	Mold erosion
R	Hot tearing	3	Poor permeability
S	Wash	4	Insufficient fluidity

(A) P-4, Q-3, R-1, S-2   (B) P-3, Q-4, R-2, S-1

(C) P-2, Q-4, R-1, S-3   (D) P-3, Q-4, R-1, S-2

Q.38 A truss is composed of members AB, BC, CD, AD and BD, as shown in the figure. A vertical load of 10 kN is applied at point D. The magnitude of force (in kN) in the member BC is _____
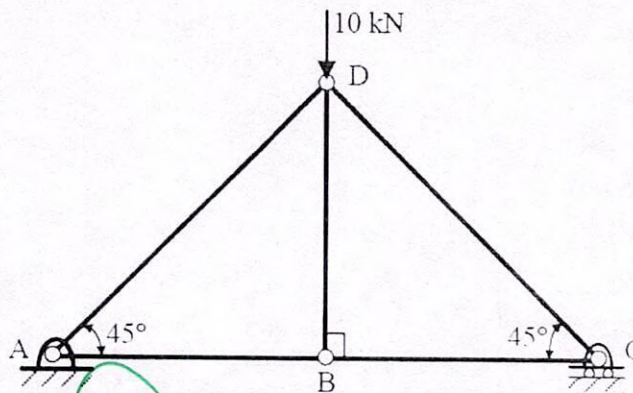
Q. 1 – Q. 5 carry one mark each.

Q.1   I am not sure if the bus that has been booked will be able to _____ all the students.

(A) sit   (B) deteriorate   (C) fill   (D) accommodate

Q.2   The passengers were angry _____ the airline staff about the delay.

(A) on   (B) about   (C) with   (D) towards

Q.3   The missing number in the given sequence 343, 1331, _____, 4913 is

(A) 3375   (B) 2744   (C) 2197   (D) 4096

Q.4   It takes two hours for a person X to mow the lawn. Y can mow the same lawn in four hours. How long (in minutes) will it take X and Y, if they work together to mow the lawn?

(A) 60   (B) 80   (C) 90   (D) 120

Q.5   Newspapers are a constant source of delight and recreation for me. The ____ trouble is that I read ____ many of them.

(A) even, quite   (B) even, too
(C) only, quite   (D) only, too

Q. 6 – Q. 10 carry two marks each.

Q.6   How many integers are there between 100 and 1000 all of whose digits are even?

(A) 60   (B) 80   (C) 100   (D) 90

Q.7   The ratio of the number of boys and girls who participated in an examination is 4:3. The total percentage of candidates who passed the examination is 80 and the percentage of girls who passed is 90. The percentage of boys who passed is _____.

(A) 55.50   (B) 72.50   (C) 80.50   (D) 90.00
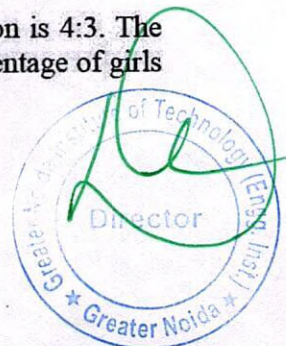
Q.8 An award-winning study by a group of researchers suggests that men are as prone to buying on impulse as women but women feel more guilty about shopping.

Which one of the following statements can be inferred from the given text?

(A) Some men and women indulge in buying on impulse
(B) All men and women indulge in buying on impulse
(C) Few men and women indulge in buying on impulse
(D) Many men and women indulge in buying on impulse

Q.9 Given two sets $X = \{1, 2, 3\}$ and $Y = \{2, 3, 4\}$, we construct a set Z of all possible fractions where the numerators belong to set X and the denominators belong to set Y. The product of elements having minimum and maximum values in the set Z is _____.

(A) 1/12 (B) 1/8 (C) 1/6 (D) 3/8

Q.10 Consider five people – Mita, Ganga, Rekha, Lakshmi and Sana. Ganga is taller than both Rekha and Lakshmi. Lakshmi is taller than Sana. Mita is taller than Ganga.
Which of the following conclusions are true?

1. Lakshmi is taller than Rekha
2. Rekha is shorter than Mita
3. Rekha is taller than Sana
4. Sana is shorter than Ganga

(A) 1 and 3
(B) 3 only
(C) 2 and 4
(D) 1 only

END OF THE QUESTION PAPER
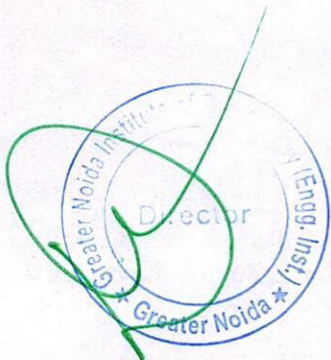
Q.9 A six-pulse thyristor bridge rectifier is connected to a balanced three-phase, 50 Hz AC source. Assuming that the DC output current of the rectifier is constant, the lowest harmonic component in the AC input current is

(A) 100 Hz   (B) 150 Hz   (C) 250 Hz   (D) 300 Hz

Q.10 The parameter of an equivalent circuit of a three-phase induction motor affected by reducing the rms value of the supply voltage at the rated frequency is

(A) rotor resistance
(B) rotor leakage reactance
(C) magnetizing reactance
(D) stator resistance

Q.11 A three-phase synchronous motor draws 200 A from the line at unity power factor at rated load. Considering the same line voltage and load, the line current at a power factor of 0.5 leading is

(A) 100 A   (B) 200 A   (C) 300 A   (D) 400 A

Q.12 In the circuit shown below, the switch is closed at $t = 0$. The value of θ in degrees which will give the maximum value of DC offset of the current at the time of switching is

$$R = 3.77\ \Omega$$
$$L = 10\ mH$$
$$t = 0$$
$$v(t) = 150 \sin(377t + \theta)$$
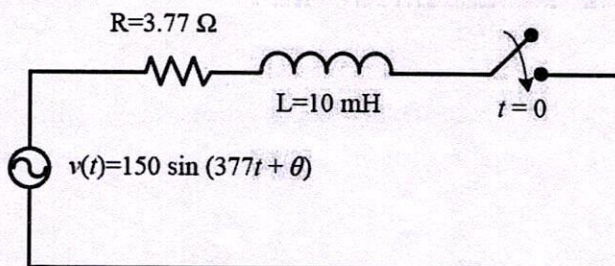
(A) 60   (B) −45   (C) 90   (D) −30

Q.13 The output response of a system is denoted as $y(t)$, and its Laplace transform is given by
$$Y(s) = \frac{10}{s(s^2 + s + 100\sqrt{2})}.$$
The steady state value of $y(t)$ is

(A) $\frac{1}{10\sqrt{2}}$ (B) $10\sqrt{2}$ (C) $\frac{1}{100\sqrt{2}}$ (D) $100\sqrt{2}$

Q.14 The open loop transfer function of a unity feedback system is given by
$$G(s) = \frac{\pi e^{-0.25s}}{s}.$$
In $G(s)$ plane, the Nyquist plot of $G(s)$ passes through the negative real axis at the point

(A) $(-0.5, j0)$ (B) $(-0.75, j0)$ (C) $(-1.25, j0)$ (D) $(-1.5, j0)$

Q.15 The characteristic equation of a linear time-invariant (LTI) system is given by
$$\Delta(s) = s^4 + 3s^3 + 3s^2 + s + k = 0.$$

The system is BIBO stable if

(A) $0 < k < \frac{12}{9}$ (B) $k > 3$

(C) $0 < k < \frac{8}{9}$ (D) $k > 6$
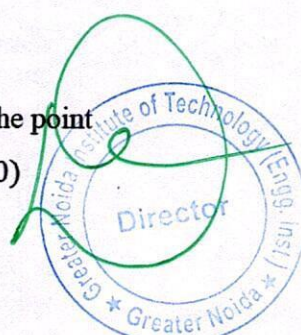
Q. 1 – Q. 25 carry ONE mark each.

Q.1 The inverse Laplace transform of $H(s) = \frac{s+3}{s^2+2s+1}$ for $t \geq 0$ is

(A) $3te^{-t} + e^{-t}$ (B) $3e^{-t}$

(C) $2te^{-t} + e^{-t}$ (D) $4te^{-t} + e^{-t}$

Q.2 M is a 2×2 matrix with eigenvalues 4 and 9. The eigenvalues of M^2 are

(A) 4 and 9   (B) 2 and 3   (C) -2 and -3   (D) 16 and 81

Q.3 The partial differential equation

$$\frac{\partial^2 u}{\partial t^2} - c^2 \left(\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} \right) = 0; \text{ where } c \neq 0$$

is known as

(A) heat equation   (B) wave equation

(C) Poisson's equation   (D) Laplace equation

Q.4 Which one of the following functions is analytic in the region $|z| \leq 1$?

(A) $\frac{z^2-1}{z}$ (B) $\frac{z^2-1}{z+2}$ (C) $\frac{z^2-1}{z-0.5}$ (D) $\frac{z^2-1}{z+j0.5}$

Q.5 The mean-square of a zero-mean random process is $\frac{kT}{C}$, where k is Boltzmann's constant, T is the absolute temperature, and C is a capacitance. The standard deviation of the random process is

(A) $\frac{kT}{C}$ (B) $\sqrt{\frac{kT}{C}}$ (C) $\frac{C}{kT}$ (D) $\frac{\sqrt{kT}}{C}$

Q.6 A system transfer function is $H(s) = \frac{a_1 s^2 + b_1 s + c_1}{a_2 s^2 + b_2 s + c_2}$. If $a_1 = b_1 = 0$, and all other coefficients are positive, the transfer function represents a

(A) low pass filter
(B) high pass filter
(C) band pass filter
(D) notch filter

Q.7 The symbols, a and T, represent positive quantities, and $u(t)$ is the unit step function. Which one of the following impulse responses is NOT the output of a causal linear time-invariant system?

(A) $e^{+at}u(t)$ (B) $e^{-a(t+T)}u(t)$

(C) $1 + e^{-at}u(t)$ (D) $e^{-a(t-T)}u(t)$

Q.8 A 5 kVA, 50 V/100 V, single-phase transformer has a secondary terminal voltage of 95 V when loaded. The regulation of the transformer is

(A) 4.5%   (B) 9%   (C) 5%   (D) 1%
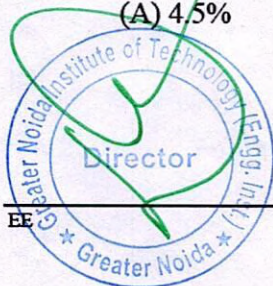
Q.21 The Y_{bus} matrix of a two-bus power system having two identical parallel lines connected between them in pu is given as

$$Y_{bus} = \begin{bmatrix} -j8 & j20 \\ j20 & -j8 \end{bmatrix}.$$

The magnitude of the series reactance of each line in pu (round off up to one decimal place) is _____ .

Q.22 Five alternators each rated 5 MVA, 13.2 kV with 25% of reactance on its own base are connected in parallel to a busbar. The short-circuit level in MVA at the busbar is _____ .

Q.23 The total impedance of the secondary winding, leads, and burden of a 5 A CT is 0.01 Ω. If the fault current is 20 times the rated primary current of the CT, the VA output of the CT is

_____ .

Q.24
The rank of the matrix, $M = \begin{bmatrix} 0 & 1 & 1 \\ 1 & 0 & 1 \\ 1 & 1 & 0 \end{bmatrix}$, is _____ .

Q.25 The output voltage of a single-phase full bridge voltage source inverter is controlled by unipolar PWM with one pulse per half cycle. For the fundamental rms component of output voltage to be 75% of DC voltage, the required pulse width in degrees (round off up to one decimal place) is _____ .
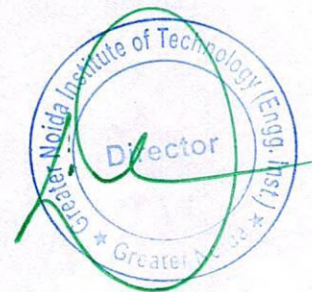
Q.16 Given, V_{gs} is the gate-source voltage, V_{ds} is the drain source voltage, and V_{th} is the threshold voltage of an enhancement type NMOS transistor, the conditions for transistor to be biased in saturation are

(A) $V_{gs} < V_{th}$; $V_{ds} \geq V_{gs} - V_{th}$
(B) $V_{gs} > V_{th}$; $V_{ds} \geq V_{gs} - V_{th}$
(C) $V_{gs} > V_{th}$; $V_{ds} \leq V_{gs} - V_{th}$
(D) $V_{gs} < V_{th}$; $V_{ds} \leq V_{gs} - V_{th}$

Q.17 A current controlled current source (CCCS) has an input impedance of 10 Ω and output impedance of 100 kΩ. When this CCCS is used in a negative feedback closed loop with a loop gain of 9, the closed loop output impedance is

(A) 10 Ω　　　　(B) 100 Ω　　　　(C) 100 kΩ　　　　(D) 1000 kΩ

Q.18 If $f = 2x^3 + 3y^2 + 4z$, the value of line integral $\int_C \text{grad} f \cdot d\mathbf{r}$ evaluated over contour C formed by the segments (-3, -3, 2)→(2, -3, 2) →(2, 6, 2) →(2, 6, -1) is_____.

Q.19 The current I flowing in the circuit shown below in amperes (round off to one decimal place) is _____.
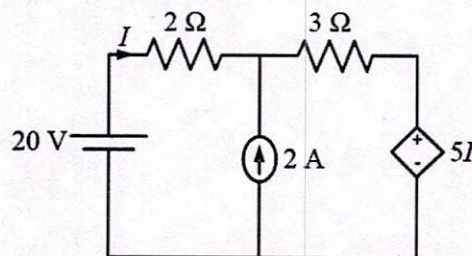
Q.20 A co-axial cylindrical capacitor shown in Figure (i) has dielectric with relative permittivity $\varepsilon_{r1} = 2$. When one-fourth portion of the dielectric is replaced with another dielectric of relative permittivity $\varepsilon_{r2,}$ as shown in Figure (ii), the capacitance is doubled. The value of ε_{r2} is _____.
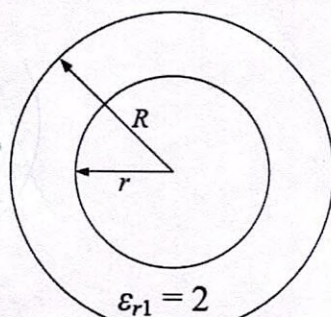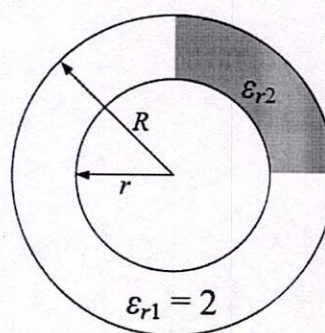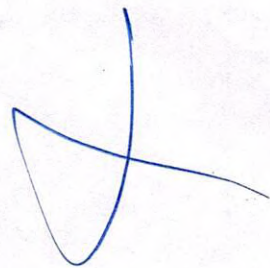
Figure (i)　　　　　　　　　　　　Figure (ii)

Q. 26 – Q. 55 carry TWO marks each.

Q.26 Consider a 2×2 matrix $M = [v_1 \quad v_2]$, where, v_1 and v_2 are the column vectors. Suppose $M^{-1} = \begin{bmatrix} u_1^T \\ u_2^T \end{bmatrix}$, where u_1^T and u_2^T are the row vectors. Consider the following statements:

Statement 1: $u_1^T v_1 = 1$ and $u_2^T v_2 = 1$
Statement 2: $u_1^T v_2 = 0$ and $u_2^T v_1 = 0$

Which of the following options is correct?

(A) Statement 1 is true and statement 2 is false
(B) Statement 2 is true and statement 1 is false
(C) Both the statements are true
(D) Both the statements are false

Q.27 The closed loop line integral

$$\oint_{|z|=5} \frac{z^3 + z^2 + 8}{z + 2} \, dz$$

evaluated counter-clockwise, is

(A) $+8j\pi$ \qquad (B) $-8j\pi$ \qquad (C) $-4j\pi$ \qquad (D) $+4j\pi$

Q.28 A periodic function $f(t)$, with a period of 2π, is represented as its Fourier series,
$$f(t) = a_0 + \sum_{n=1}^{\infty} a_n \cos nt + \sum_{n=1}^{\infty} b_n \sin nt.$$
If

$$f(t) = \begin{cases} A \sin t, & 0 \le t \le \pi \\ 0, & \pi < t < 2\pi \end{cases},$$

the Fourier series coefficients a_1 and b_1 of $f(t)$ are

(A) $a_1 = \frac{A}{\pi}$; $b_1 = 0$ \qquad\qquad (B) $a_1 = \frac{A}{2}$; $b_1 = 0$
(C) $a_1 = 0$; $b_1 = A/\pi$ \qquad\qquad (D) $a_1 = 0$; $b_1 = \frac{A}{2}$
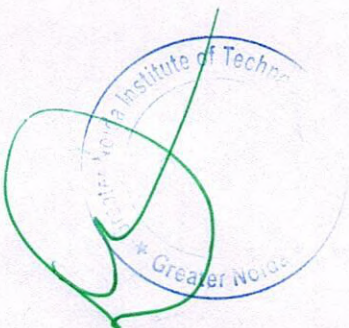
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Q.29 The asymptotic Bode magnitude plot of a minimum phase transfer function $G(s)$ is shown below.
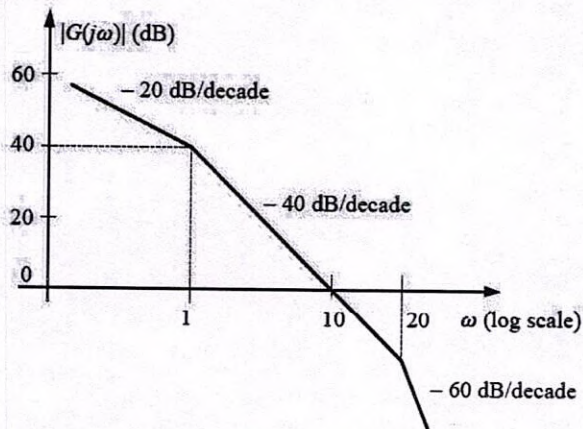
Consider the following two statements.

Statement I: Transfer function $G(s)$ has three poles and one zero.

Statement II: At very high frequency ($\omega \to \infty$), the phase angle $\angle G(j\omega) = -\frac{3\pi}{2}$.

Which one of the following options is correct?

(A) Statement I is true and statement II is false.
(B) Statement I is false and statement II is true.
(C) Both the statements are true.
(D) Both the statements are false.

Q.30 The transfer function of a phase lead compensator is given by

$$D(s) = \frac{3\left(s + \frac{1}{3T}\right)}{\left(s + \frac{1}{T}\right)}.$$

The frequency (in rad/sec), at which $\angle D(j\omega)$ is maximum, is

(A) $\sqrt{\frac{3}{T^2}}$
(B) $\sqrt{\frac{1}{3T^2}}$
(C) $\sqrt{3T}$
(D) $\sqrt{3T^2}$

Q.31 Consider a state-variable model of a system

$$\begin{bmatrix} \dot{x}_1 \\ \dot{x}_2 \end{bmatrix} = \begin{bmatrix} 0 & 1 \\ -\alpha & -2\beta \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} + \begin{bmatrix} 0 \\ \alpha \end{bmatrix} r$$

$$y = \begin{bmatrix} 1 & 0 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix}$$

where y is the output, and r is the input. The damping ratio ξ and the undamped natural frequency ω_n (rad/sec) of the system are given by

(A) $\xi = \frac{\beta}{\sqrt{\alpha}}; \quad \omega_n = \sqrt{\alpha}$
(B) $\xi = \sqrt{\alpha}; \quad \omega_n = \frac{\beta}{\sqrt{\alpha}}$
(C) $\xi = \frac{\sqrt{\alpha}}{\beta}; \quad \omega_n = \sqrt{\beta}$
(D) $\xi = \sqrt{\beta}; \quad \omega_n = \sqrt{\alpha}$

Q.32 A moving coil instrument having a resistance of 10 Ω, gives a full-scale deflection when the current is 10 mA. What should be the value of the series resistance, so that it can be used as a voltmeter for measuring potential difference up to 100 V?

(A) 9 Ω
(B) 99 Ω
(C) 990 Ω
(D) 9990 Ω

Q.33 The enhancement type MOSFET in the circuit below operates according to the square law. $\mu_n C_{ox} = 100\ \mu A/V^2$, the threshold voltage (V_T) is 500 mV. Ignore channel length modulation. The output voltage V_{out} is
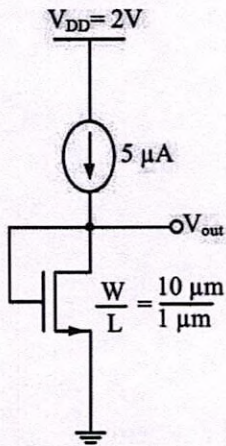
(A) 100 mV   (B) 500 mV   (C) 600 mV   (D) 2 V

Q.34 In the circuit below, the operational amplifier is ideal. If $V_1 = 10$ mV and $V_2 = 50$ mV, the output voltage (V_{out}) is
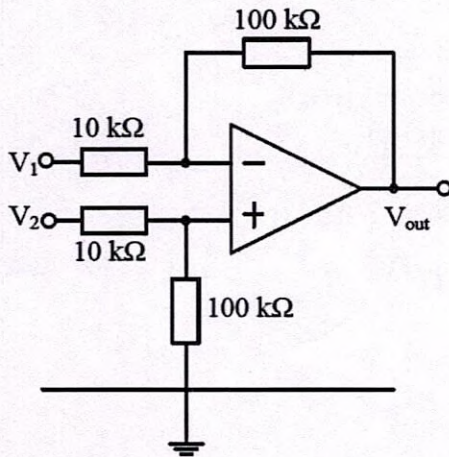
(A) 100 mV   (B) 400 mV   (C) 500 mV   (D) 600 mV

Q.35 The output expression for the Karnaugh map shown below is

PQ / RS	00	01	11	10
00	0	1	1	0
01	1	1	1	1
11	1	1	1	1
10	0	0	0	0

(A) $Q\bar{R} + S$

(B) $Q\bar{R} + \bar{S}$

(C) $QR + S$

(D) $QR + \bar{S}$

Q.36 In the circuit shown below, X and Y are digital inputs, and Z is a digital output. The equivalent circuit is a
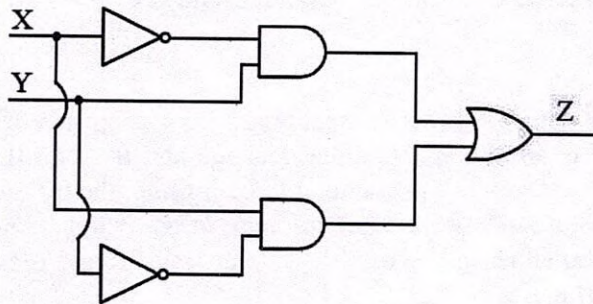
(A) NAND gate   (B) NOR gate   (C) XOR gate   (D) XNOR gate

Q.37 A DC-DC buck converter operates in continuous conduction mode. It has 48 V input voltage, and it feeds a resistive load of 24 Ω. The switching frequency of the converter is 250 Hz. If switch-on duration is 1 ms, the load power is

(A) 6 W   (B) 12 W   (C) 24 W   (D) 48 W

Q.38 The line currents of a three-phase four wire system are square waves with amplitude of 100 A. These three currents are phase shifted by 120° with respect to each other. The rms value of neutral current is

(A) 0 A   (B) $\frac{100}{\sqrt{3}}$ A   (C) 100 A   (D) 300 A

Q.39 If $\mathbf{A} = 2x\mathbf{i} + 3y\mathbf{j} + 4z\mathbf{k}$ and $u = x^2 + y^2 + z^2$, then $\mathrm{div}(u\mathbf{A})$ at (1, 1, 1) is_____.

Q.40 The probability of a resistor being defective is 0.02. There are 50 such resistors in a circuit. The probability of two or more defective resistors in the circuit (round off to two decimal places) is _____.

Q.41 A 0.1 µF capacitor charged to 100 V is discharged through a 1 kΩ resistor. The time in ms (round off to two decimal places) required for the voltage across the capacitor to drop to 1 V is _____.

Q.42 The current I flowing in the circuit shown below in amperes is _____.
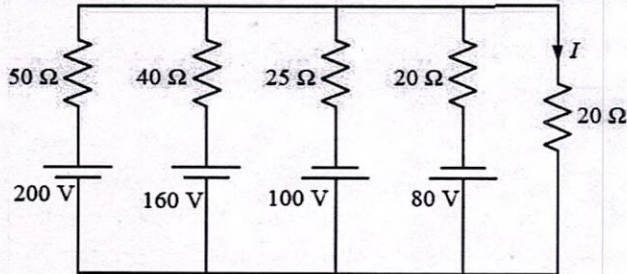
Q.43 The voltage across and the current through a load are expressed as follows
$$v(t) = -170 \sin\left(377t - \frac{\pi}{6}\right) \text{V}$$
$$i(t) = 8\cos\left(377t + \frac{\pi}{6}\right) \text{A}$$
The average power in watts (round off to one decimal place) consumed by the load is _____.

Q.44 The magnetic circuit shown below has uniform cross-sectional area and air gap of 0.2 cm. The mean path length of the core is 40 cm. Assume that leakage and fringing fluxes are negligible. When the core relative permeability is assumed to be infinite, the magnetic flux density computed in the air gap is 1 tesla. With same Ampere-turns, if the core relative permeability is assumed to be 1000 (linear), the flux density in tesla (round off to three decimal places) calculated in the air gap is _____.
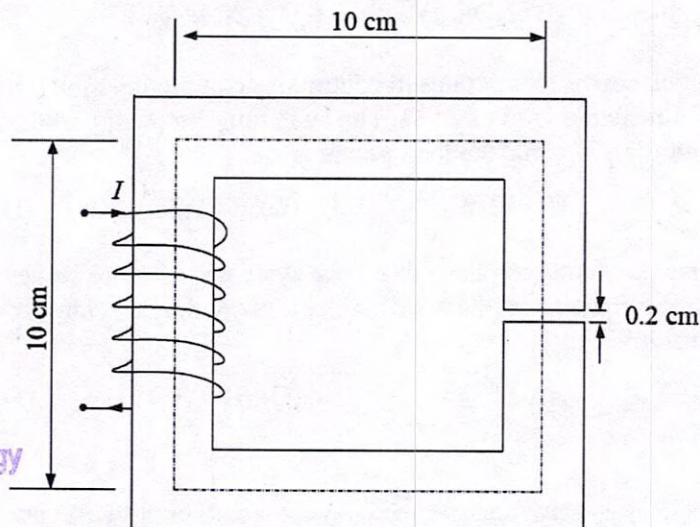
Q.45 A single-phase transformer of rating 25 kVA, supplies a 12 kW load at power factor of 0.6 lagging. The additional load at unity power factor in kW (round off to two decimal places) that may be added before this transformer exceeds its rated kVA is _____.
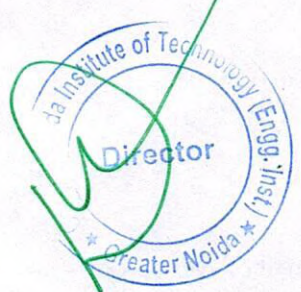
Q.46 A 220 V DC shunt motor takes 3 A at no-load. It draws 25 A when running at full-load at 1500 rpm. The armature and shunt resistances are 0.5 Ω and 220 Ω, respectively. The no-load speed in rpm (round off to two decimal places) is _____ .

Q.47 A delta-connected, 3.7 kW, 400 V(line), three-phase, 4-pole, 50-Hz squirrel-cage induction motor has the following equivalent circuit parameters per phase referred to the stator: $R_1 = 5.39\ \Omega$, $R_2 = 5.72\ \Omega$, $X_1 = X_2 = 8.22\ \Omega$. Neglect shunt branch in the equivalent circuit. The starting line current in amperes (round off to two decimal places) when it is connected to a 100 V (line), 10 Hz, three-phase AC source is _____ .

Q.48 A 220 V (line), three-phase, Y-connected, synchronous motor has a synchronous impedance of $(0.25 + j2.5)\ \Omega$/phase. The motor draws the rated current of 10 A at 0.8 pf leading. The rms value of line-to-line internal voltage in volts (round off to two decimal places) is

_____ .

Q.49 A three-phase 50 Hz, 400 kV transmission line is 300 km long. The line inductance is 1 mH/km per phase, and the capacitance is 0.01 µF/km per phase. The line is under open circuit condition at the receiving end and energized with 400 kV at the sending end, the receiving end line voltage in kV (round off to two decimal places) will be _____ .

Q.50 A 30 kV, 50 Hz, 50 MVA generator has the positive, negative, and zero sequence reactances of 0.25 pu, 0.15 pu, and 0.05 pu, respectively. The neutral of the generator is grounded with a reactance so that the fault current for a bolted LG fault and that of a bolted three-phase fault at the generator terminal are equal. The value of grounding reactance in ohms (round off to one decimal place) is _____ .

Q.51 In the single machine infinite bus system shown below, the generator is delivering the real power of 0.8 pu at 0.8 power factor lagging to the infinite bus. The power angle of the generator in degrees (round off to one decimal place) is _____ .

X_f=0.2 pu X_{L1}=0.4 pu $V = 1\angle 0°$

$X_{d'}$=0.25 pu X_{L2}=0.4 pu
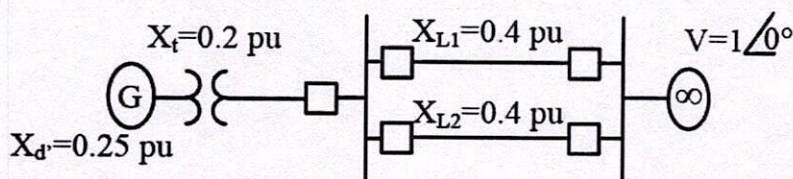
Q.52 In a 132 kV system, the series inductance up to the point of circuit breaker location is 50 mH. The shunt capacitance at the circuit breaker terminal is 0.05 µF. The critical value of resistance in ohms required to be connected across the circuit breaker contacts which will give no transient oscillation is _____ .

Q.53 In a DC-DC boost converter, the duty ratio is controlled to regulate the output voltage at 48 V. The input DC voltage is 24 V. The output power is 120 W. The switching frequency is 50 kHz. Assume ideal components and a very large output filter capacitor. The converter operates at the boundary between continuous and discontinuous conduction modes. The value of the boost inductor (in μH) is _____.

Q.54 A fully-controlled three-phase bridge converter is working from a 415 V, 50 Hz AC supply. It is supplying constant current of 100 A at 400 V to a DC load. Assume large inductive smoothing and neglect overlap. The rms value of the AC line current in amperes (round off to two decimal places) is _____.

Q.55 A single-phase fully-controlled thyristor converter is used to obtain an average voltage of 180 V with 10 A constant current to feed a DC load. It is fed from single-phase AC supply of 230 V, 50 Hz. Neglect the source impedance. The power factor (round off to two decimal places) of AC mains is _____.
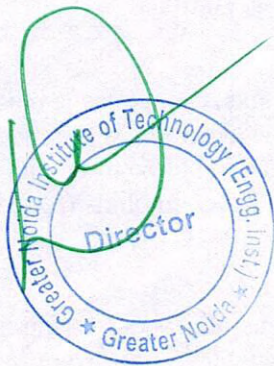
Q.No.	Type	Section	Key	Marks
1	MCQ	GA	D	1
2	MCQ	GA	C	1
3	MCQ	GA	C	1
4	MCQ	GA	B	1
5	MCQ	GA	D	1
6	MCQ	GA	C	2
7	MCQ	GA	B	2
8	MCQ	GA	A	2
9	MCQ	GA	D	2
10	MCQ	GA	C	2
1	MCQ	EE	C	1
2	MCQ	EE	D	1
3	MCQ	EE	B	1
4	MCQ	EE	B	1
5	MCQ	EE	B	1
6	MCQ	EE	A	1
7	MCQ	EE	C	1
8	MCQ	EE	C	1
9	MCQ	EE	C	1
10	MCQ	EE	C	1
11	MCQ	EE	D	1
12	MCQ	EE	B	1
13	MCQ	EE	A	1

Q.No.	Type	Section	Key	Marks
14	MCQ	EE	A	1
15	MCQ	EE	C	1
16	MCQ	EE	B	1
17	MCQ	EE	D	1
18	NAT	EE	139 to 139	1
19	NAT	EE	1.3 to 1.5	1
20	NAT	EE	9 to 11	1
21	NAT	EE	0.095 to 0.105	1
22	NAT	EE	100 to 100	1
23	NAT	EE	100 to 100	1
24	NAT	EE	3 to 3	1
25	NAT	EE	111.0 to 115.0	1
26	MCQ	EE	C	2
27	MCQ	EE	A	2
28	MCQ	EE	D	2
29	MCQ	EE	B	2
30	MCQ	EE	B	2
31	MCQ	EE	A	2
32	MCQ	EE	D	2
33	MCQ	EE	C	2
34	MCQ	EE	B	2
35	MCQ	EE	A	2
36	MCQ	EE	C	2

GENERAL APTITUDE
Q. No. 1 - 5 Carry One Mark Each

1. Five different books (P, Q, R, S, T) are to be arranged on a shelf. The books R and S are to be arranged first and second, respectively from the right side of the shelf. The number of different order in which P, Q and T may be arranged is _____.

    (A) 2   (B) 120   (C) 6   (C) 12

    Answer: (C)   **Click here to watch video explanation**

2. The boat arrived _____ dawn.

    (A) on   (B) at   (C) under   (D) in

    Answer: (B)

3. It would take one machine 4 hours to complete a production order and another machine 2 hours to complete the same order. If both machines work simultaneously at their respective constant rates, the time taken to complete the same order is _____ hours.

   (A) 2/3   (B) 7/3   (C) 4/3   (D) 3/4

    Answer: (C)   **Click here to watch video explanation**

4. When he did not come home, she _____ him lying dead on the roadside somewhere

    (A) concluded   (B) pictured   (C) notice   (D) looked

    Answer: (B)
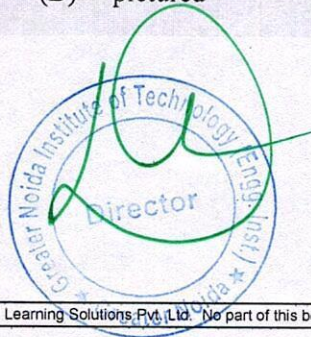
5. The strategies that the company _____ to sell its products _____ house-to-house marketing.

(A) uses, include   (B) use, includes   (C) uses, including   (D) used, includes

Answer: (A)

Q. No. 6 - 10 Carry Two Marks Each

6. "Indian history was written by British historians – extremely well documented and researched, but not always impartial. History had to serve its purpose: Everything was made subservient to the glory of the Union Jack. Latter-day Indian scholar presented a contrary picture."

From the text above, we can infer that:

Indian history written by British historians _____.

(A) was well documented and not researched but was always biased

(B) was not well documented and researched and was sometimes biased

(C) was well documented and researched but was sometimes biased

(D) was not well documented and researched and was always biased

Answer: (C)

---

7. Two design consultants, P and Q, started working from 8 AM for a client. The client budgeted a total of USD 3000 for the consultants. P stopped working when the hour hand moved by 210 degrees on the clock. Q stopped working when the hour hand moved by 240 degrees. P took two tea breaks of 15 minutes each during her shift, but took no lunch break. Q took only one lunch break for 20 minutes, but no tea breaks. The market rate for consultants is USD 200 per hour and breaks are not paid. After paying the consultants, the client shall have USD _____ remaining in the budget.

(A) 000.00   (B) 433.33   (C) 166.67   (C) 300.00

Answer: (C)

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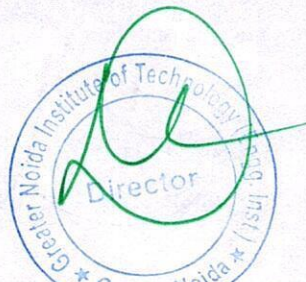
8. Five people P, Q, R, S and T work in a bank . P and Q don't like each other but have to share an office till T gets a promotion and moves to the big office next to the garden. R, who is currently sharing an office with T wants to move to the adjacent office with S, the handsome new intern. Given the floor plan, what is the current location of Q, R and T?

(O = Office, WR = Washroom)

(A)

WR	O 1 P,Q	O 2	O 3 R,T	O 4 S
Manager			Teller	Teller
		Entry		
Garden				

(B)

WR	O 1 P,Q	O 2	O 3 R	O 4 S
Manager T			Teller 1	Teller 2
		Entry		
Garden				

(C)

WR	O 1 P	O 2 Q	O 3 R	O 4 S
Manager			Teller 1	Teller 2
		Entry		
Garden				

(D)

WR	O 1 P,Q	O 2	O 3 T	O 4 R,S
Manager			Teller 1	Teller 2
		Entry		
Garden				

Answer: (A)   **Click here to watch video explanation**

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9. Four people are standing in a line facing you. They are Rahul, Mathew, Seema and Lohit. One is an engineering, one is a doctor, one a teacher and another a dancer. You are told that:

1.   Mathew is not standing next to Seema

2.   There are two people standing beweenLohit and the engineer

3.   Rahul is not a doctor

4.   The teacher and the dancer are standing next to each other.

5.   Seema is turning to her right to speak to the doctor standing next to her.

Who amongst them is an engineer?

(A) Rahul   (B) Mathew   (C) Seema   (D) Lohit

Answer: (B)   **Click here to watch video explanation**

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10.   The bar graph in Panel (a) shows the proportion of male and female illiterates in 2001 and 2011. The proportions of males and females in 2001 and 2011 are given in Panel (b) and (c), respectively. The total population did not change during this period.

The percentage increase in the total number of literate from 2001 to 2011 is _____ .

Proportion of illiterates (%)

Panel (a)

2001

Male 60%   Female 40%

Panel (b)

2011

Male 50%   Female 50%
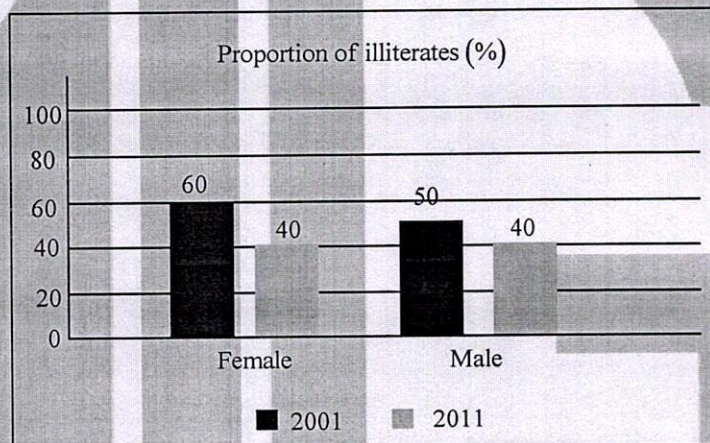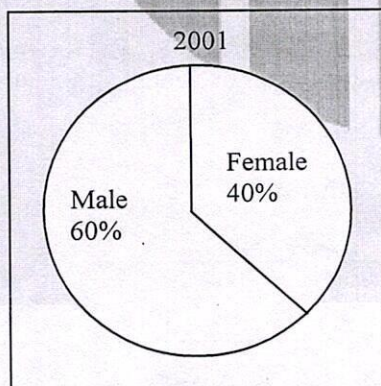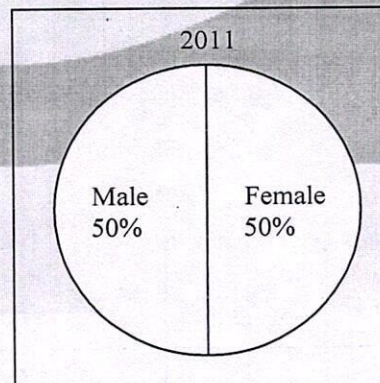
Panel (c)

(A) 33.43   (B) 35.43   (C) 34.43   (D) 30.43
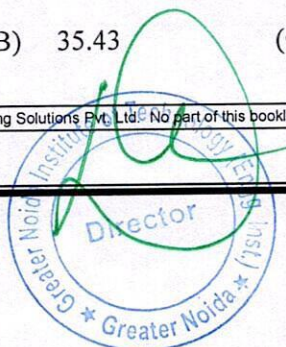
Answer: (D)

ELECTRONICS AND COMMUNICATION ENGINEERING

Q. No. 1 – 25 Carry One Mark Each

1. Radiation resistance of a small dipole current element of length l at a frequency of 3 GHz is 3 ohms. If the length is changed by 1%, then the percentage change in the radiation resistance, rounded off two decimal places, is _____ %.

Answer: (2)

---

2. Which one of the following functions is analytic over the entire complex plane?

   (A) $\ell n(z)$ (B) $\cos(z)$ (C) $e^{1/z}$ (D) $\dfrac{1}{1-z}$

Answer: (B)

---

3. The value of the integral $\displaystyle\int_0^\pi \int_y^\pi \dfrac{\sin x}{x}\,dx\,dy$, is equal to _____.

Answer: (2)

---

4. In the circuit shown, V_S is a square wave of period T with maximum and minimum values of 8V and −10V, respectively.
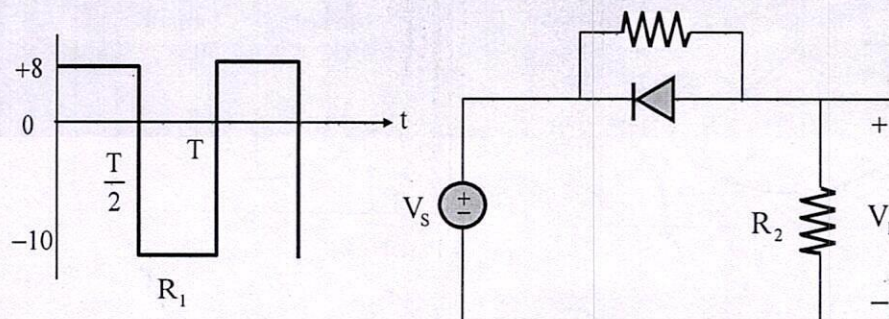
Assume that the diode is ideal and $R_1 = R_2 = 50\Omega$. The average value of V_L is _____ volts (rounded off to 1 decimal place).

Answer: (-3)   **Click here to watch video explanation**

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5. The number of distinct eigen values of the matrix $A = \begin{bmatrix} 2 & 2 & 3 & 3 \\ 0 & 1 & 1 & 1 \\ 0 & 0 & 3 & 3 \\ 0 & 0 & 0 & 2 \end{bmatrix}$ is equal to _____.

Answer: (3)   **Click here to watch video explanation**

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6. The families of curves represented by the solution of the equation $\dfrac{dy}{dx} = -\left(\dfrac{x}{y}\right)^n$

For $n = -1$ and $n = +1$, respectively, are

(A) Hyperbolas and Circles   (B) Circles and Hyperbolas

(C) Hyperbolas and Parabolas   (D) Parabolas and Circles

Answer: (A)   **Click here to watch video explanation**

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7. In the table shown, List-I and List-II, respectively, contain terms appearing on the left-hand side and the right-hand side of Maxwell's equations (in their standard form). Match the left-hand side with the corresponding right-hand side.

	List-I		List-II
1.	$\nabla \times \vec{D}$	P.	0
2.	$\nabla \times \vec{E}$	Q.	ρ
3.	$\nabla \cdot \vec{B}$	R.	$\dfrac{-\partial \vec{B}}{\partial t}$
4.	$\nabla \times \vec{H}$	S.	$\vec{J} + \dfrac{\partial \vec{D}}{\partial t}$

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Codes:

(A) 1-P, 2-R, 3-Q, 4-S

(B) 1-R, 2-Q, 3-S, 4-P

(C) 1-Q, 2-R, 3-P, 4-S

(D) 1-Q, 2-S, 3-P, 4-R

Answer: (A)

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8. Consider the signal $f(t)=1+2\cos(\pi t)+3\sin\left(\frac{2\pi}{3}t\right)+4\cos\left(\frac{\pi}{2}t+\frac{\pi}{4}\right)$, where t is in seconds. Its fundamental time period, in seconds, is _____.

Answer: (12)

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9. If X and Y are random variables such that $E[2X+Y]=0$ and $E[X+2Y]=33$, the $E[X]+E[Y]=$ _____.

Answer: (11)

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10. In the circuit shown, what are the values of F for EN = 0 and EN = 1, respectively?
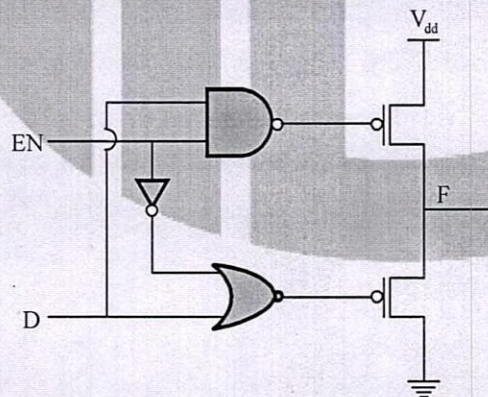
(A) 0 and 1

(B) Hi – Z and $\bar{D}$

(C) 0 and D

(D) Hi – Z and D

Answer: (D)

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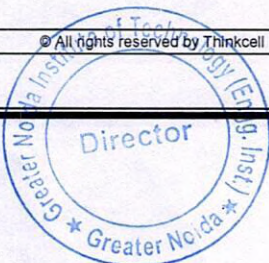
11. Let H(z) be the z-transform of a real-valued discrete time signal h[n]. If $P(z) = H(z)H\left(\dfrac{1}{z}\right)$ has a zero

$z = \dfrac{1}{2} + \dfrac{1}{2}j$, and P(z) has a total of four zeros, which one of the following plots represents all the zeros

correctly?

(A)
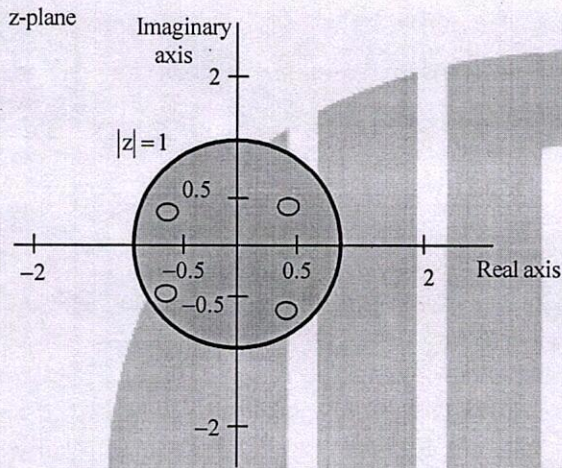
(B)
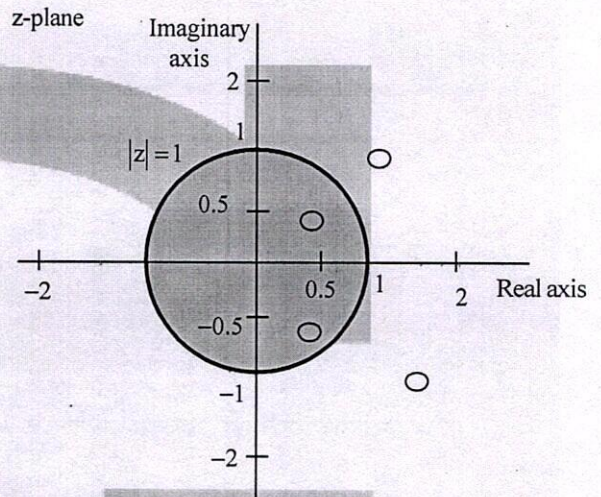
(C)
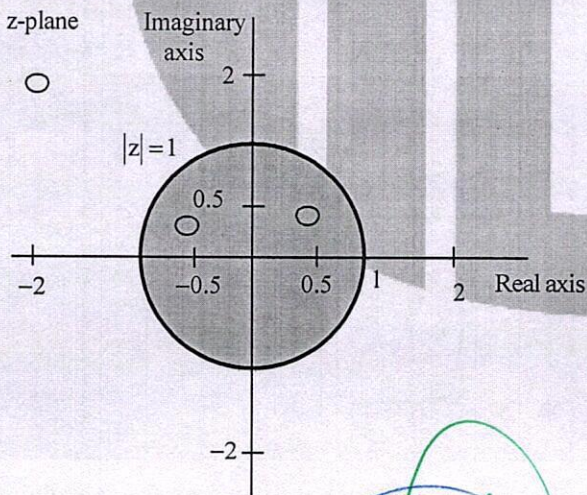
(D)
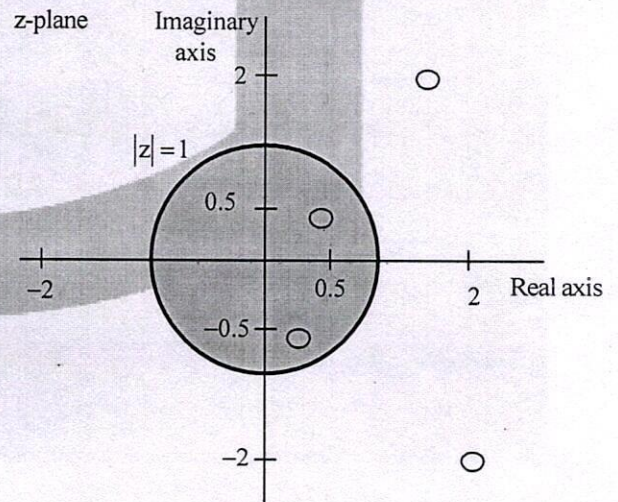
Answer: (B)
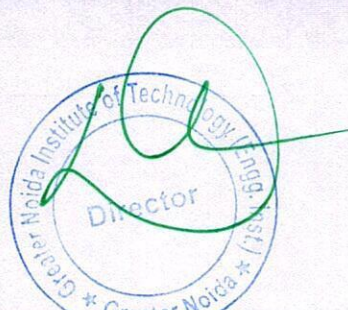
Click here to watch video explanation

12. Which one of the following options describes correctly the equilibrium band diagram at T= 300 K of a Silicon pnn$^+$p^{++} configuration shown in the figure?

p	n	n$^+$	p^{++}

(A)

(B)

(C)

(D)
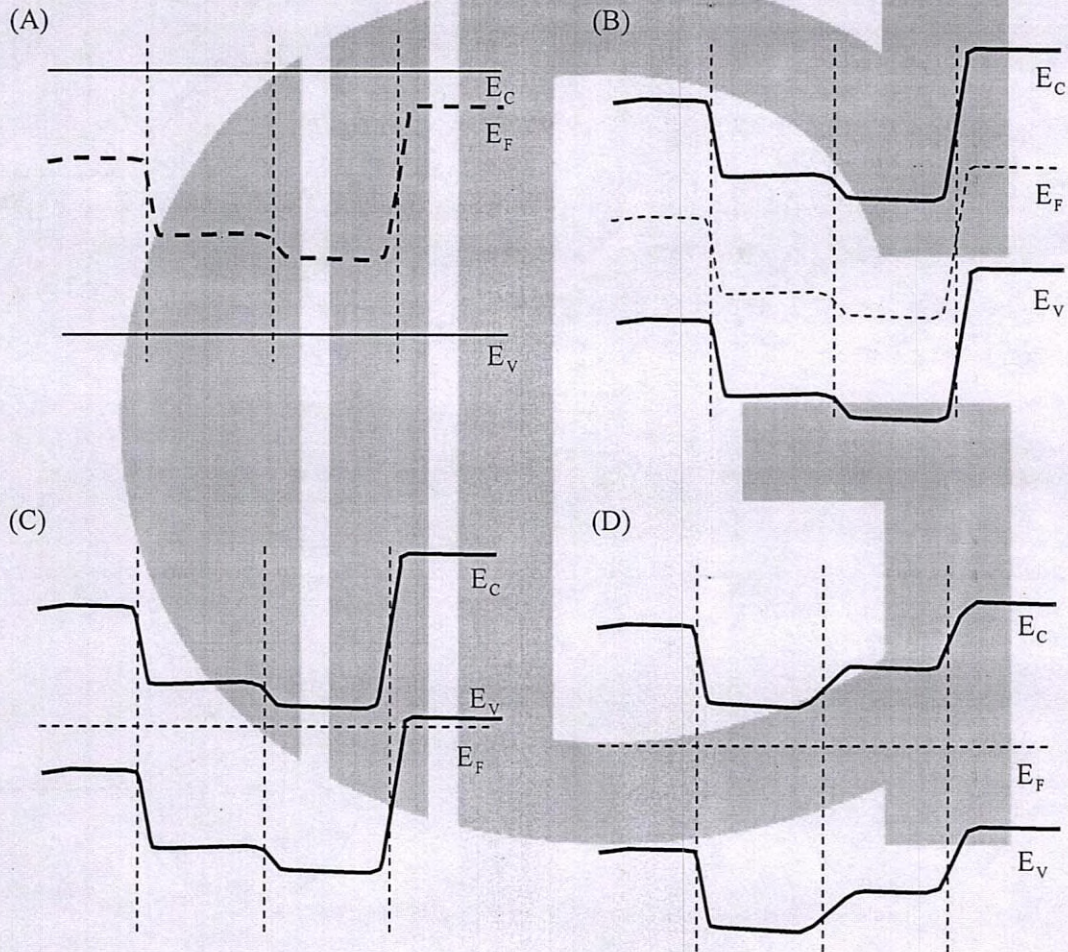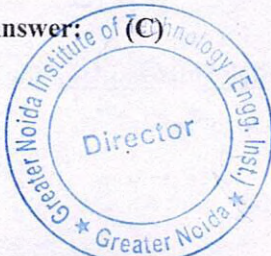
Answer: (C)

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13. In the circuit shown, A and B are the inputs and F is the output. What is the functionality of the circuit?
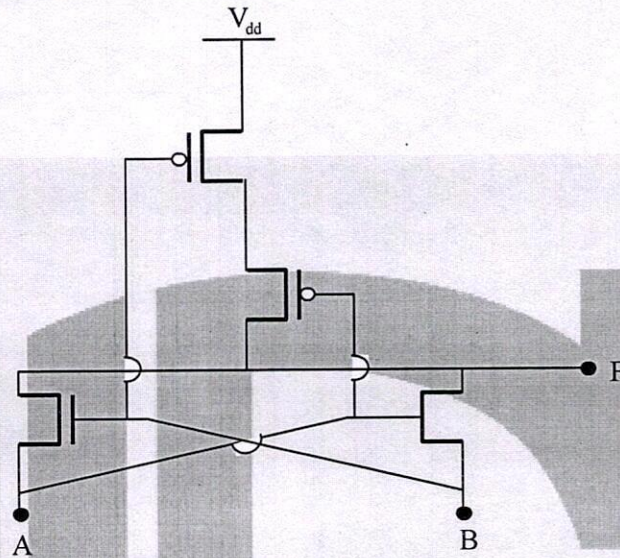
(A) XOR   (B) XNOR   (C) Latch   (D) SRAM cell

Answer: (B)   **Click here to watch video explanation**

14. The correct circuit representation of the structure shown in the figure is
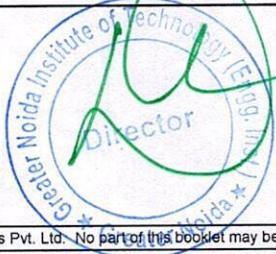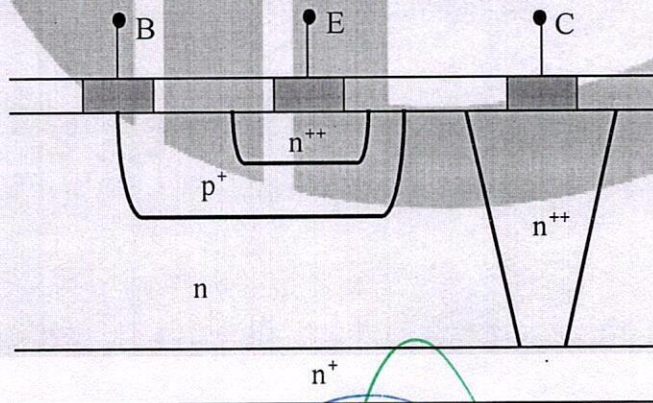
(A)

C

B

E

(B)

C

B

E

(C)

C

B

E

(D)

C

B

E
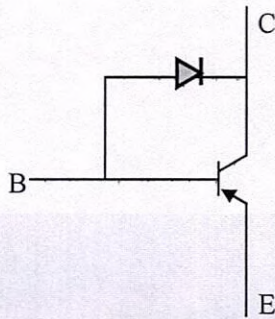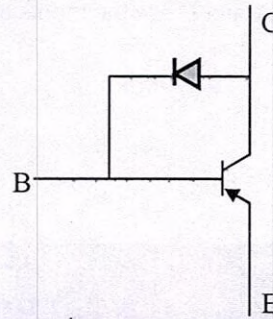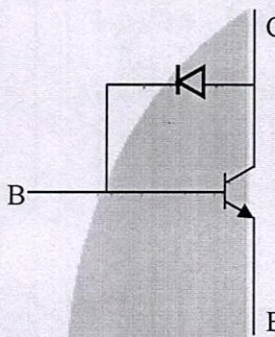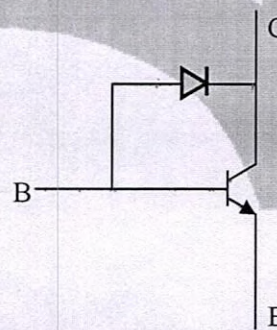
Answer: **(D)**

<u>Click here to watch video explanation</u>

---

15. What is the electric flux $\left(\int \vec{E}.d\vec{a}\right)$ through a quarter-cylinder of height H (as shown in the figure) due to an infinitely long line charge along the axis of the cylinder with a charge density of Q?

ε_0

H

Q
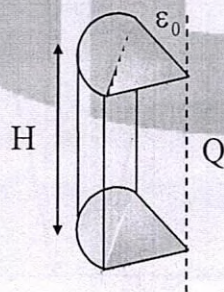
(A) $\dfrac{HQ}{4\varepsilon_0}$

(B) $\dfrac{H\varepsilon_0}{4Q}$

(C) $\dfrac{4H}{Q\varepsilon_0}$

(D) $\dfrac{HQ}{\varepsilon_0}$

Answer: **(B)**

<u>Click here to watch video explanation</u>
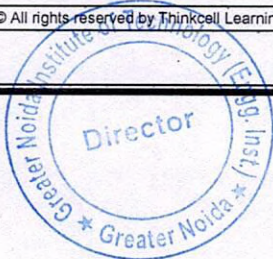
16. Let Z be an exponential random variable with mean 1. That is, the cumulative distribution function of Z is given by

$$F_z(x) = \begin{cases} 1 - e^{-x} & \text{if } x \geq 0 \\ 0 & \text{if } x < 0 \end{cases}$$

The $Pr(Z > 2 | Z > 1)$, rounded off to two decimal places, is equal to _____.

Answer: **(0.37)**

17. A linear Hamming code is used to map 4-bit messages to 7-bit codewords. The encoder mapping is linear. If the message 0001 is mapped to the codeword 0000111, and the message 0011 is mapped to the codeword 1100110, then the message 0010 is mapped to

(A) 0010011   (B) 1111111   (C) 1111000   (D) 1100001

Answer: **(D)**

18. In the circuit shown, the clock frequency, i.e., the frequency of the Clk signal, is 12 kHz. The frequency of the signal at Q_2 is _____ kHz.
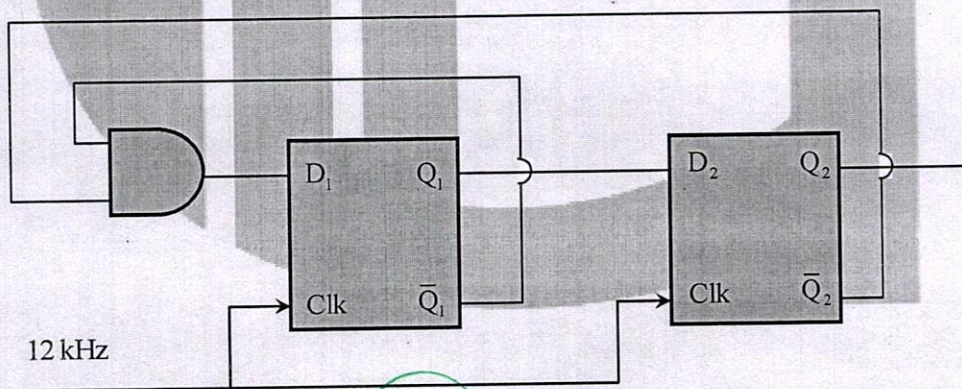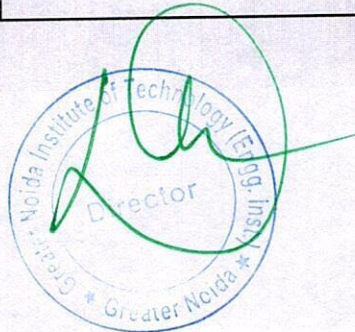
12 kHz

Answer: **(4)**

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14
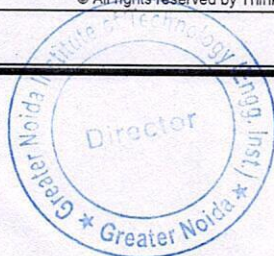
19. A standard CMOS inverter is designed with equal rise and fall times $(\beta_n = \beta_p)$. If the width of the pMOS transistor in the inverter is increased, what would be the effect on the LOW noise margin (NM_L) and the HIGH noise margin NM_H?

    (A) NM_L increases and NM_H decrease

    (B) Both NM_L and NM_H increase

    (C) No change in the noise margins

    (D) NM_L decreases and NM_H increases

Answer: **(A)**

20. For an LTI system, the Bode plot for its gain is as illustrated in the figure shown. The number of system poles N_p and the number of system zeros N_z in the frequency range $1Hz \le f \le 10^7 Hz$ is
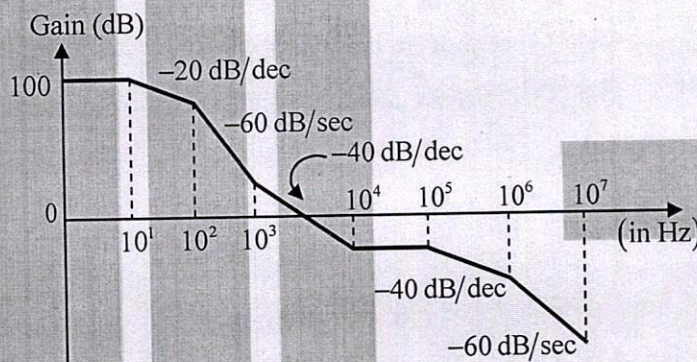
    (A) $N_p = 4, N_z = 2$

    (B) $N_p = 7, N_z = 4$

    (C) $N_p = 6, N_z = 3$

    (D) $N_p = 5, N_z = 2$

Answer: **(C)**

21. The figure shows the high-frequency C-V curve of a MOS capacitor (at T=300 K) with $\Phi_{ms} = 0$ V and no oxide charges. The flat-band, inversion, and accumulation conditions are represented, respectively, by the points.
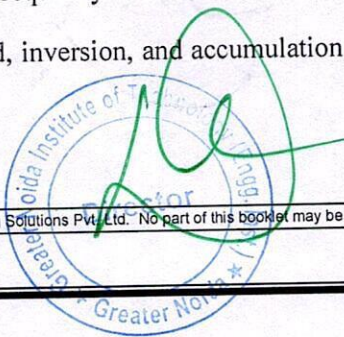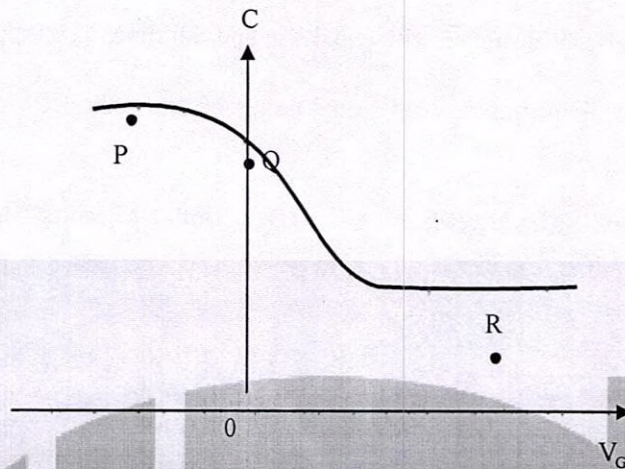
(A) R,P,Q   (B) Q,P,R   (C) P,Q,R   (D) Q,R,P

Answer: **(D)**   **Click here to watch video explanation**

- -

22. Consider the two-port resistive network shown in the figure. When an excitation of 5V is applied across Port 1, and Port 2 is shorted, the current through the short circuit at Port 2 is measured to be 1 A (see (a) in the figure).
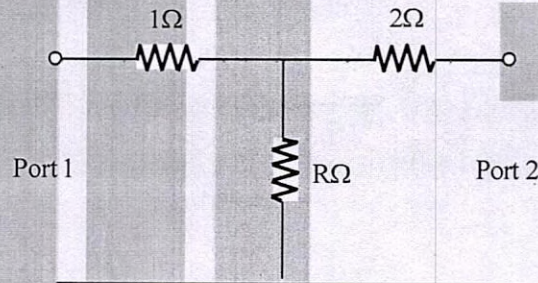
Now, if an excitation of 5 V is applied across port 2, and port 1 is shorted (see (b) in the figure), what is the current through the short circuit at port 1?

(a)   (b)
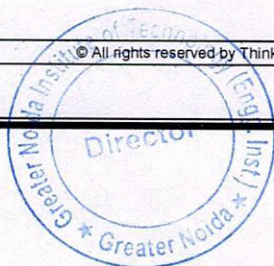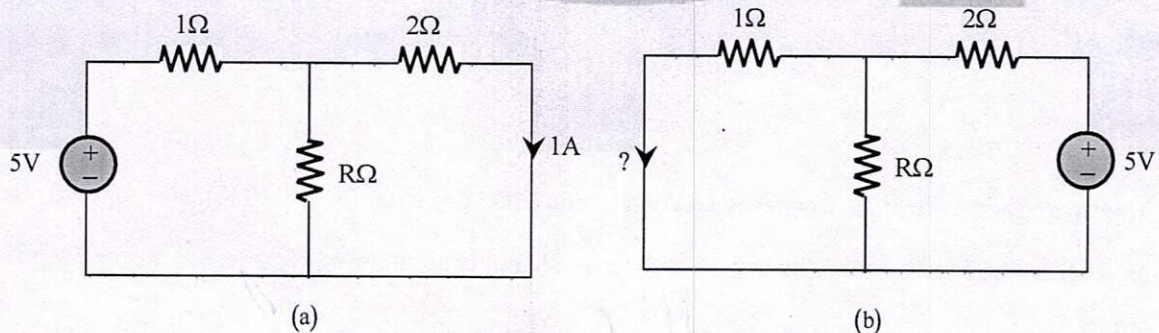
(A) 1A   (B) 2A   (C) 2.5A   (D) 0.5A

Answer: (A)   **Click here to watch video explanation**

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23. Let Y (s) be the unit-step response of a causal system having a transfer function

$$G(s) = \frac{3-s}{(s+1)(s+3)}$$

That is, $Y(s) = \dfrac{G(s)}{s}$. The forced response of the system is

(A) $u(t) - 2e^{-t}u(t) + e^{-3t}u(t)$ (B) $2u(t)$

(C) $u(t)$ (D) $2u(t) - 2e^{-t}u(t) + e^{-3t}u(t)$

Answer: (A)

---

24. The baseband signal m(t) shown in the figure is phase-modulated to generate the PM signal

$$\varphi(t) = \cos(2\pi f_c t + km(t)).$$
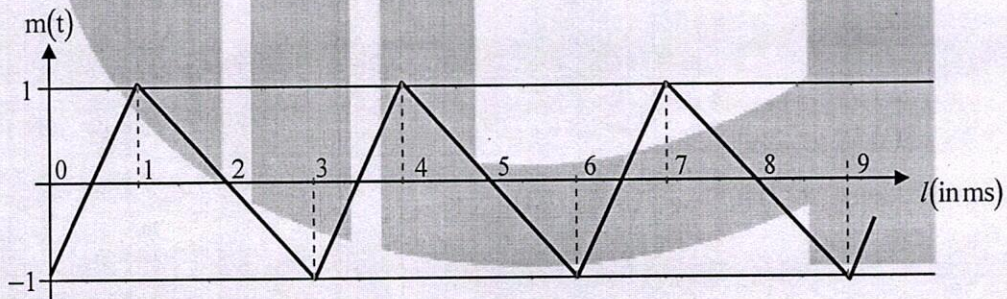
The time t on the x-axis in the figure is in milliseconds. If the carrier frequency is $f_c = 50\,kHz$ and $k = 10\pi$, the ratio of the minimum instantaneous frequency (in kHz) to the maximum instantaneous frequency (in kHz) is _____ (rounded off to 2 decimal places).

Answer: (0.75)   **Click here to watch video explanation**
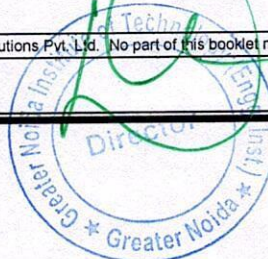
25. The value of the contour integral

$$\frac{1}{2\pi j}\oint\left(z+\frac{1}{z}\right)^{2}dz$$

Evaluated over the unit circle $|z|=1$ is_____.

Answer: (0) <u>**Click here to watch video explanation**</u>

<u>**Q. No. 26 - 55 Carry Two Marks Each**</u>

26. In the circuit shown, the threshold voltages of the pMOS $\left(|V_{tp}|\right)$ and nMOS (V_{tn}) transistors are both equal to 1 V. All the transistors have the same output resistance r_{ds} of 6 MΩ. The other parameters are listed below:

$$\mu_n C_{ox} = 60\,\mu A/V^2 ; \left(\frac{W}{L}\right)_{nMOS} = 5$$

$$\mu_p C_{ox} = 30\,\mu A/V^2 ; \left(\frac{W}{L}\right)_{pMOS} = 10$$

μ_n and μ_p are the carrier mobilities, and C_{ox} is the oxide capacitance per unit area. Ignoring the effect of channel length modulation and body bias, the gain of the circuit is_____ (rounded off to 1 decimal place).
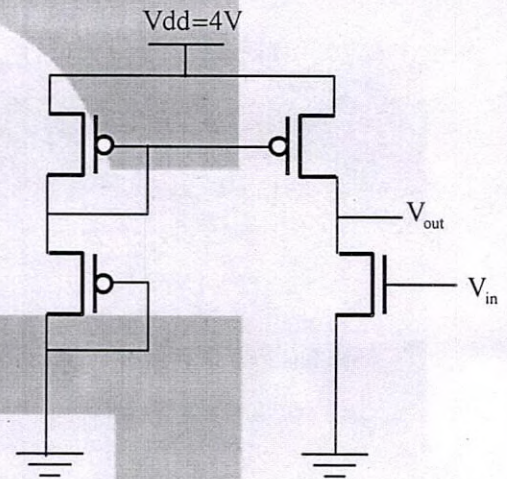
Answer: (-900) <u>**Click here to watch video explanation**</u>

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27. It is desired to find three-tap causal filter which gives zero signal as an output to and input of the form

$$x[n] = c_1\exp\left(-\frac{j\pi n}{2}\right) + c_2\exp\left(\frac{j\pi n}{2}\right),$$

Where c_1 and c_2 are arbitrary real numbers. The desired three-tap filter is given by

$$h[0] = 1, \quad h[1] = a, \quad h[2] = b \text{ and}$$
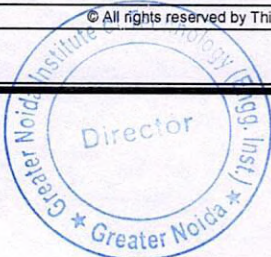
$h[n] = 0$ for $n < 0$ or $n > 2$.

What are the values of the filter taps a and b if the output is $y[n] = 0$ for all n, when x[n] is as given above?

$$x[n] \longrightarrow \boxed{\begin{array}{c} n = 0 \\ \downarrow \\ h[n] = \{1, a, b\} \end{array}} \longrightarrow y[n] = 0$$
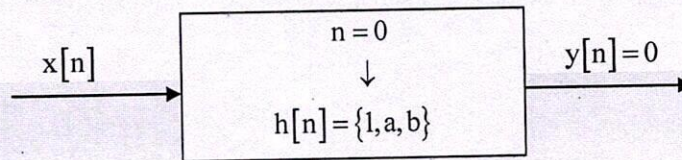
(A) $a = -1, b = 1$ (B) $a = 0, b = 1$ (C) $a = 1, b = 1$ (D) $a = 0, b = -1$

Answer: **(B)**

---

28. Let h[n] be length-7 discrete-time finite impulse response filter, given by

$$h[0] = 4, \ h[1] = 3, \ h[2] = 2, \ h[3] = 1$$
$$h[-1] = -3, \ h[-2] = -2, \ h[-3] = -1,$$

and $h[n]$ is zero for $|n| \geq 4$. A length-3 finite impulse response approximation g[n] of h[n] has to be obtained such that

$$E(h, g) = \int_{-\pi}^{\pi} \left| H(e^{j\omega}) - G(e^{j\omega}) \right|^2 d\omega$$

is minimized, where $H(e^{j\omega})$ and $G(e^{j\omega})$ are the discrete-time Fourier transforms of h[n] and g[n], respectively. For the filter that minimizes E(h,g), the value of $10g[-1] + g[1]$, rounded off to 2 decimal places, is_____.

Answer: (−27)

29. Consider the line integral $\int_C (xdy - ydx)$. The integral being taken in a counterclockwise direction over the closed curve C that forms the boundary of the region R shown in the figure below. The region R is the area enclosed by the union of a 2×3 rectangle and a semi-circle of radius 1. The line integral evaluates to
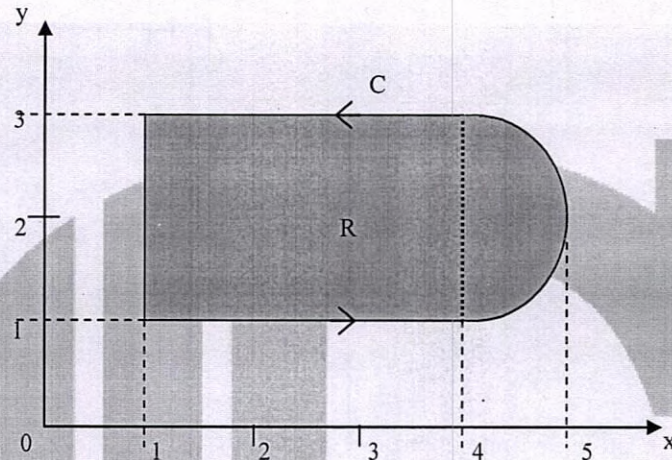
(A) $16 + 2\pi$ (B) $6 + \pi/2$ (C) $12 + \pi$ (D) $8 + \pi$

Answer: (C)   <u>Click here to watch video explanation</u>

30. A rectangular waveguide of width w and height h has cut-off frequencies for TE_{10} and $T_{E_{11}}$ modes in the ratio 1:2. The aspect ratio w/h, rounded off to two decimal places, is_____.

Answer: (1.732)   <u>Click here to watch video explanation</u>

31. A Germanium sample of dimensions $1cm \times 1cm$ is illuminated with a 20 mW, 600 nm laser light source as shown in the figure. The illuminated sample surface has a 100 nm of loss-less Silicon dioxide layer that reflects one-fourth of the incident light.

20mW, 600 nm

1 cm

1 cm

100 nm

Silicon dioxide

Germanium

T
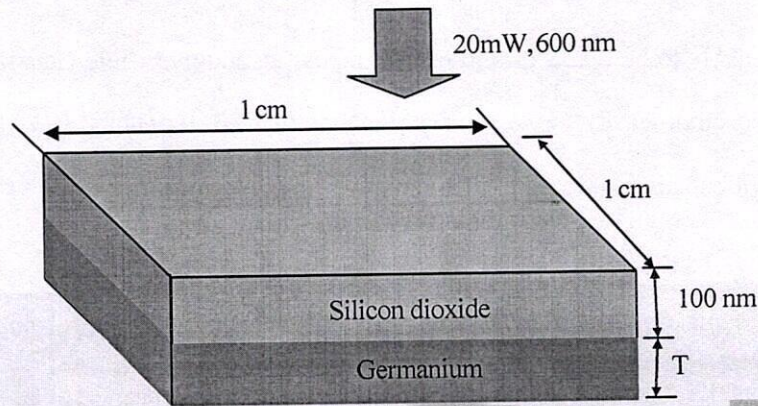
From the remaining light, one-third of the power is reflected form the silicon dioxide- Germanium interface, one-third is absorbed in the Germanium layer, and one-third is transmitted through the other side of the sample. If the absorption coefficient of Germanium at 600 nm is 3×10^4 cm^{-1} and the bandgap is 0.66 eV, the thickness of the Germanium layer, rounded off to 3 decimal places, is _____ μm.

Answer: (0.231)

<u>Click here to watch video explanation</u>

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32. In the circuit shown, the breakdown voltage and the maximum current of the Zener diode are 20 V and 60 mA, respectively. The values of R_1 and R_L are 200 Ω and 1 kΩ, respectively. What is the range of V_i that will maintain the Zener diode in the 'ON' state?

R_1

V_i

R_L
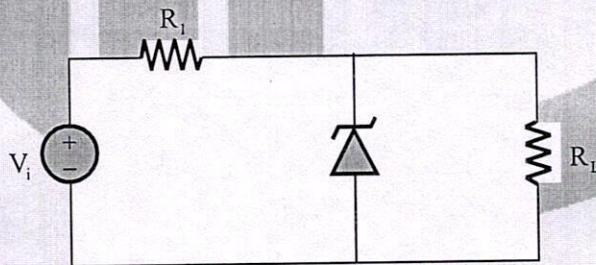
(A)   24 V to 36V   (B)   22 V to 34 V   (C)   20 V to 28 V   (D)   18 V to 24 V

Answer: **(A)**

<u>Click here to watch video explanation</u>
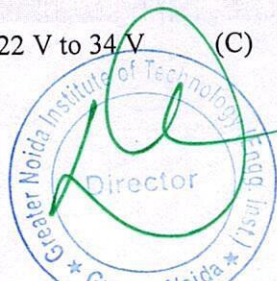
33. A single bit, equally likely to be 0 and 1, is to be sent across an additive white Gaussian noise (AWGN) channel with power spectral density $N_0/2$. Binary signaling, with $0 \rightarrow p(t)$ and $1 \rightarrow q(t)$, is used for the transmission, along with an optimal receiver that minimizes the bit-error probability.

Let $\varphi_1(t), \varphi_2(t)$ form and orthonormal signal set.

If we choose $p(t) = \varphi_1(t)$ and $q(t) = -\varphi_1(t)$, we would obtain a certain bit-error probability P_b.

If we keep $p(t) = \varphi_1(t)$, but take $q(t) = \sqrt{E}\varphi_2(t)$, for what value of E would we obtain the same bit-error probability P_b?

(A) 3   (B) 1   (C) 2   (D) 0

Answer: (A)   **Click here to watch video explanation**

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34. Consider a six-point decimation-in-time Fast Fourier Transform (FFT) algorithm, for which the signal-flow graph corresponding to X[1] is shown in the figure. Let $W_6 = \exp\left(-\dfrac{j2\pi}{6}\right)$. In the figure, what should be the values of the coefficients a_1, a_2, a_3 in terms of W_6 so that X[1] is obtained correctly ?
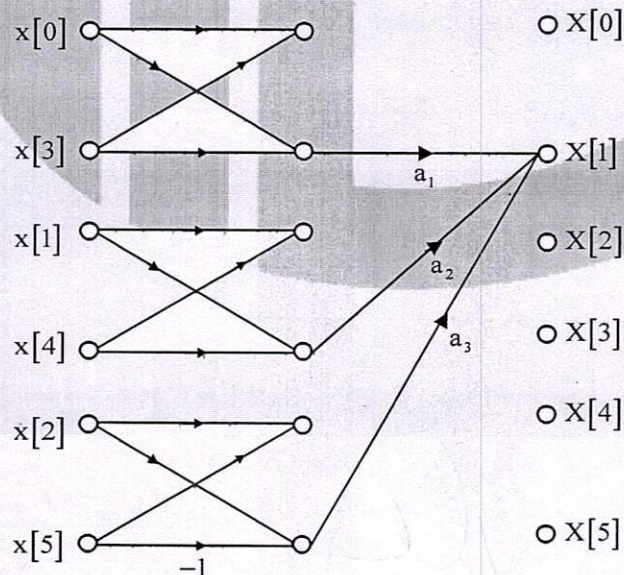
(A) $a_1 = 1, a_2 = W_6^2, a_3 = W_6$ (B) $a_1 = -1, a_2 = W_6^2, a_3 = W_6$

(C) $a_1 = -1, a_2 = W_6, a_3 = W_6^2$ (D) $a_1 = 1, a_2 = W_6, a_3 = W_6^2$

Answer: **(D)**

---

35. The quantum efficiency (η) and responsivity (R) at a wavelength λ (in μm) in a p-i-n photo detector are related by

(A) $R = \dfrac{\eta \times \lambda}{1.24}$ (B) $R = \dfrac{\lambda}{\eta \times 1.24}$ (C) $R = \dfrac{1.24 \times \lambda}{\eta}$ (D) $R = \dfrac{1.24}{\eta \times \lambda}$

Answer: **(A)**   **Click here to watch video explanation**

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36. Consider a long-channel MOSFET with a channel length $1\mu m$ and width $10\mu m$. The device parameters are acceptor concentration $N_A = 5 \times 10^{16} \, cm^{-3}$, electron mobility $\mu_n = 800 \, cm^2/V - s$, oxide capacitance/area $C_{ox} = 3.45 \times 10^{-7} \, F/cm^2$, threshold voltage $V_T = 0.7V$. The drain saturation current (I_{Dsat}) for a gate voltage of 5V is _____ mA. (rounded off to two decimal places).

$\left[\varepsilon_0 = 8.854 \times 10^{-14} \, F/cm, \varepsilon_{Si} = 11.9 \right]$

Answer: **(25.51)**   **Click here to watch video explanation**

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37. A voice signal m (t) is in the frequency range 5 kHz to 15 kHz. The signal is amplitude modulated to generate an AM signal $f(t) = A(1 + m(t)) \cos 2\pi f_c t$, where $f_c = 600$ kHz.

The Am signal f(t) is to be digitized and archived. This is done by first sampling f(t) at 1.2 times the Nyquist frequency, and then quantizing each sample using a 256-level quantizer. Finally, each quantized sample is binary coded using K bits, where K is the minimum number of bits required for the encoding. The rate, in Megabits per second (rounded off to 2 decimal places), of the resulting stream of coded bits is

_____ Mbps.

Answer: **(0.192)**   **Click here to watch video explanation**

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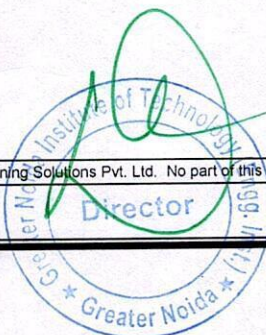
38. A random variable X takes values -1 and +1 with probabilities 0.2 and 0.8, respectively. It is transmitted across a channel which adds noise N, so that the random variable at the channel output is Y = X +N. The noise N is independent of X, and is uniformly distributed over the interval [-2, 2]. The receiver makes a decision

$$\hat{X} = \begin{cases} -1, \text{if } Y \le \theta \\ +1, \text{if } Y > \theta \end{cases}$$

Where the threshold $\theta \in [-1,1]$ is chosen so as to minimize the probability of error $\Pr\left[\hat{X} \ne X\right]$. The minimum probability of error, rounded off to 1 decimal place, is _____.

Answer: (0.1)

---

39. Let the state-space representation of an LTI system be $\dot{x}(t) = Ax(t) + Bu(t)$, $y(t) = Cx(t) + d\,u(t)$ where A,B,C are matrices, d is a scalar, u(t) is the input to the system, and y(t) is its output. Let $B = \begin{bmatrix} 0 & 0 & 1 \end{bmatrix}^T$ and $d = 0$. Which one of the following options for A and C will ensure that the transfer function of this LTI system is $H(s) = \dfrac{1}{s^3 + 3s^2 + 2s + 1}$?

(A) $A = \begin{bmatrix} 0 & 1 & 0 \\ 0 & 0 & 1 \\ -1 & -2 & -3 \end{bmatrix}$ and $C = \begin{bmatrix} 1 & 0 & 0 \end{bmatrix}$

(B) $A = \begin{bmatrix} 0 & 1 & 0 \\ 0 & 0 & 1 \\ -1 & -2 & -3 \end{bmatrix}$ and $C = \begin{bmatrix} 0 & 0 & 1 \end{bmatrix}$

(C) $A = \begin{bmatrix} 0 & 1 & 0 \\ 0 & 0 & 1 \\ -3 & -2 & -1 \end{bmatrix}$ and $C = \begin{bmatrix} 0 & 0 & 1 \end{bmatrix}$

(D) $A = \begin{bmatrix} 0 & 1 & 0 \\ 0 & 0 & 1 \\ -3 & -2 & -1 \end{bmatrix}$ and $C = \begin{bmatrix} 1 & 0 & 0 \end{bmatrix}$

Answer: (A)

40. Two identical copper wires W_1 and W_2, placed in parallel as shown in the figure, carry currents I and 2I respectively, in opposite directions. If the two wires are separated by a distance of 4r, then the magnitude of the magnetic field $\vec{B}$ between the wires at a distance r from W_1 is _____.

W_1 ————————————

$\updownarrow$ r

————————————

W_2 ————————————
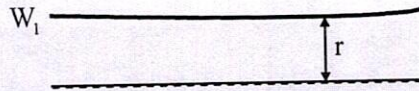
(A) $\dfrac{6\mu_0 I}{5\pi r}$ (B) $\dfrac{5\mu_0 I}{6\pi r}$ (C) $\dfrac{\mu_0 I}{6\pi r}$ (D) $\dfrac{\mu_0^2 I^2}{2\pi r^2}$

Answer: (C)

<u>Click here to watch video explanation</u>

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41. In the circuit shown, V_s is a 10V square wave of period, T=4 ms with R = 500Ω and C = 10 μF. The capacitor is initially uncharged at t = 0, and the diode is assumed to be ideal.

+10

0

−10

$\dfrac{T}{2}$ T

R

V_s (+/−)

C

V_c

+

−
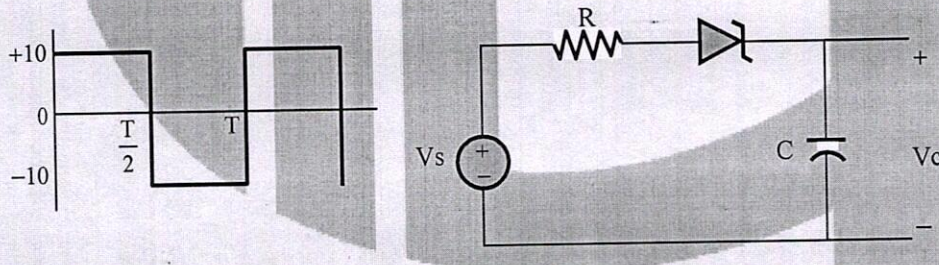
The voltage across the capacitor (V_c) at 3 ms is equal to _____ volts (rounded off to one decimal place).

Answer: (3.31)

<u>Click here to watch video explanation</u>
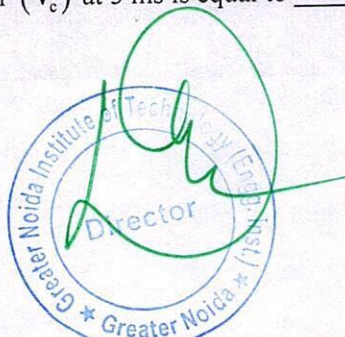
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42. Consider a causal second-order system with the transfer function $G(s) = \dfrac{1}{1 + 2s + s^2}$. With a unit-step

$R(s) = \dfrac{1}{s}$ as an input. Let C(s) be the corresponding output. The time taken by the system output C(t) to

reach 94% of its steady-state value $\lim_{t \to \infty} c(t)$, rounded off to two decimal places, is

(A) 5.25   (B) 2.81   (C) 4.50   (D) 3.89

Answer: (C)

---

43. The RC circuit shown below has a variable resistance R(t) given by the following expression:

$$R(t) = R_0 \left(t - \frac{t}{T} \right) \text{ for } 0 \le t < T$$
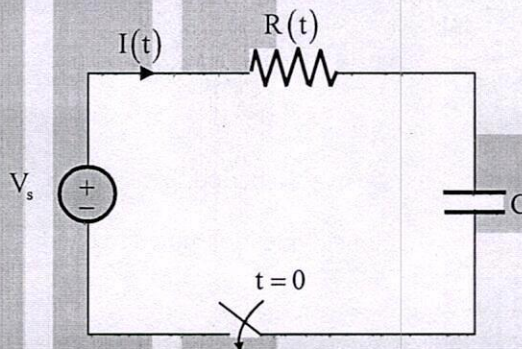
Where $R_0 = 1\Omega$, $C = 1F$. We are also given that $T = 3\,R_0 C$ and the source voltage is $V_s = 1V$. If the current

at time t = 0 is 1A, then the current I(t), in amperes, at time t = T/2 is_____(rounded off to 2 decimal

places).

Answer: (0.25)   **Click here to watch video explanation**

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44. In an ideal p-n junction with an ideality factor of 1 at T=300 K, the magnitude of the reverse-bias voltage

required to reach 75% of its reverse saturation current, rounded off to 2 decimal places, is _____mV.

$$\left[k = 1.38 \times 10^{-23}\,JK^{-1}, h = 6.625 \times 10^{-34}\,J-s, q = 1.602 \times 10^{-19}\,C \right]$$

Answer: (35.87)   **Click here to watch video explanation**
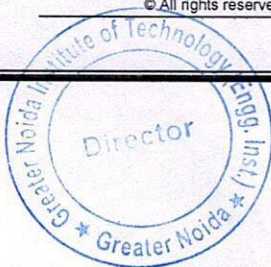
45. The dispersion equation of a waveguide, which relates the wave number k to the frequency ω, is

$$k(\omega) = (1/c)\sqrt{\omega^2 - \omega_0^2}$$

Where the speed of light $c = 3 \times 10^8$ m/s, and ω_0 is a constant. If the group velocity is 2×10^8 m/s, then the phase velocity is

(A) 2×10^8 m/s   (B) 1.5×10^8 m/s   (C) 3×10^8 m/s   (D) 4.5×10^8 m/s

Answer: **(D)**   <u>**Click here to watch video explanation**</u>

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46. The state transition diagram for the circuit shown is

(A)

(B)

(C)

(D)

Answer: **(B)**   <u>**Click here to watch video explanation**</u>

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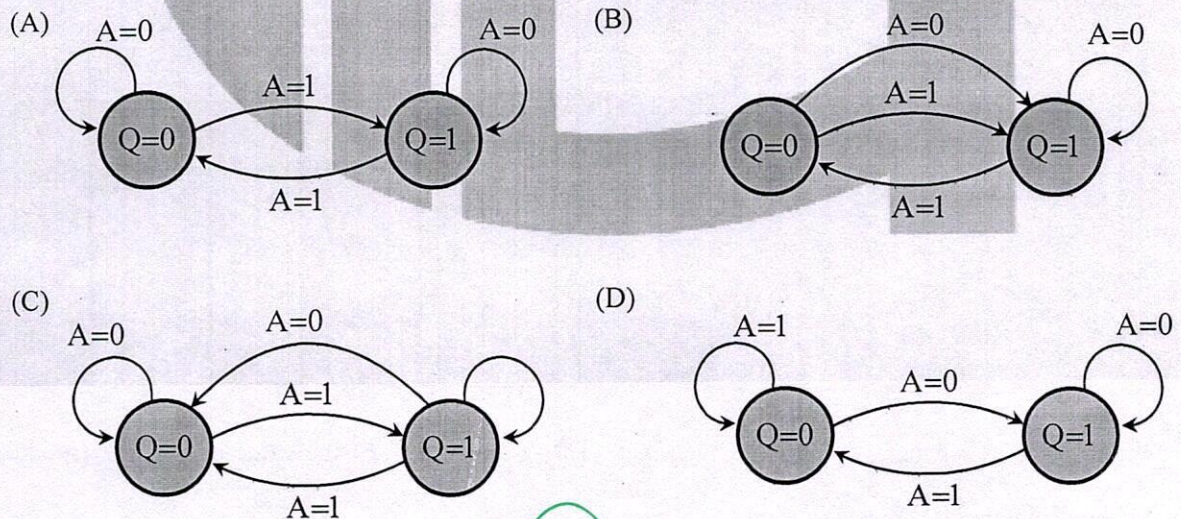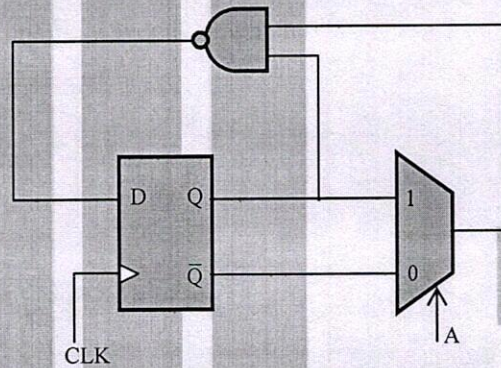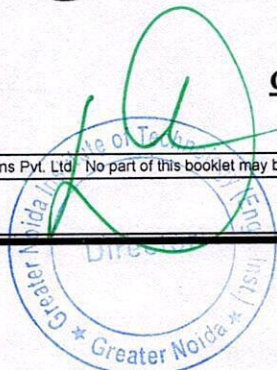
47. Consider a unity feedback system, as in the figure shown,
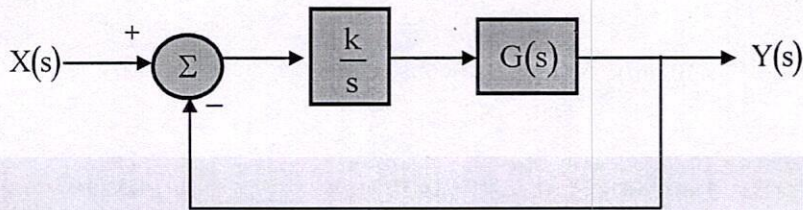
with an integral compensator k/s and open-loop transfer function

$$G(s) = \frac{1}{s^2 + 3s + 2}$$

Where k>0. The positive value of K for which there are exactly two poles of the unity feedback system on the $j\omega$ axis is equal to _____ (rounded off to two decimal places).

Answer: (6)

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48. Consider a differentiable function $f(x)$ on the set of real numbers such that $f(-1) = 0$ and $\left|f'(x)\right| \leq 2.$

Given these conditions, which one of the following inequalities is necessarily true for all $x \in [-2, 2]$?

(A) $f(x) \leq 2|x+1|$

(B) $f(x) \leq 2|x|$

(C) $f(x) \leq \frac{1}{2}|x+1|$

(D) $f(x) \leq \frac{1}{2}|x|$

Answer: (A)   **Click here to watch video explanation**

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49. Consider the homogeneous ordinary differential equation $x^2 \dfrac{d^2y}{dx^2} - 3x\dfrac{dy}{dx} + 3y = 0, \ x > 0$

With $y(x)$ as a general solution. Given that $y(1) = 1$ and $y(2) = 14$ the value of $y(1.5)$, (rounded off to two decimal places), is _____ .

Answer: (5.25)   **Click here to watch video explanation**
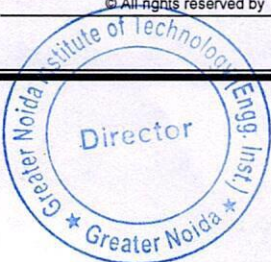
50. Let a random process $Y(t)$ be described as $Y(t) = h(t) \times X(t) + Z(t)$, where $X(t)$ is a white noise process with power spectral density $S_X(f) = 5 W/Hz$.
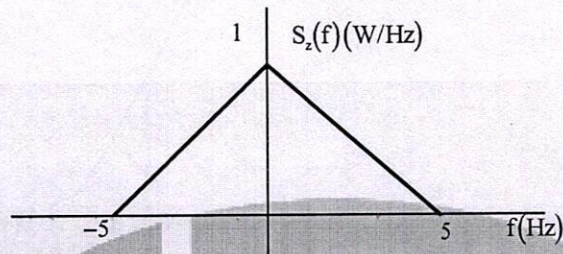
The filter $h(t)$ has a magnitude response given by $|H(f)| = 0.5$ for $-5 \leq f \leq 5$, and zero elsewhere. $Z(t)$ is a stationary random process, uncorrelated with $X(t)$, with power spectral density as shown in the figure. The power in $Y(t)$, in watts, is equal to _____ W. (rounded off to two decimal places).

Answer: **(17.5)**   **Click here to watch video explanation**

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51. In the circuits shown, the threshold voltage of each nMOS transistor is 0.6V. Ignoring the effect of channel length modulation and body bias, the values of V_{out1} and V_{out2}, respectively, in volts, are
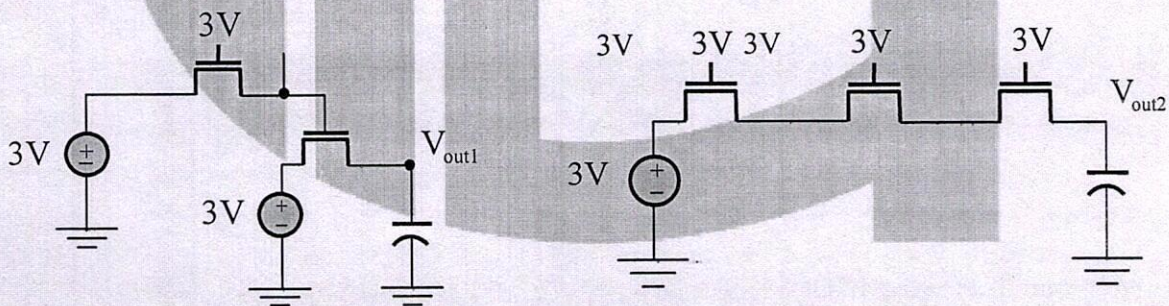
(A)   2.4 and 1.2   (B)   2.4 and 2.4   (C)   1.8 and 1.2   (D)   1.8 and 2.4

Answer: **(D)**   **Click here to watch video explanation**
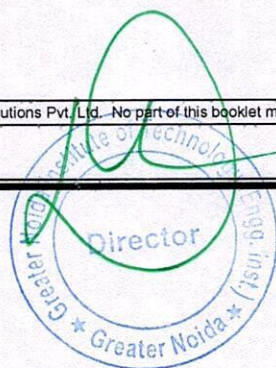
52. A CMOS inverter, designed to have a mid-point voltage V_I equal to half of V_{dd}, as shown in the figure, has the following parameters:

$V_{dd} = 3V$

$\mu_n C_{ox} = 100\mu A/V^2;$

$V_{tn} = 0.7\,V$ for nMOS

$\mu_p C_{ox} = 40\mu A/V^2$;
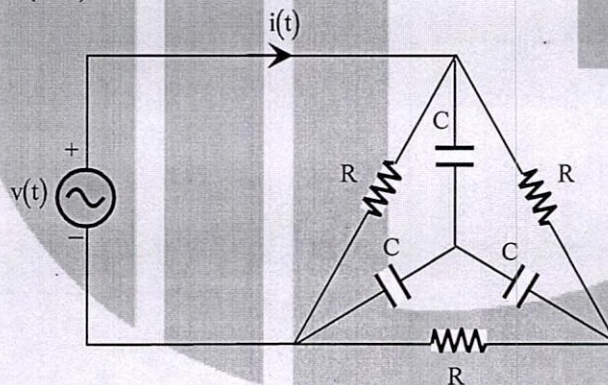
$|V_{tp}| = 0.9V$ for pMOS
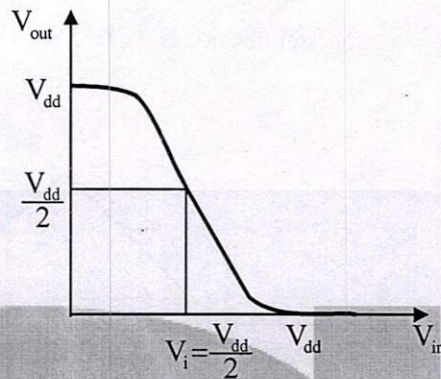
The ratio of $\left(\dfrac{W}{L}\right)_n$ to $\left(\dfrac{W}{L}\right)_p$ is equal to _____. (rounded off to three decimal places).

Answer: (0.225)

Click here to watch video explanation

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53. In the circuit shown, if $v(t) = 2\sin(1000t)$ volts, $R = 1k\Omega$, and $C = 1\mu F$, then the steady-state current $i(t)$, in milliamperes (mA) is

(A) $\sin(1000t) + \cos(1000t)$

(B) $\sin(1000t) + 3\cos(1000t)$

(C) $2\sin(1000t) + 2\cos(1000t)$

(D) $3\sin(1000t) + \cos(1000t)$

Answer: (D)

Click here to watch video explanation

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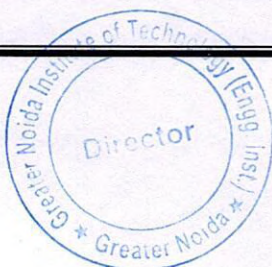
54. The block diagram of a system is illustrated in the figure shown, where X(s) is the input and Y(s) is the output. The transfer function $H(s) = \dfrac{Y(s)}{X(s)}$ is
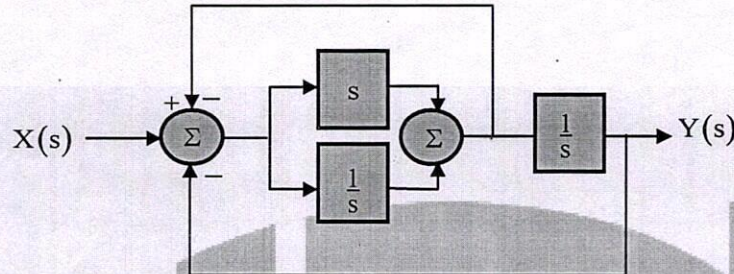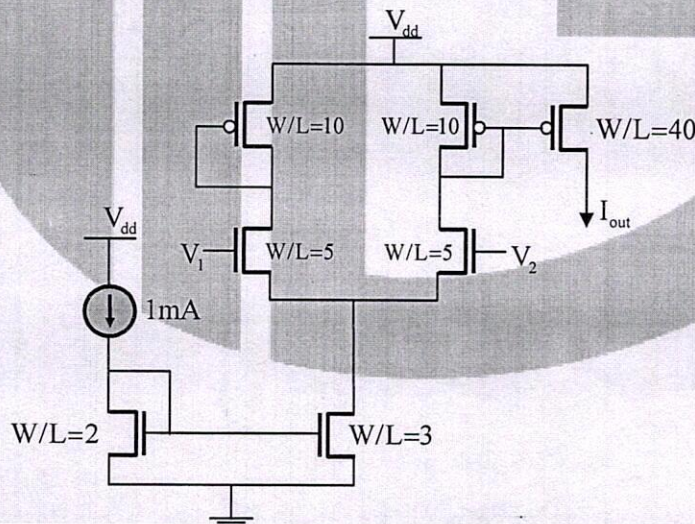

(A) $H(s) = \dfrac{s^2 + 1}{2s^2 + 1}$

(B) $H(s) = \dfrac{s^2 + 1}{s^3 + 2s^2 + s + 1}$

(C) $H(s) = \dfrac{s + 1}{s^2 + s + 1}$

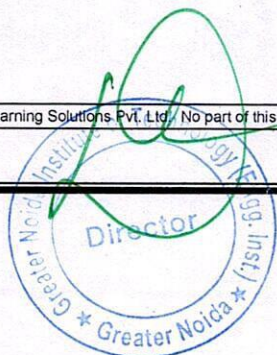(D) $H(s) = \dfrac{s^2 + 1}{s^3 + s^2 + s + 1}$

Answer: **(B)**

- -

55. In the circuit shown, $V_1 = 0$ and $V_2 = V_{dd}$. The other relevant parameters are mentioned in the figure.

Ignoring the effect of channel length modulation and the body effect, the value of I_{out} is _____ mA. (rounded off to one decimal place).

Answer: **(6)**

**Click here to watch video explanation**

Q.39 Consider an elastic straight beam of length $L = 10\pi$ m, with square cross-section of side $a = 5$ mm, and Young's modulus $E = 200$ GPa. This straight beam was bent in such a way that the two ends meet, to form a circle of mean radius R. Assuming that Euler-Bernoulli beam theory is applicable to this bending problem, the maximum tensile bending stress in the bent beam is _____ MPa.
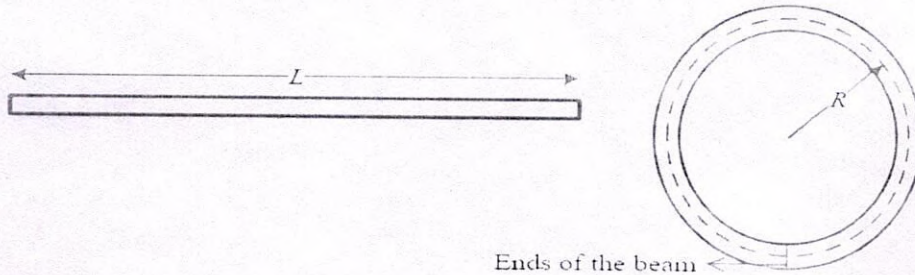
Ends of the beam

Q.40 Consider a prismatic straight beam of length $L = \pi$ m, pinned at the two ends as shown in the figure. The beam has a square cross-section of side $p = 6$ mm. The Young's modulus $E = 200$ GPa, and the coefficient of thermal expansion $\alpha = 3 \times 10^{-6}$ K^{-1}. The minimum temperature rise required to cause Euler buckling of the beam is _____ K.
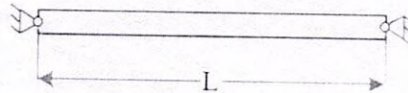
Q.41 In a UTM experiment, a sample of length 100 mm, was loaded in tension until failure. The failure load was 40 kN. The displacement, measured using the cross-head motion, at failure, was 15 mm. The compliance of the UTM is constant and is given by 5×10^{-8} m/N. The strain at failure in the sample is _____ %.

Q.42 At a critical point in a component, the state of stress is given as $\sigma_{xx} = 100$ MPa, $\sigma_{yy} = 220$ MPa, $\sigma_{xy} = \sigma_{yx} = 80$ MPa and all other stress components are zero. The yield strength of the material is 468 MPa. The factor of safety on the basis of maximum shear stress theory is _____ (round off to one decimal place).

Q.43   A uniform thin disk of mass 1 kg and radius 0.1 m is kept on a surface as shown in the figure.
A spring of stiffness $k_1 = 400$ N/m is connected to the disk center A and another spring of
stiffness $k_2 = 100$ N/m is connected at point B just above point A on the circumference of
the disk. Initially, both the springs are unstretched. Assume pure rolling of the disk. For small
disturbance from the equilibrium, the natural frequency of vibration of the system
is _____ rad/s (round off to one decimal place).
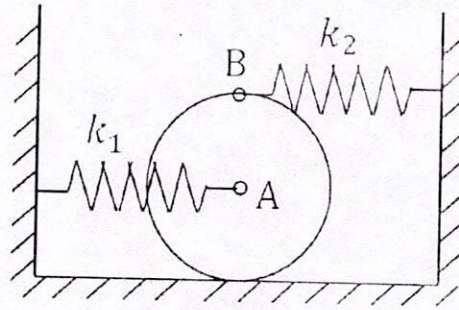
Q.44   A single block brake with a short shoe and torque capacity of 250 N·m is shown. The
cylindrical brake drum rotates anticlockwise at 100 rpm and the coefficient of friction is 0.25.
The value of a, in mm (round off to one decimal place), such that the maximum actuating
force P is 2000 N, is _____
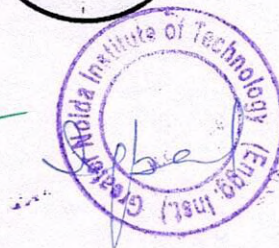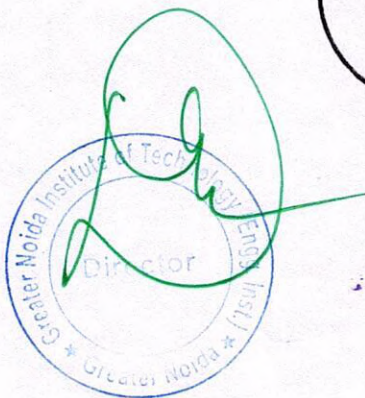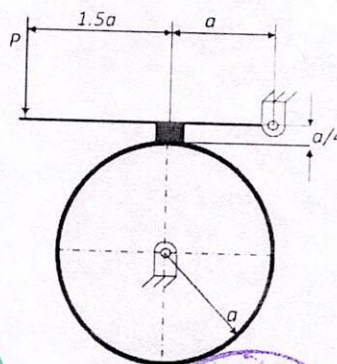
Q.45 Two immiscible, incompressible, viscous fluids having same densities but different viscosities are contained between two infinite horizontal parallel plates, 2 m apart as shown below. The bottom plate is fixed and the upper plate moves to the right with a constant velocity of 3 m/s. With the assumptions of Newtonian fluid, steady, and fully developed laminar flow with zero pressure gradient in all directions, the momentum equations simplify to

$$\frac{d^2 u}{dy^2} = 0.$$

If the dynamic viscosity of the lower fluid, μ_2, is twice that of the upper fluid, μ_1, then the velocity at the interface (round off to two decimal places) is _____ m/s.
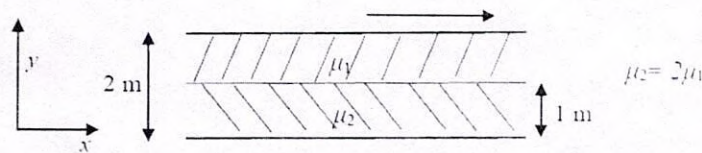

Q.46 A cube of side 100 mm is placed at the bottom of an empty container on one of its faces. The density of the material of the cube is 800 kg/m³. Liquid of density 1000 kg/m³ is now poured into the container. The minimum height to which the liquid needs to be poured into the container for the cube to just lift up is _____ mm.

Q.47　Three slabs are joined together as shown in the figure. There is no thermal contact resistance at the interfaces. The center slab experiences a non-uniform internal heat generation with an average value equal to 10000 Wm^{-3}, while the left and right slabs have no internal heat generation. All slabs have thickness equal to 1 m and thermal conductivity of each slab is equal to 5 $Wm^{-1}K^{-1}$. The two extreme faces are exposed to fluid with heat transfer coefficient 100 $Wm^{-2}K^{-1}$ and bulk temperature 30 °C as shown. The heat transfer in the slabs is assumed to be one dimensional and steady, and all properties are constant. If the left extreme face temperature T_1 is measured to be 100 °C, the right extreme face temperature T_2 is _____ °C.
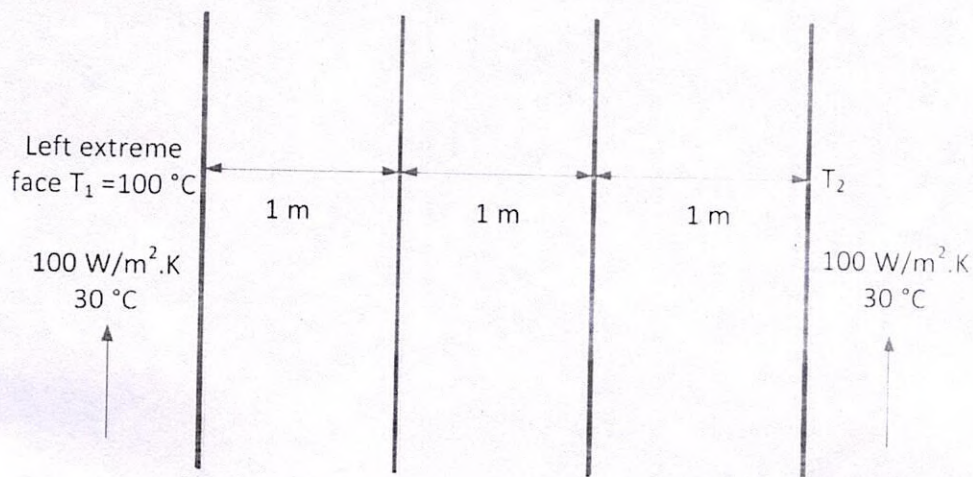

Q.48　If one mole of H_2 gas occupies a rigid container with a capacity of 1000 litres and the temperature is raised from 27 °C to 37 °C, the change in pressure of the contained gas (round off to two decimal places), assuming ideal gas behaviour, is _____ Pa. ($R=8.314$ J/mol·K)
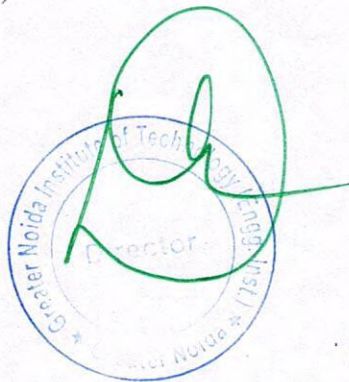
Q.49 A steam power cycle with regeneration as shown below on the T-s diagram employs a single open feedwater heater for efficiency improvement. The fluids mix with each other in an open feedwater heater. The turbine is isentropic and the input (bleed) to the feedwater heater from the turbine is at state 2 as shown in the figure. Process 3-4 occurs in the condenser. The pump work is negligible. The input to the boiler is at state 5. The following information is available from the steam tables:

State	1	2	3	4	5	6
Enthalpy (kJ/kg)	3350	2800	2300	175	700	1000
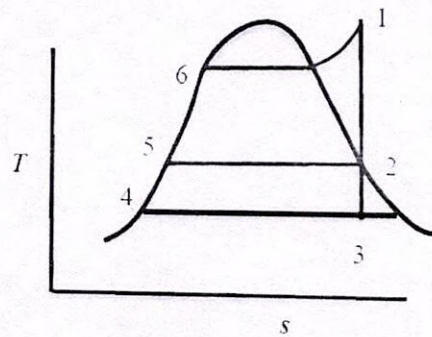
The mass flow rate of steam bled from the turbine as a percentage of the total mass flow rate at the inlet to the turbine at state 1 is _____

Q.50 A gas turbine with air as the working fluid has an isentropic efficiency of 0.70 when operating at a pressure ratio of 3. Now, the pressure ratio of the turbine is increased to 5, while maintaining the same inlet conditions. Assume air as a perfect gas with specific heat ratio $\gamma = 1.4$. If the specific work output remains the same for both the cases, the isentropic efficiency of the turbine at the pressure ratio of 5 is _____ (round off to two decimal places)

Q.51 The value of the following definite integral is _____ (round off to three decimal places)

$$\int_1^e (x \ln x)\, dx$$
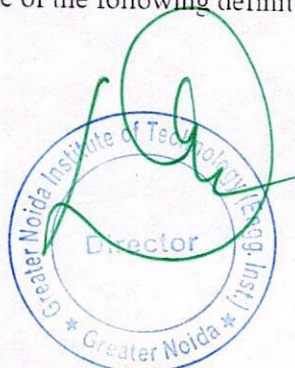
Q.52 In ASA system, the side cutting and end cutting edge angles of a sharp turning tool are 45° and 10°, respectively. The feed during cylindrical turning is 0.1 mm/rev. The center line average surface roughness (in μm, round off to one decimal place) of the generated surface is____

Q.53 Taylor's tool life equation is given by $VT^n = C$, where V is in m/min and T is in min. In a turning operation, two tools X and Y are used. For tool X, $n = 0.3$ and $C = 60$ and for tool Y, $n = 0.6$ and $C = 90$. Both the tools will have the same tool life for the cutting speed (in m/min, round off to one decimal place) of____

Q.54 Five jobs (J1, J2, J3, J4 and J5) need to be processed in a factory. Each job can be assigned to any of the five different machines (M1, M2, M3, M4 and M5). The time durations taken (in minutes) by the machines for each of the jobs, are given in the table. However, each job is assigned to a specific machine in such a way that the total processing time is minimum. The total processing time is _____ minutes.

	M1	M2	M3	M4	M5
J1	40	30	50	50	58
J2	26	38	60	26	38
J3	40	34	28	24	30
J4	28	40	40	32	48
J5	28	32	38	22	44

Q.55 A project consists of six activities. The immediate predecessor of each activity and the estimated duration is also provided in the table below:

Activity	Immediate predecessor	Estimated duration (weeks)
P	-	5
Q	-	1
R	Q	2
S	P, R	5
T	P	
U	S, T	

If all activities other than S take the estimated amount of time, the maximum duration (in weeks) of the activity S without delaying the completion of the project is____

END OF THE QUESTION PAPER

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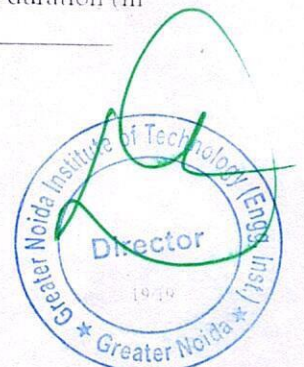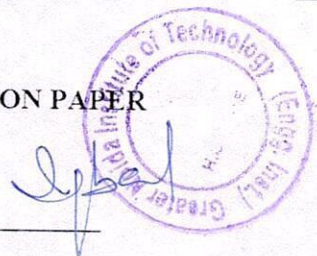
Q.No.	Type	Section	Key	Marks
1	MCQ	GA	C	1
2	MCQ	GA	C	1
3	MCQ	GA	D	1
4	MCQ	GA	C	1
5	MCQ	GA	B	1
6	MCQ	GA	C	2
7	MCQ	GA	D	2
8	MCQ	GA	A	2
9	MCQ	GA	C	2
10	MCQ	GA	D	2
1	MCQ	ME	B	1
2	MCQ	ME	B	1
3	MCQ	ME	C	1
4	MCQ	ME	A	1
5	MCQ	ME	C	1
6	MCQ	ME	B	1
7	MCQ	ME	B	1
8	MCQ	ME	C	1
9	MCQ	ME	A	1
10	MCQ	ME	A	1
11	MCQ	ME	D	1
12	MCQ	ME	A	1
13	MCQ	ME	B	1
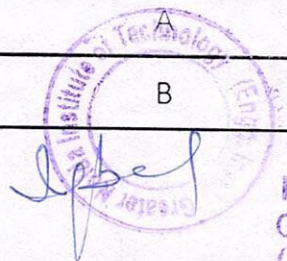
Q.No.	Type	Section	Key	Marks
14	MCQ	ME	D	1
15	MCQ	ME	D	1
16	MCQ	ME	C	1
17	MCQ	ME	B	1
18	NAT	ME	63 to 63	1
19	NAT	ME	10 to 10	1
20	NAT	ME	0.80 to 0.90	1
21	NAT	ME	59.5 to 60.5	1
22	NAT	ME	-0.2 to -0.2	1
23	NAT	ME	3 to 3	1
24	NAT	ME	0.64 to 0.68	1
25	NAT	ME	210 to 210	1
26	MCQ	ME	C	2
27	MCQ	ME	A	2
28	MCQ	ME	B	2
29	MCQ	ME	C	2
30	MCQ	ME	D	2
31	MCQ	ME	B	2
32	MCQ	ME	C	2
33	MCQ	ME	A	2
34	MCQ	ME	A	2
35	MCQ	ME	A	2
36	MCQ	ME	B	2
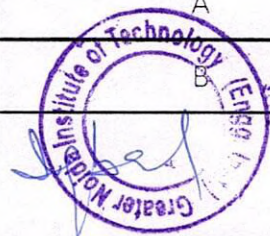
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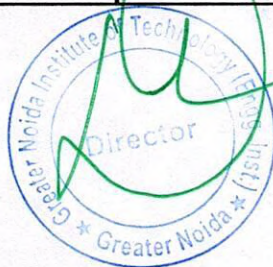
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| Q.No.	Type	Section	Key	Marks
37	MCQ	ME	D	2
38	NAT	ME	4.98 to 5.02	2
39	NAT	ME	99 to 101	2
40	NAT	ME	1 to 1	2
41	NAT	ME	12 to 14	2
42	NAT	ME	1.7 to 1.9	2
43	NAT	ME	23.0 to 24.0	2
44	NAT	ME	212.0 to 213.0	2
45	NAT	ME	0.98 to 1.02	2
46	NAT	ME	80 to 80	2
47	NAT	ME	60 to 60	2
48	NAT	ME	82.14 to 84.14	2
49	NAT	ME	19 to 21	2
50	NAT	ME	0.50 to 0.52	2
51	NAT	ME	2.090 to 2.104	2
52	NAT	ME	3.5 to 3.9	2
53	NAT	ME	38.0 to 42.0	2
54	NAT	ME	146 to 146	2
55	NAT	ME	6 to 6	2

Date: 08/07/2019

Electronics and Communication Engineering (Code-ECE)
<u>Circular</u>

This is to inform all students that GATE classes are being conducted by the **Electronics and Communication Engineering (Code-ECE)** according to the standard syllabus of GATE as per time table on working Saturday (Syllabus under current semester and previous semesters) **Electronics and Communication Engineering (Code-ECE)** students are hereby informed that In-House GATE coaching will start from 13/07/2019. Kindly register your name to the departmental coordinator Mr. Vivek Gupta.

GATE scores are being used by several Indian public sector undertakings for recruiting graduate engineersfor entry-level positions. It is one of the most important competitive examinations in India.
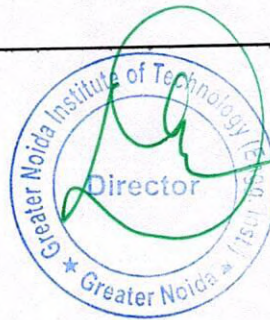
Note: Time-Table is displayed on the notice board.

Dr. Shelly Garg
HoD, ECE Department
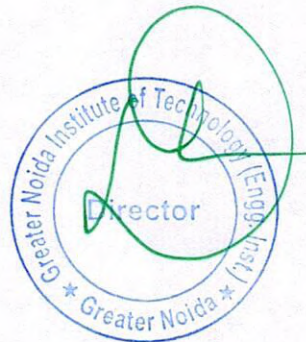
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Electronics and Communication Engineering (Code-ECE)

GATE Classes (Module)

Section -1	Engineering Mathematics (MATH)	15 Hours
Section -2	Networks, Signals, and Systems (NAS)	13 Hours
Section -3	Electronics Devices (ED)	13 Hours
Section -4	Analog Circuits (AC)	13 Hours
Section -5	Digital Circuits (DC)	13 Hours
Section -6	Control Systems (CS)	13 Hours
Section -7	Communication (COMM)	13 Hours
Section -8	Electromagnetics (EM)	13 Hours
Section -9	General Aptitude (GA)	15 Hours
Total		121 hours

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Section 1: Engineering Mathematics

Linear Algebra: Vector space, basis, linear dependence and independence, matrix algebra, eigen values and eigen vectors, rank, solution of linear equations – existence and uniqueness. Calculus: Mean value theorems, theorems of integral calculus, evaluation of definite and improper integrals, partial derivatives, maxima and minima, multiple integrals, line, surface and volume integrals, Taylor series. Differential Equations: First order equations (linear and nonlinear), higher order linear differential equations, Cauchy's and Euler's equations, methods of solution using variation of parameters, complementary function and particular integral, partial differential equations, variable separable method, initial and boundary value problems. Vector Analysis: Vectors in plane and space, vector operations, gradient, divergence and curl, Gauss's, Green's and Stoke's theorems. Complex Analysis: Analytic functions, Cauchy's integral theorem, Cauchy's integral formula; Taylor's and Laurent's series, residue theorem. Numerical Methods: Solution of nonlinear equations, single and multi-step methods for differential equations, convergence criteria. Probability and Statistics: Mean, median, mode and standard deviation; combinatorial probability, probability distribution functions – binomial, Poisson, exponential and normal; Joint and conditional probability; Correlation and regression analysis.
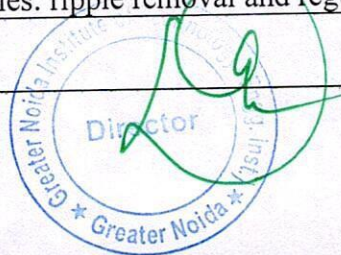
Section 2: Networks, Signals and Systems

Network solution methods: nodal and mesh analysis; Network theorems: superposition, Thevenin and Norton's, maximum power transfer; Wye‐Delta transformation; Steady state sinusoidal analysis using phasors; Time domain analysis of simple linear circuits; Solution of network equations using Laplace transform; Frequency domain analysis of RLC circuits; Linear 2‐port network parameters: driving point and transfer functions; State equations for networks. Continuous-time signals: Fourier series and Fourier transform representations, sampling theorem and applications; Discrete-time signals: discrete-time Fourier transform (DTFT), DFT, FFT, Z-transform, interpolation of discrete-time signals; LTI systems: definition and properties, causality, stability, impulse response, convolution, poles and zeros, parallel and cascade structure, frequency response, group delay, phase delay, digital filter design techniques.

Section 3: Electronic Devices

Energy bands in intrinsic and extrinsic silicon; Carrier transport: diffusion current, drift current, mobility and resistivity; Generation and recombination of carriers; Poisson and continuity equations; P-N junction, Zener diode, BJT, MOS capacitor, MOSFET, LED, photo diode and solar cell; Integrated circuit fabrication process: oxidation, diffusion, ion implantation, photolithography and twin-tub CMOS process.

Section 4: Analog Circuits

Small signal equivalent circuits of diodes, BJTs and MOSFETs; Simple diode circuits: clipping, clamping and rectifiers; Single-stage BJT and MOSFET amplifiers: biasing, bias stability, mid-frequency small signal analysis and frequency response; BJT and MOSFET amplifiers: multi-stage, differential, feedback, power and operational; Simple op-amp circuits; Active filters; Sinusoidal oscillators: criterion for oscillation, single-transistor and opamp configurations; Function generators, wave-shaping circuits and 555 timers; Voltage reference circuits; Power supplies: ripple removal and regulation.

Section 5: Digital Circuits

Number systems; Combinatorial circuits: Boolean algebra, minimization of functions using Boolean identities and Karnaugh map, logic gates and their static CMOS implementations, arithmetic circuits, code converters, multiplexers, decoders and PLAs; Sequential circuits: latches and flip flops, counters, shift registers and finite state machines; Data converters: sample and hold circuits, ADCs and DACs; Semiconductor memories: ROM, SRAM, DRAM; 8-bit microprocessor (8085): architecture, programming, memory and I/O interfacing.

Section 6: Control Systems

Basic control system components; Feedback principle; Transfer function; Block diagram representation; Signal flow graph; Transient and steady-state analysis of LTI systems; Frequency response; Routh-Hurwitz and Nyquist stability criteria; Bode and root-locus plots; Lag, lead and lag-lead compensation; State variable model and solution of state equation of LTI systems.

Section 7: Communications

Random processes: autocorrelation and power spectral density, properties of white noise, filtering of random signals through LTI systems; Analog communications: amplitude modulation and demodulation, angle modulation and demodulation, spectra of AM and FM, superheterodyne receivers, circuits for analog communications; Information theory: entropy, mutual information and channel capacity theorem; Digital communications: PCM, DPCM, digital modulation schemes, amplitude, phase and frequency shift keying (ASK, PSK, FSK), QAM, MAP and ML decoding, matched filter receiver, calculation of bandwidth, SNR and BER for digital modulation; Fundamentals of error correction, Hamming codes; Timing and frequency synchronization, inter-symbol interference and its mitigation; Basics of TDMA, FDMA and CDMA.

Section 8: Electromagnetics

Electrostatics; Maxwell's equations: differential and integral forms and their interpretation, boundary conditions, wave equation, Poynting vector; Plane waves and properties: reflection and refraction, polarization, phase and group velocity, propagation through various media, skin depth; Transmission lines: equations, characteristic impedance, impedance matching, impedance transformation, S-parameters, Smith chart; Waveguides: modes, boundary conditions, cut-off frequencies, dispersion relations; Antennas: antenna types, radiation pattern, gain and directivity, return loss, antenna arrays; Basics of radar; Light propagation in optical fibers.

Section 2: Networks, Signals and Systems

Network solution methods: nodal and mesh analysis; Network theorems: superposition, Thevenin and Norton's, maximum power transfer; Wye-Delta transformation; Steady state sinusoidal analysis using phasors; Time domain analysis of simple linear circuits; Solution of network equations using Laplace transform; Frequency domain analysis of RLC circuits; Linear 2-port network parameters: driving point and transfer functions; State equations for networks. Continuous-time signals: Fourier series and Fourier transform representations, sampling theorem and applications; Discrete-time signals: discrete-time Fourier transform (DTFT), DFT, FFT, Z-transform, interpolation of discrete-timesignals;LTIsystems:definitionandproperties,causality,stability,impulse response, convolution, poles and zeros, parallel and cascade structure, frequency response, group delay, phase delay, digital filter designtechniques.

Section 3: Electronic Devices

Energy bands in intrinsic and extrinsic silicon; Carrier transport: diffusion current, drift current, mobility and resistivity; Generation and recombination of carriers; Poisson and continuity equations; P-N junction, Zener diode, BJT, MOS capacitor, MOSFET, LED, photo diode and solar cell; Integrated circuit fabrication process: oxidation, diffusion, ion implantation, photolithography and twin-tub CMOS process.

Section 4: Analog Circuits

Small signal equivalent circuits of diodes, BJTs and MOSFETs; Simple diode circuits: clipping, clamping and rectifiers; Single-stage BJT and MOSFET amplifiers: biasing, bias stability, mid-frequency small signal analysis and frequency response; BJT and MOSFET amplifiers: multi-stage, differential, feedback, power and operational; Simple op-amp circuits; Active filters; Sinusoidal oscillators: criterion for oscillation, single-transistor and opamp configurations; Function generators, wave-shaping circuits and 555 timers; Voltage reference circuits; Power supplies: ripple removal andregulation.

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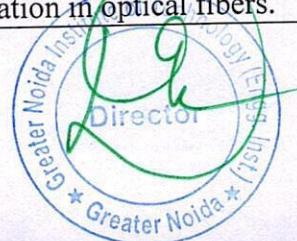## Section 6: Control Systems

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Section 8: Electromagnetics

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**Electronics and Communication Engineering (Code-ECE)**
Session (2019-20)
GATE CLASSES-TimeTable

Room No:

w.e.f: 13/07/2019

S.NO	DATE/TIME	9:15-10:55	10:55-12:35	12:35-1:35	1:35-3:15	3:15-4:55
1	13 July 2019	NAS	ED		DC	MATH
2	20 July2019	AC	DC		CS	APT
3	27 July 2019	NAS	CS		AC	MATH
4	3 Aug 2019	CS	ED		COMM	APT
5	10 Aug 2019	NAS	COMM		AC	MATH
6	17 Aug 2019	DC	COMM		CS	APT
7	31 Aug 2019	NAS	ED		CS	MATH
8	7 Sep2019	DC	NAS		AC	APT
9	14 Sep 2019	CS	ED	BREAK	NAS	MATH
10	21 Sep 2019	NAS	DC		COMM	APT
11	28 Sep 2019	CS	NAS		AC	MATH
12	5 Oct 2019	DC	ED		COMM	APT
13	12Oct 2019	NAS	CS		AC	MATH
14	2 Nov 2019	CS	ED		DC	APT
15	16Nov 2019	NAS	ED		DC	MATH
16	23 Nov 2019	ED	AC		COMM	APT
17	30 Nov 2019	COMM	DC		AC	MATH
18	7 Dec2019	PREVIOUS PAPER DISCUSSION			NAS	APT
19	14 Dec2019	PREVIOUS PAPER DISCUSSION			ED	MATH
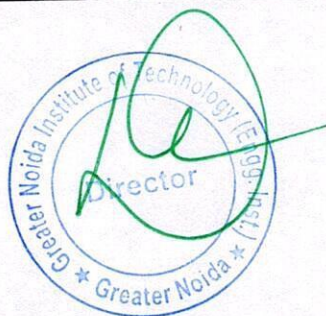
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Subject allotted to faculty members

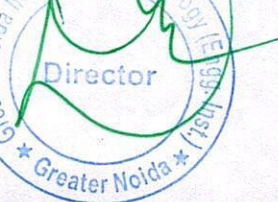| Sr. No	Subjects	Faculty
1	Engineering Mathematics (MATH)	Dr. Nitash Kaushik
2	Networks, Signals, and Systems (NAS)	Mr. Satender Sharma
3	Electronics Devices (ED)	Mr. Nitin Punyani
4	Analog Circuits (AC)	Mr. Rahul Dev
5	Digital Circuits (DC)	Dr. Shelly Garg
6	Control Systems (CS)	Mr. Vivek Gupta
7	Communication (COMM)	Dr. Rakhi Bhardwaj
8	Electromagnetic (EM)	Mr. Abhishek Kaushik
9	General Aptitude (APT)	

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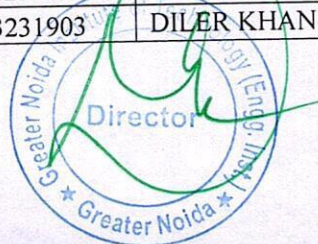Greater Noida Institute of Technology
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GREATER NOIDA INSTITUTE OF TECHNOLOGY (Engg. Institute)

List of students

S.No.	I.D. No.	UPTU Roll No	Student Name	BATCH
1	150838	1513231010	ABHISHEK PANDEY	2019-20
2	151260	1513231014	ADITYA CHANDRA	2019-20
3	150364	1513231017	AJIT ALANKAR	2019-20
4	150289	1513231025	AMAR NATH JHA	2019-20
5	150981	1513231034	ANJALI HONEY	2019-20
6	150302	1513231044	ANURAG ANAND	2019-20
7	150714	1513231056	DEEPA VERMA	2019-20
8	150151	1513231060	DEVESH KUMAR JHA	2019-20
9	150961	1513231063	DHARMENDRA YADAV	2019-20
10	150654	1513231080	KAMLESH KUMAR TIWARI	2019-20
11	151276	1513231091	MAHMOOD ALI	2019-20
12	151339	1513231101	MILAN KUMAR SINGH	2019-20
13	150047	1513231106	NANDAN	2019-20
14	150563	1513231114	NITIN RAJ	2019-20
15	150991	1513231129	PRAVEEN SINGH	2019-20
16	150138	1513231167	SHREY SINGH	2019-20
17	150117	1513231170	SHUBHAM MISHRA	2019-20
18	150776	1513231173	SHWETANK	2019-20
19	150548	1513231201	VIVEK MAJHWAR	2019-20
20	160098	1613231001	ABHISHEK ANAND	2019-20
21	160939	1613231002	ABHISHEK KUMAR	2019-20
22	160215	1613231003	ABHISHEK KUMAR RAY	2019-20
23	160030	1613231004	ABHISHEK KUMAR SINGH	2019-20
24	160229	1613231005	ABHISHEK YADAV	2019-20
25	160177	1613231006	ADITYA KUMAR VERMA	2019-20
26	160591	1613231007	AKHIL SHARMA	2019-20
27	160810	1613231008	AKRIT PRASAD	2019-20
28	160501	1613231009	AKSHANSH KULASARI	2019-20
29	160533	1613231010	ALOK DWIVEDI	2019-20
30	160251	1613231011	AMAN KUMAR PANDEY	2019-20
31	160182	1613231012	AMAN KUMAR SHARMA	2019-20
32	160388	1613231013	AMEY RAJ JAISWAL	2019-20
33	160124	1613231014	AMIT KUMAR	2019-20
34	160401	1613231015	AMIT KUMAR SHUKLA	2019-20
35	160792	1613231016	ANJALI PATHAK	2019-20
36	160238	1613231017	ANJULA	2019-20
37	160250	1613231019	ANKIT KUMAR PANDEY	2019-20
38	160190	1613231020	ANKIT KUMAR SRIVASTAVA	2019-20
39	160144	1613231021	ANMOL UPADHYAY	2019-20
40	160467	1613231023	APRAJITA	2019-20
41	160278	1613231024	ARJU RAJ	2019-20
42	160998	1613231025	ASHISH CHAUHAN	2019-20
43	160231	1613231026	ASHISH KOUNDAL	2019-20
44	160290	1613231027	ASHWINI KUMAR	2019-20
45	160698	1613231028	AVINASH KUMAR	2019-20

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46	160545	1613231029	AZEEM NAZIM	2019-20
47	160356	1613231030	BIJENDER YADAV	2019-20
48	160801	1613231031	BINITH ROY	2019-20
49	160152	1613231033	DEEPAK SINGH	2019-20
50	160201	1613231034	DEEPAK KUMAR SINGH	2019-20
51	160687	1613231035	DEVESH MAURYA	2019-20
52	160384	1613231036	DIPENDRA KUMAR	2019-20
53	160347	1613231037	DIVYANSHA VATS	2019-20
54	160980	1613231038	FARHEEN SOHAIL	2019-20
55	160880	1613231040	GAURAV KUMAR	2019-20
56	160802	1613231042	HAMZA ANSARI	2019-20
57	160618	1613231043	HARIOM KUMAR	2019-20
58	160354	1613231044	JATIN CHOUDHARY	2019-20
59	160861	1613231045	JAYTI	2019-20
60	160099	1613231046	KARTIKEY ANAND	2019-20
61	160006	1613231048	KM ZUBI	2019-20
62	160641	1613231049	KRITI SINGH	2019-20
63	160212	1613231050	KUNDAN YADAV	2019-20
64	160327	1613231051	MANASH	2019-20
65	160160	1613231052	MANISH KUMAR	2019-20
66	160563	1613231053	MANISH YADAV	2019-20
67	160308	1613231054	MANJEET YADAV	2019-20
68	160443	1613231055	MD ALTAF RJA	2019-20
69	160436	1613231056	MD FAIZUL ISLAM	2019-20
70	160678	1613231058	MD QUTBUDDIN	2019-20
71	160800	1613231059	MOHD AMZAD KHAN	2019-20
72	160108	1613231060	MUNISH SINGH BISHT	2019-20
73	160898	1613231061	NEHA KUMARI	2019-20
74	160050	1613231062	NISHANT KUMAR	2019-20
75	160511	1613231063	NITISH KUMAR GIRI	2019-20
76	160400	1613231064	NITLESH PATEL	2019-20
77	160171	1613231065	PANKAJ KUMAR PANDEY	2019-20
78	160109	1613231066	PAPPU KUMAR	2019-20
79	160638	1613231067	PIYUSH SINGH	2019-20
80	160246	1613231068	PRAKASH KUMAR	2019-20
81	160132	1613231070	PRANJAL ASTHANA	2019-20
82	160508	1613231071	PRASHANT RAJ	2019-20
83	160534	1613231072	PRATYNCHA PRACHI	2019-20
84	160292	1613231074	PREM KUMAR	2019-20
85	160520	1613231075	PRITESH KUMAR	2019-20
86	160766	1613231076	PRIYA RANJAN KUMAR	2019-20
87	160592	1613231077	RAHUL RAJ	2019-20
88	160572	1613231078	RAHUL KUMAR RANJAN	2019-20
89	160824	1613231079	RAHUL SHARMA	2019-20
90	160447	1613231080	RAJESH KUMAR	2019-20
91	160476	1613231081	RAJU	2019-20
92	160151	1613231082	RAM GOPAL	2019-20
93	160172	1613231083	RAVI RAUSHAN	2019-20

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GREATER NOIDA INSTITUTE OF TECHNOLOGY (Engg. Institute)

94	160745	1613231084	RINAL AKSH	2019-20
95	160524	1613231085	RITESH KUMAR	2019-20
96	160668	1613231086	RIYA CHAUDHARY	2019-20
97	160609	1613231087	RIYA SINHA	2019-20
98	160100	1613231088	ROHIT KUMAR	2019-20
99	160268	1613231089	ROHIT KUMAR	2019-20
100	160269	1613231090	ROHIT KUMAR GUPTA	2019-20
101	160158	1613231092	SAKSHI RATURI	2019-20
102	160191	1613231093	SAMIR KUMAR	2019-20
103	160131	1613231094	SANDEEP KUMAR	2019-20
104	160506	1613231095	SANJANA KANOJIA	2019-20
105	160767	1613231097	SATISH KUMAR JHA	2019-20
106	160192	1613231098	SAURABH YADAV	2019-20
107	161011	1613231099	SAURAV JHA	2019-20
108	160134	1613231100	SAURAV KARMAKAR	2019-20
109	160207	1613231101	SHAHNAWAZ ALAM	2019-20
110	160864	1613231102	SHAHRUKH ANSARI	2019-20
111	160173	1613231104	SHANI KUMAR MAURYA	2019-20
112	160828	1613231106	SHIVANI GARG	2019-20
113	160926	1613231107	SHOBHIT VERMA	2019-20
114	160306	1613231108	SHRADHA SINGH	2019-20
115	160518	1613231109	SHRAWAN KUMAR	2019-20
116	160033	1613231110	SHREYASHI SEKHAR	2019-20
117	160967	1613231111	SHUBHAM	2019-20
118	160732	1613231112	SHUBHAM RAJ	2019-20
119	160136	1613231113	SHUBHAM SINGH	2019-20
120	160868	1613231115	SWETA RANI	2019-20
121	160780	1613231116	SMIT KANJARIYA	2019-20
122	160130	1613231117	SONI KUMARI	2019-20
123	160681	1613231118	SONI KUMARI	2019-20
124	160526	1613231119	SOURABH CHAKRABARTY	2019-20
125	160139	1613231120	SUDHANSHU BHARDWAJ	2019-20
126	160936	1613231122	SUSHANT TIWARI	2019-20
127	160832	1613231123	SUSHMA RANI	2019-20
128	160680	1613231124	SWATI KUMARI	2019-20
129	160879	1613231125	TANYA ROY	2019-20
130	160635	1613231126	TINKU	2019-20
131	160060	1613231127	UJJWAL KUMAR SINGH	2019-20
132	160272	1613231128	VIKAS SHUKLA	2019-20
133	160600	1613231129	VIKASH YADAV	2019-20
134	160649	1613231130	VIMAL KUMAR PAL	2019-20
135	160256	1613231131	VIRENDRA SINGH	2019-20
136	160220	1613231132	VIVEK SHARMA	2019-20
137	160352	1613231905	VINEET KUMAR	2019-20
138	160923	1613240064	JITENDRA YADAV	2019-20
139	170596	1713231901	AVANTIKA SINGH	2019-20
140	170513	1713231902	BRIJESH KUMAR	2019-20
141	170614	1713231903	DILER KHAN	2019-20

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142	170197	1713231904	PRIYA BHARTI	2019-20

S.No.	Roll No	ID No	Student Name	Batch
1	1513231106	150047	NANDAN	2020-21
2	1613231004	160030	ABHISHEK KUMAR SINGH	2020-21
3	1613231127	160060	UJJWAL KUMAR SINGH	2020-21
4	1713231002	170282	ADARSH KUMAR YADAV	2020-21
5	1713231003	170345	ADARSH KUMAR	2020-21
6	1713231004	170204	AMAN SINGH	2020-21
7	1713231005	170475	AMARJEET SHARMA	2020-21
8	1713231006	170650	ANADI SRIVASTAVA	2020-21
9	1713231007	170193	ANIKET SHARMA	2020-21
10	1713231008	170321	ANKIT BHARTI	2020-21
11	1713231011	170673	ASHISH KUMAR	2020-21
12	1713231012	170329	ASHISH KUMAR SINGH	2020-21
13	1713231013	170554	ASHISH RANJAN	2020-21
14	1713231014	170422	ATUL KUMAR	2020-21
15	1713231015	170689	AVNISH KUMAR	2020-21
16	1713231016	170408	BABLOO KUMAR	2020-21
17	1713231017	170556	CHANDAN KAR	2020-21
18	1713231018	170206	DHARMENDRA SINGH	2020-21
19	1713231019	170135	GAUTAM KUMAR JHA	2020-21
20	1713231020	170571	HARSH DEOL	2020-21
21	1713231022	170576	HARSHIT RAJ	2020-21
22	1713231024	170692	JEEVAN JAISWAL KALWAR	2020-21
23	1713231025	170203	KANHAYA DUBEY	2020-21
24	1713231026	170463	MANISH GAUTAM	2020-21
25	1713231027	170059	MANTOO	2020-21
26	1713231028	170184	MD. YASIR	2020-21
27	1713231031	170072	MOHD. MOZAMMIL NOOR	2020-21
28	1713231032	170256	NANDITA RAI	2020-21
29	1713231033	170320	NITIN SINGH	2020-21
30	1713231035	170392	PRAGATI CHAUHAN	2020-21
31	1713231036	170553	PRAKASH KUMAR	2020-21
32	1713231037	170745	PRAMESH SINGH	2020-21
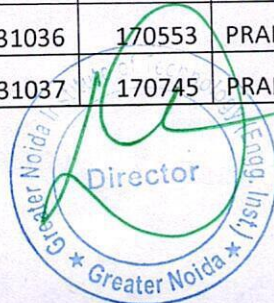
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33	1713231038	170545	RADHEYSHYAM THAKUR	2020-21
34	1713231040	170580	RAJA KUMAR	2020-21
35	1713231041	170633	RAJA KUMAR	2020-21
36	1713231043	170126	RISHABH SINGH	2020-21
37	1713231044	170070	RITURAJ SINGH	2020-21
38	1713231046	170747	SAUMYA AGRAHARI	2020-21
39	1713231047	170385	SHAHANE ALAM	2020-21
40	1713231048	170327	SHASHANK SHEKHAR	2020-21
41	1713231049	170313	SHIKHA	2020-21
42	1713231050	170134	SHIVAM PAUL	2020-21
43	1713231051	170286	SHUBHAM KUMAR	2020-21
44	1713231052	170362	SOMYA TYAGI	2020-21
45	1713231053	170294	SUDHANSHU PANDEY	2020-21
46	1713231054	170250	SUDIP KUMAR SHAW	2020-21
47	1713231055	170376	SURAJ KUMAR	2020-21
48	1713231056	170138	SURAJ KUMAR MISHRA	2020-21
49	1713231057	170145	UTKARSH SRIVASTAVA	2020-21
50	1713231058	170338	VARSHIT BHATIA	2020-21
51	1713231059	170691	VIDYANAND SHARMA	2020-21
52	1713231060	170268	VIKAS SINGH	2020-21
53	1713231061	170342	VINAY PATHAK	2020-21
54	1713231062	170280	VISHAL KUMAR	2020-21
55	1713231063	170124	VISHAL DOGRA	2020-21
56	1713231064	170180	VISHAL KUMAR PANDEY	2020-21
57	1713231065	170283	VIVEK KUMAR YADAV	2020-21
58	1813231901	180315	ABHISHEK TYAGI	2020-21
59	1813231902	180136	DAMINI BACHHAL	2020-21
60	1813231903	180584	PUSHPAK RANJAN	2020-21
61	1813231905	180512	SUMIT YADAV	2020-21
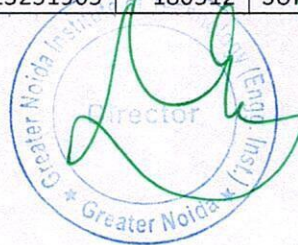
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GENERAL APTITUDE

Q. No. 1 - 5 Carry One Mark Each

1. The following figure shows the data of students enrolled in 5 years (2014 to 2018) for two schools P and Q. During this period, the ratio of the average number of the students enrolled in school P to the average of the difference of the number of students enrolled in schools P and Q is_____.
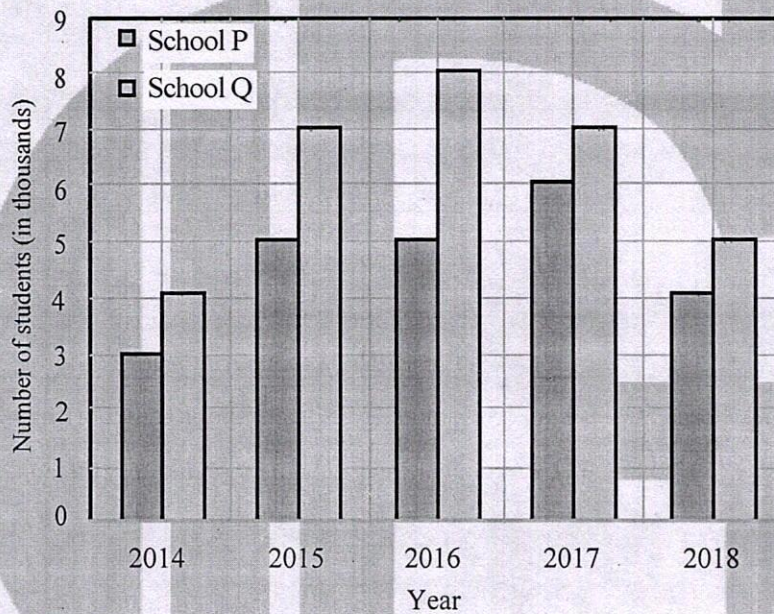
(A)   23: 8   (B)   31: 23   (C)   23:31   (D)   8:23

Answer: **(A)**

----

2. It is quarter past three in your watch. The angle between the hour hand and the minute hand is _____.

(A) 0°   (B) 15°   (C) 22.5°   (D) 7.5°

Answer: **(D)**
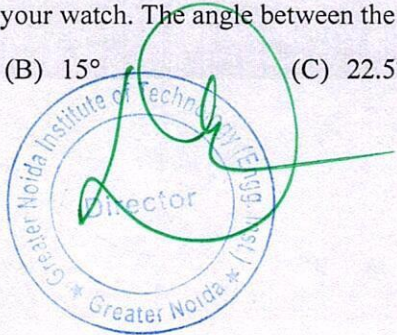
1

3. The global financial crisis in 2008 is considered to be the most serious world-wide financial crisis, which started with the sub-prime lending crisis in USA in 2007. The subprime lending crisis led to the banking crisis in 2008 with the collapse of Lehman Brothers in 2008. The sub-prime lending refers to the provision of loans to those borrowers who may have difficulties in repaying loans, and it arises because of excess liquidity following the East Asian crisis.

Which one of the following sequences shows the correct precedence as per the given passage?

(A) East Asian crisis →subprime lending crisis →banking crisis →global financial crisis.

(B) Subprime lending crisis →global financial crisis →banking crisis →East Asian crisis.

(C) Global financial crisis →East Asian crisis →banking crisis →subprime lending crisis.

(D) Banking crisis →subprime lending crisis →global financial crisis →East Asian crisis.

Answer: (A)

---

4. The Canadian constitution requires that equal importance be given to English and French.

Last year, Air Canada lost a lawsuit, and had to pay a six-figure fine to a French-speaking couple after they filed complaints about formal in-flight announcements in English lasting 15 seconds, as opposed to informal 5 second messages in French.

The French-speaking couple were upset at

(A) the English announcements being clearer than the French ones.

(B) the English announcements being longer than the French ones.

(C) equal importance being given to English and French.

(D) the in-flight announcements being made in English

Answer: (A)

---

5. A superadditive function $f(\cdot)$ satisfies the following property

$$f(x_1 + x_2) \geq f(x_1) + f(x_2)$$

Which of the following functions is a superadditive function for x>1?

(A) e^x (B) e^{-x} (C) $\sqrt{x}$ (D) $1/x$

Answer: (A)

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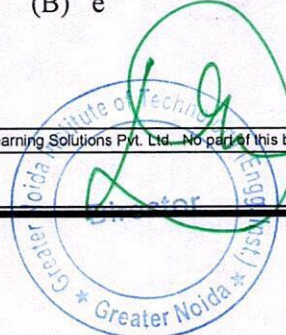
Q. No. 6 - 10 Carry Two Marks Each

6. Select the word that fits the analogy:

   Explicit: Implicit:: Express:_____

   (A) Compress   (B) Suppress   (C) Impress   (D) Repress

   Answer: **(D)**

---

7. He was not only accused of theft _____ of conspiracy.

   (A) but also   (B) rather   (C) but even   (D) rather than

   Answer: **(A)**

---

8. a, b, c are real numbers. The quadratic equation $ax^2 - bx + c = 0$ has equal roots, which is β, then

   (A) $\beta = \dfrac{b}{a}$ (B) $b^2 \neq 4ac$ (C) $\beta^3 = \dfrac{bc}{(2a^2)}$ (D) $\beta^2 = ac$

   Answer: **(D)**

---

9. A circle with centre O is shown in the figure. A rectangle PQRS of maximum possible area is inscribed in the circle. If the radius of the circle is a, then the area of the shaded portion is_____.
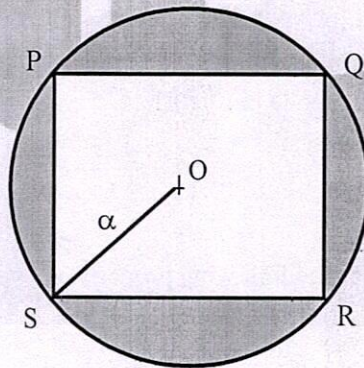
   (A) $\pi a^2 - 2a^2$ (B) $\pi a^2 - \sqrt{2}a^2$ (C) $\pi a^2 - 3a^2$ (D) $\pi a^2 - a^2$

   Answer: **(A)**

---

10. The untimely loss of life is a cause of serious global concern as thousands of people get killed_____ accidents every year while many other die_____ diseases like cardio vascular disease, cancer, etc.

(A) from, from   (B) during, from   (C) from, of   (D) in, of

Answer: **(D)**

ELECTRONICS AND COMMUNICATION ENGINEERING

Q. No. 1 – 25 Carry One Mark Each

1. The components in the circuit shown below are ideal. If the op-amp is in positive feedback and the input voltage V_i is a sine wave of amplitude 1V, the output voltage V_o is
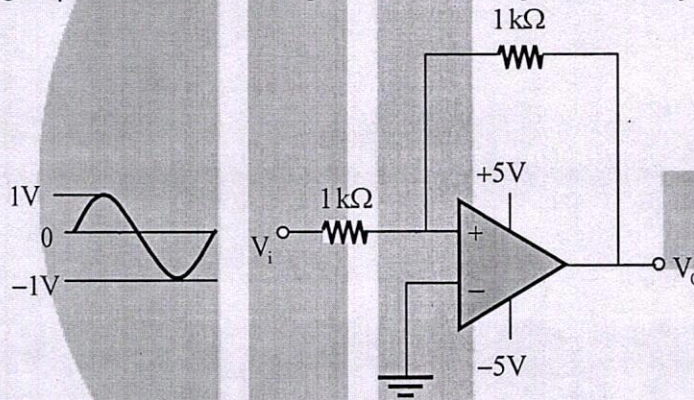
(A) a non-inverted sine wave of 2V amplitude.

(B) a constant of either +5V or -5V.

(C) an inverted sine wave of 1 V amplitude.

(D) a square wave of 5 V amplitude

Answer: **(B)**
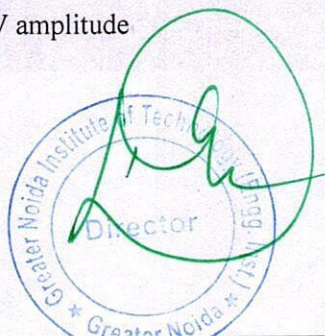
2. The partial derivative of the function

$$f(x,y,z) = e^{1-x\cos y} + xze^{-1/(1+y^2)}$$

With respect to x at the point $(1, 0, e)$ is

(A) $\dfrac{1}{e}$ (B) 1   (C) -1 (D) 0

Answer: **(D)**

---

3. The general solution of $\dfrac{d^2y}{dx^2} - 6\dfrac{dy}{dx} + 9y = 0$ is

(A) $y = C_1e^{3x} + C_2e^{-3x}$ (B) $y = (C_1 + C_2x)e^{3x}$

(C) $y = (C_1 + C_2x)e^{-3x}$ (D) $y = C_1e^{3x}$

Answer: **(B)**

---

4. The loop transfer function of a negative feedback system is

$$G(s)H(s) = \frac{K(s+11)}{s(s+2)(s+8)}$$

The value of K, for which the system is marginally stable, is _____.

Answer: **(160)**

---

5. For a vector field $\vec{A}$, which one of the following is FALSE?

(A) $\nabla \times \vec{A}$ is another vector field.

(B) $\vec{A}$ is irrotational if $\nabla^2\vec{A} = 0$.

(C) $\nabla \times (\nabla \times \vec{A}) = \nabla(\nabla.\vec{A}) - \nabla^2\vec{A}$

(D) $\vec{A}$ is solenoidal if $\nabla.\vec{A} = 0$.

Answer: **(B)**
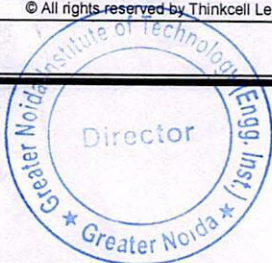
6. In the circuit shown below, all the components are ideal, and the input voltage is sinusoidal. The magnitude of the steady-state output V_0 **(rounded off to two decimal places)** is _____ V.
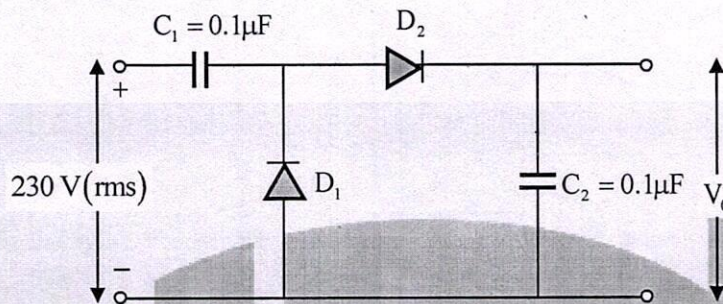
Answer: **(650.538)**

7. In the circuit shown below, all the components are ideal. If V_i is $+2V$, the current I_0 sourced by the op-amp is _____ mA.
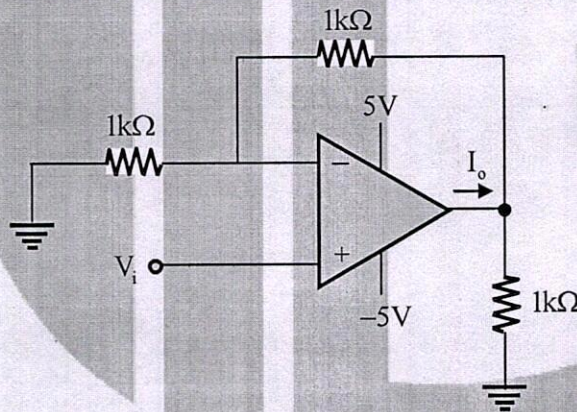
Answer: **(6)**

8. A binary random variable X takes value +2 or -2. The probability $P(X=+2)=\alpha$. The value of α **(rounded off to one decimal place)**, for which the entropy of X is maximum, is _____.

Answer: **(0.5)**
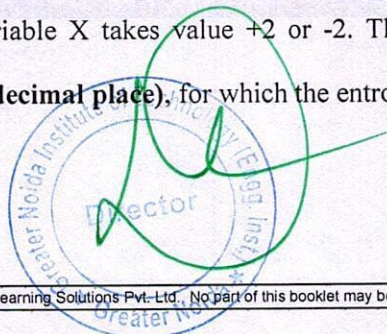
9. The figure below shows a multiplexer where S_1 and S_0 are the select lines, I_0 to I_3 are the input data lines, EN is the enable line, and F (P, Q, R) is the output. F is
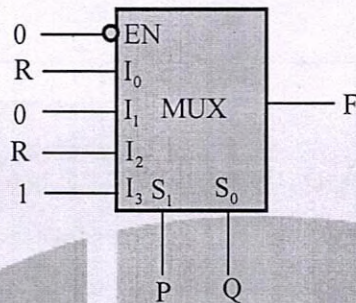
(A) $P\overline{Q}R + \overline{P}Q$.

(B) $P + Q\overline{R}$

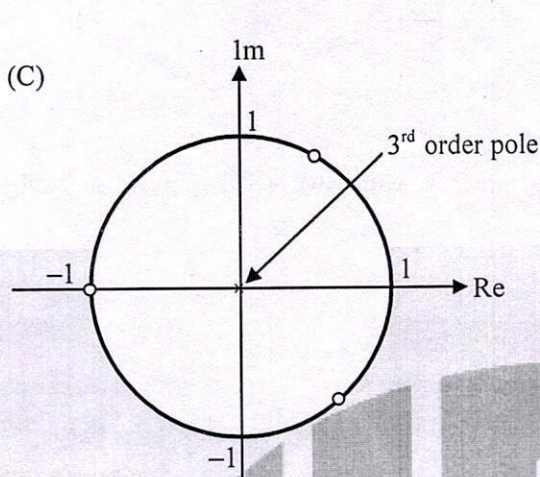(C) $\overline{Q} + PR$

(D) $PQ + \overline{Q}R$

Answer: **(D)**

<u>**Click here to watch video explanation**</u>

10. Which one of the following pole-zero plots corresponds to the transfer function of an LTI system characterized by the input-output difference equation given below?

$$y[n] = \sum_{k=0}^{3}(-1)^k x[n-k]$$

(A)

(B)

(C)

(D)

Answer: **(D)**

---
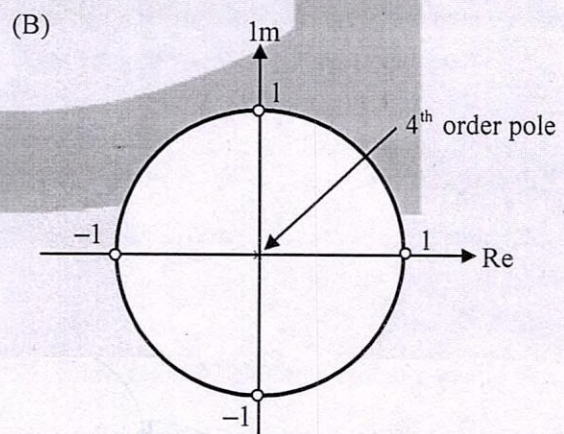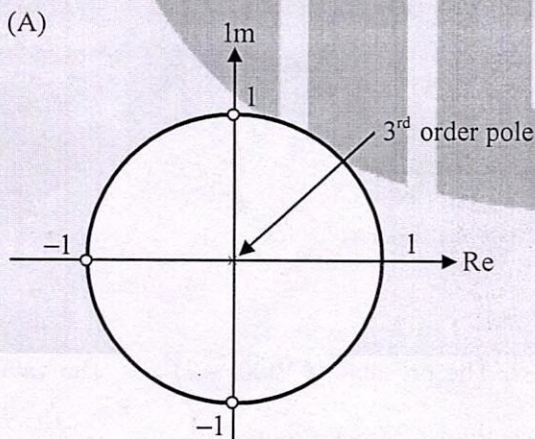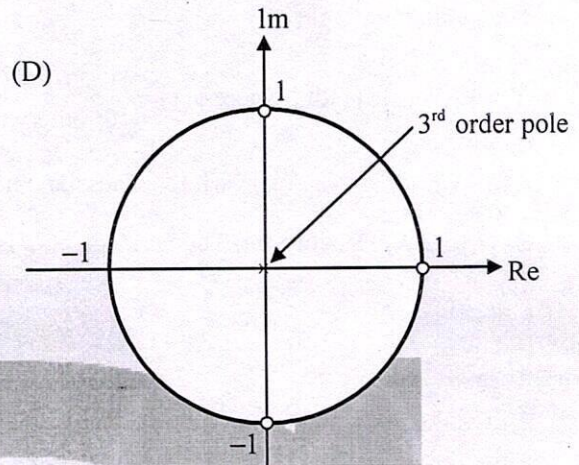
11. A transmission line of length $3\lambda/4$ and having a characteristic impedance of 50Ω is terminated with a load of 400Ω. The impedance **(rounded off to two decimal places)** seen at the input end of the transmission line is _____ Ω.

Answer: **(6.25)**

---

12. A single crystal intrinsic semiconductor is at a temperature of 300K with effective density of states for holes twice that of electrons. The thermal voltage is 26 mV.

The intrinsic Fermi level is shifted from mid-bandgap energy level by

(A) 9.01 meV   (B) 18.02 meV   (C) 13.45 meV   (D) 26.90 meV

Answer: **(A)**

---

13. In an 8085 microprocessor, the number of address lines required to access a 16 K byte memory bank is

_____.

Answer: **(14)**
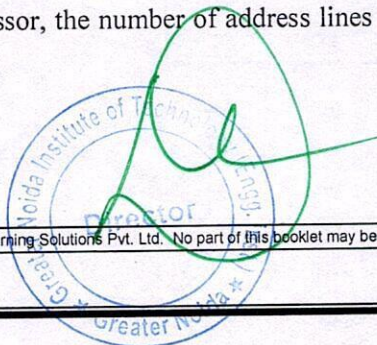
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14. The random variable

$$Y = \int_{-\infty}^{\infty} W(t)\phi(t)dt, \text{ where } \phi(t) = \begin{cases} 1; & 5 \le t \le 7 \\ 0; & \text{otherwise} \end{cases}$$

And W (t) is a real white Gaussian noise process with two-sided power spectral density $S_w(f) = 3\,W/Hz$, for all f. The variance of Y is _____.

Answer: (6)

---

15. A digital communication system transmits a block of N bits. The probability of error in decoding a bit is α. The error event of each bit is independent of the error events of the other bits. The received block is declared erroneous if at least one of its bits is decoded wrongly. The probability that the received block is erroneous is

(A) $N(1-\alpha)$ (B) $1-\alpha^N$ (C) $1-(1-\alpha)^N$ (D) α^N

Answer: (C)

---

16. A 10-bit D/A converter is calibrated over the full range from 0 to 10 V. If the input to the D/A converter is 13A (in hex), the output (**rounded off to three decimal places**) is _____ V.

Answer: (3.066)   **Click here to watch video explanation**

---

17. In the given circuit, the two-port network has the impedance matrix $[Z] = \begin{bmatrix} 40 & 60 \\ 60 & 120 \end{bmatrix}$. The value of Z_L for which maximum power is transferred to the load is _____ Ω.
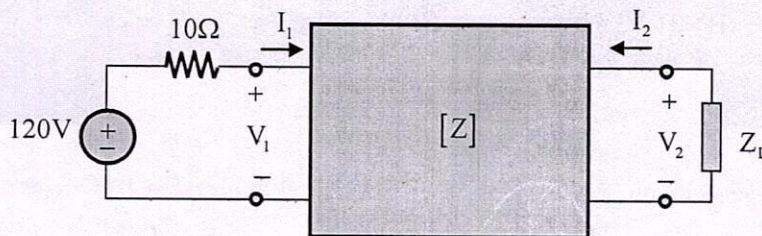
Answer: (48)   **Click here to watch video explanation**

18.   The output y[n] of a discrete-time system for an input x[n] is

$$y[n] = \max_{-\infty \le k \le n} |x[k]|.$$

The unit impulse response of the system is

(A) unit step signal u [n].   (B) unit impulse signal $\delta[n]$.

(C) 1 for all n.   (D) 0 for all n.
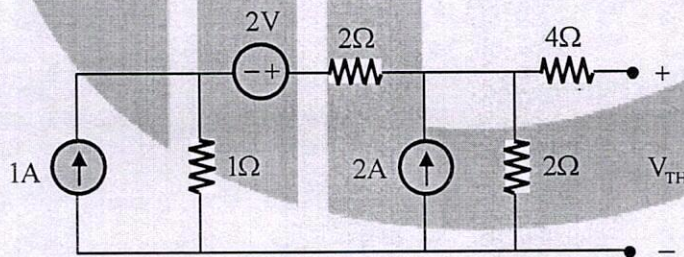
Answer: (A)   **Click here to watch video explanation**

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19.   If $v_1, v_2, ..., v_6$ are six vectors in R^4, which one of the following statements is FALSE?

(A) If $\{v_1, v_3, v_5, v_6\}$ spans R^4, then it forms a basis for R^4.

(B) Any four of these vectors form a basis for R^4.

(C) These vectors are not linearly independent.

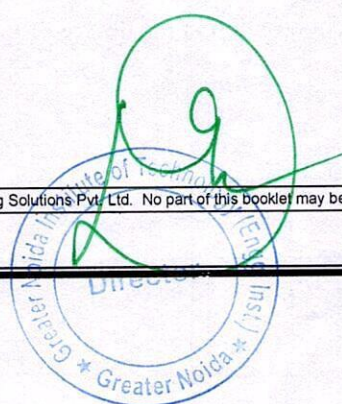(D) It is not necessary that these vectors span R^4.

Answer: (B)

---

20.   In the circuit shown below, the Thevenin voltage V_{TH} is

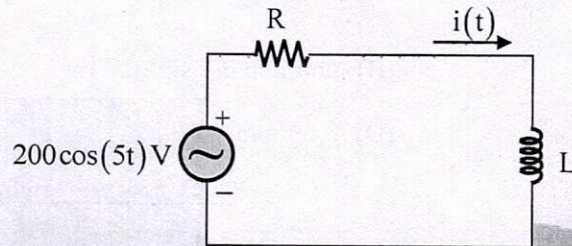(A) 4.5V   (B) 2.4V   (C) 3.6V   (D) 2.8V

Answer: (C)   **Click here to watch video explanation**

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21. The current in the RL-circuit shown below is $i(t) = 10\cos(5t - \pi/4)$ A.

The value of the inductor (**rounded off to two decimal places**) is _____ H.

Answer: (2.82)   <u>Click here to watch video explanation</u>

---

22. The impedances $Z = jX$, for all X in the range $(-\infty, \infty)$, map to the Smith chart as

(A) a line passing through the centre of the chart.

(B) a point at the centre of the chart.

(C) a circle of radius 0.5 with centre at (0.5,0).

(D) a circle of radius 1 with centre at (0, 0).

Answer: (D)   <u>Click here to watch video explanation</u>

---

23. Consider the recombination process via bulk traps in a forward biased pn homojunciton diode. The maximum recombination rate is U_{max}. If the electron and the hole capture cross-sections are equal, which one of the following if FALSE?

(A) With all other parameters unchanged, U_{max} decreases if the intrinsic carrier density is reduced.

(B) U_{max} depends exponentially on the applied bias.

(C) With all other parameters unchanged, U_{max} increases if the thermal velocity of the carriers increases.

(D) U_{max} occurs at the edges of the depletion region in the device

Answer: (D)

24. The two sides of a fair coin are labelled as 0 and 1. The coin is tossed two times independently. Let M and N denote the labels corresponding to the outcomes of those tosses. For a random variable X, defined as X=min (M,N), the expected value E(X) **(rounded off to two decimal places)** is _____.

Answer: (0.25)

---

25. The pole-zero map of a rational function G(s) is shown below. When the closed contour Γ is mapped into the G(s)- plane, then the mapping encircles
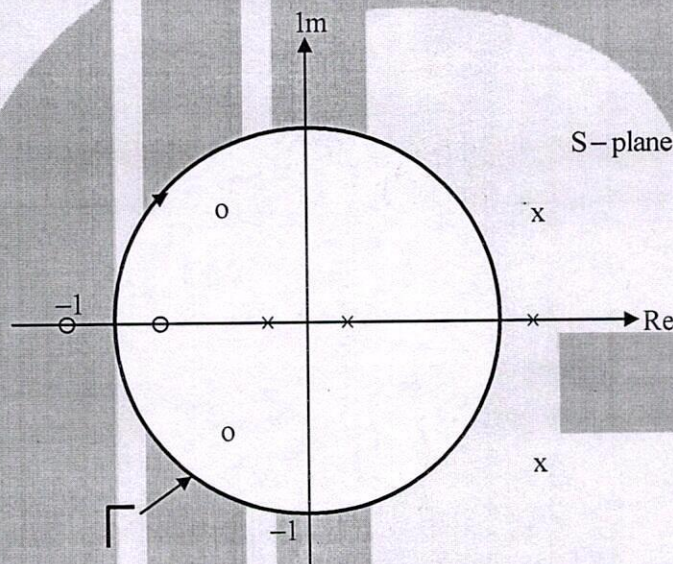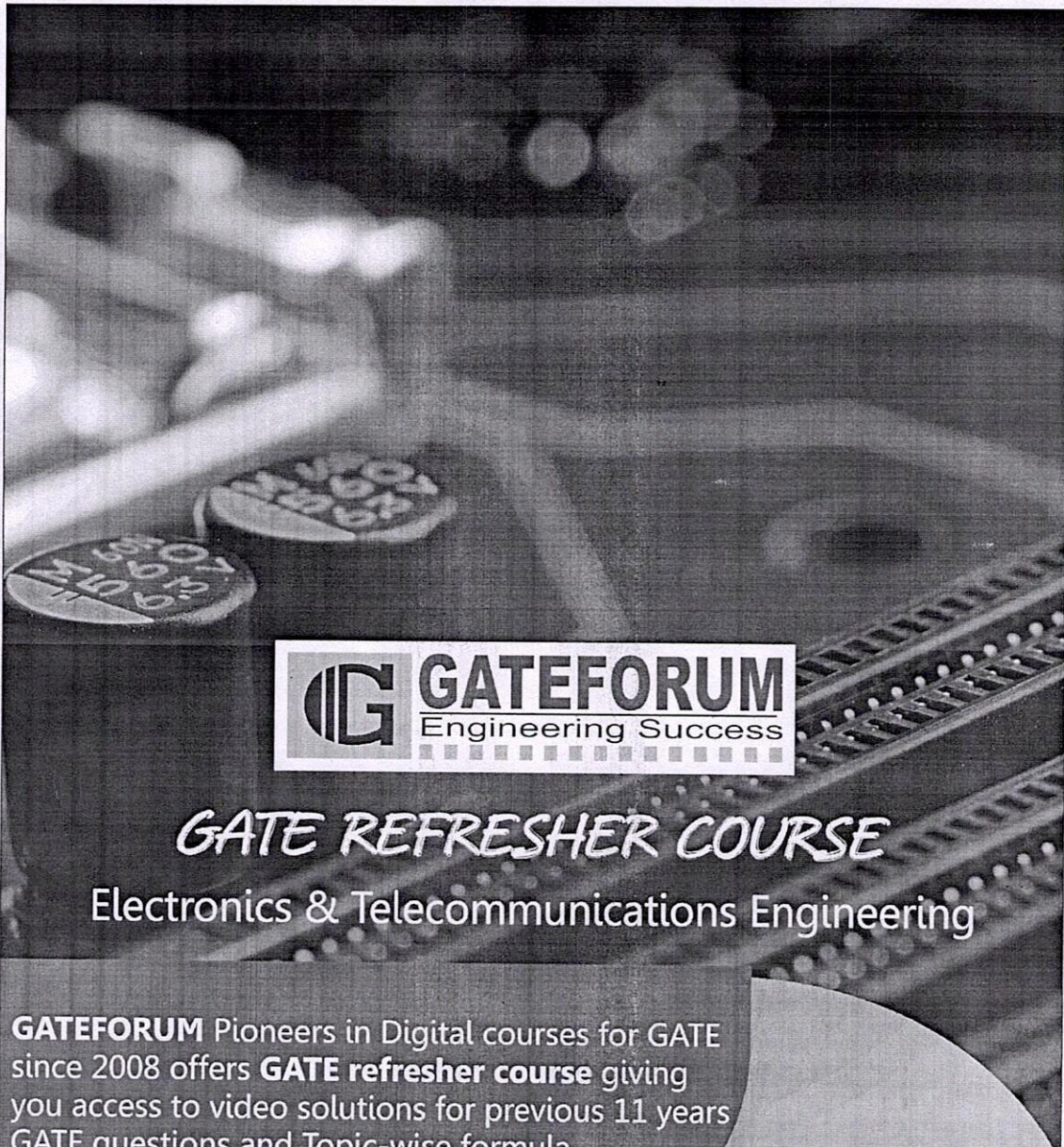

(A) the point -1+j0 of the G(s)-plane once in the clockwise direction.

(B) the point -1+j0 of the G(s)-plane once in the counter-clockwise direction.

(C) the origin of the G(s)-plane once in the clockwise direction

(D) the origin of the G(s)-plane once in the counter-clockwise direction.

Answer: (C)

Click here to watch video explanation
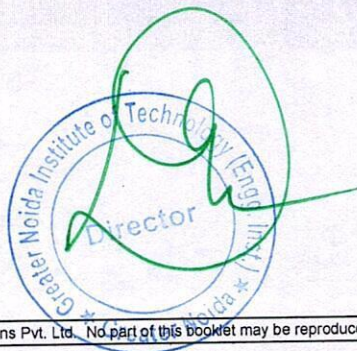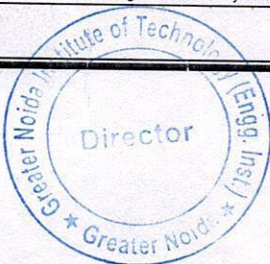
Q. No. 26 - 55 Carry Two Marks Each

26. $X(\omega)$ is the Fourier transform of x(t) shown below. The value of $\int_{-\infty}^{\infty}|X(\omega)|^2 \, d\omega$ (rounded off to two decimal places) is_____.
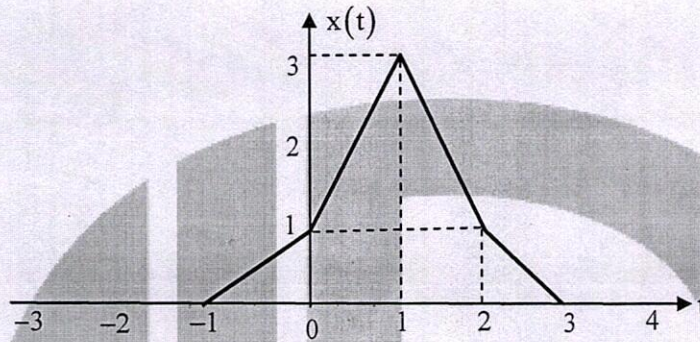
Answer: (58.61)

27. A one-sided abrupt pn junction diode has a depletion capacitance C_D of 50 pF at a reverse bias of 0.2V. The plot of $1/C_D^2$ versus the applied voltage V for this diode is a straight line as shown in the figure below. The slope of the plot is _____ $\times 10^{20}$ $F^{-2}V^{-1}$.
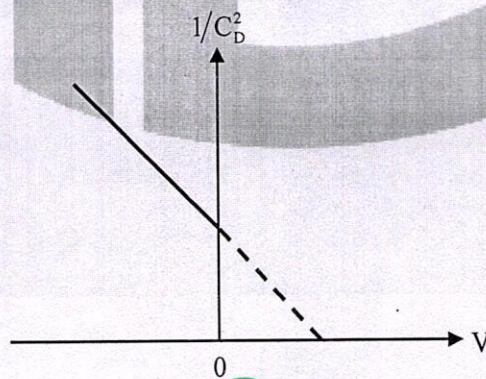
(A) −3.8   (B) −1.2   (C) −5.7   (D) −0.4

Answer: (*)

15

28. In the voltage regulator shown below, V_1 is the unregulated input at 15V. Assume $V_{BE} = 0.7V$ and the base current is negligible for both the BJTs. If the regulated output V_o is 9V, the value of R_2 is _____ Ω.
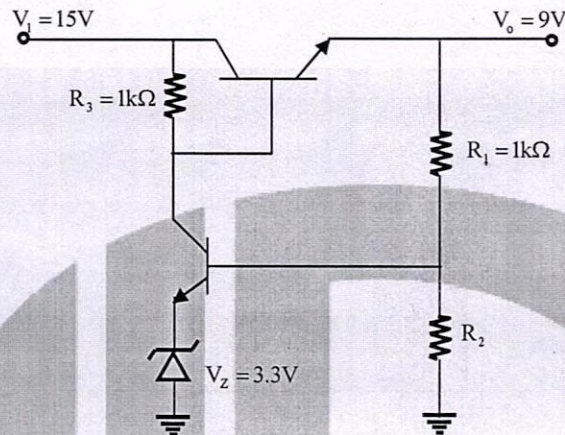
Answer: (800)

---

29. Consider the following closed loop control system
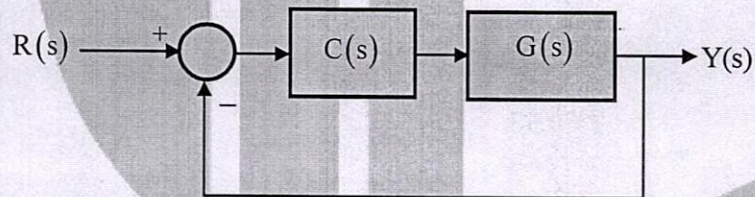
where $G(s) = \dfrac{1}{s(s+1)}$ and $C(s) = K\dfrac{s+1}{s+3}$ If the steady state error for a unit ramp input is 0.1, then the value of K is _____.

Answer: (30)

Click here to watch video explanation

30. The state diagram of a sequence detector is shown below. State S_0 is the initial state of the sequence detector. If the output is 1, then
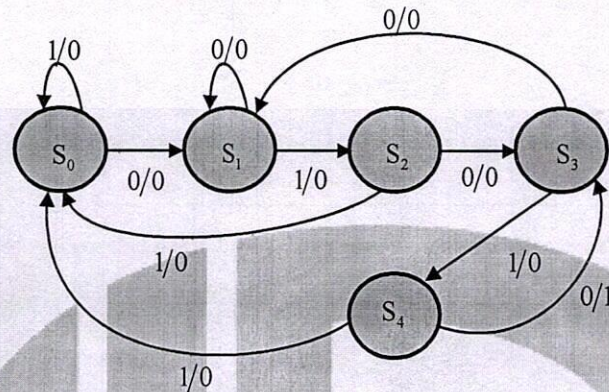
(A) the sequence 01010 is detected

(B) the sequence 01110 is detected.

(C) the sequence 01001 is detected

(D) the sequence 01011 is detected

Answer: (A)   **Click here to watch video explanation**

---

31. The characteristic equation of a system is

$$s^3 + 3s^2 + (K+2)s + 3K = 0$$

In the root locus plot for the given system, as K varies from 0 to ∞, the break-away or break-in point(s) lie within

(A) $(-\infty, -3)$ (B) $(-3, -2)$ (C) $(-1, 0)$ (D) $(-2, -1)$

Answer: (C)   **Click here to watch video explanation**

32. For the given circuit, which one of the following is the correct state equation?

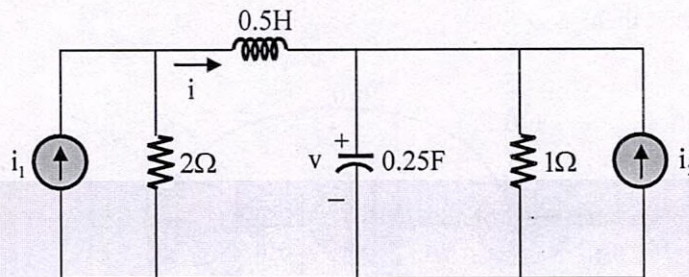(A) $\dfrac{d}{dt}\begin{bmatrix} v \\ i \end{bmatrix} = \begin{bmatrix} -4 & -4 \\ -2 & 4 \end{bmatrix}\begin{bmatrix} v \\ i \end{bmatrix} + \begin{bmatrix} 4 & 4 \\ 0 & 4 \end{bmatrix}\begin{bmatrix} i_1 \\ i_2 \end{bmatrix}$

(B) $\dfrac{d}{dt}\begin{bmatrix} v \\ i \end{bmatrix} = \begin{bmatrix} -4 & -4 \\ -2 & -4 \end{bmatrix}\begin{bmatrix} v \\ i \end{bmatrix} + \begin{bmatrix} 4 & 0 \\ 0 & 4 \end{bmatrix}\begin{bmatrix} i_1 \\ i_2 \end{bmatrix}$

(C) $\dfrac{d}{dt}\begin{bmatrix} v \\ i \end{bmatrix} = \begin{bmatrix} -4 & 4 \\ -2 & -4 \end{bmatrix}\begin{bmatrix} v \\ i \end{bmatrix} + \begin{bmatrix} 0 & 4 \\ 4 & 0 \end{bmatrix}\begin{bmatrix} i_1 \\ i_2 \end{bmatrix}$

(D) $\dfrac{d}{dt}\begin{bmatrix} v \\ i \end{bmatrix} = \begin{bmatrix} 4 & -4 \\ -2 & -4 \end{bmatrix}\begin{bmatrix} v \\ i \end{bmatrix} + \begin{bmatrix} 0 & 4 \\ 4 & 4 \end{bmatrix}\begin{bmatrix} i_1 \\ i_2 \end{bmatrix}$

Answer: **(C)**   **Click here to watch video explanation**

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33. The band diagram of a p-type semiconductor with a band-gap of 1 eV is shown.

Using this semiconductor, a MOS capacitor having V_{TH} of $-0.16V$, C'_{ox} of $100\,nF/cm^2$ and a metal work function of 3.87 eV is fabricated. There is no charge within the oxide. If the voltage across the capacitor is V_{TH}, the magnitude of depletion charge per unit area $\left(in\ C/cm^2\right)$ is
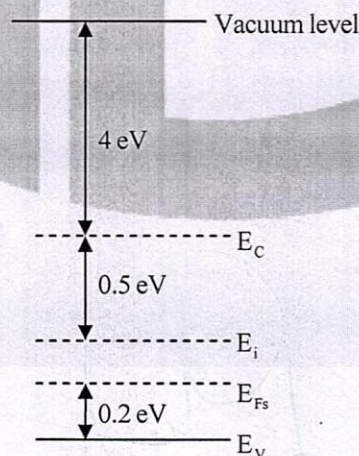
(A) 0.93×10^{-8} (B) 1.41×10^{-8} (C) 0.52×10^{-8} (D) 1.70×10^{-8}

Answer: **(D)**
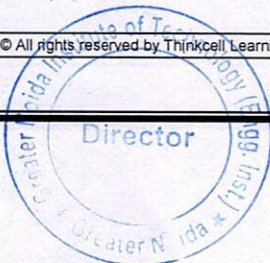
34. The base of an npn BJT T1 has a linear doping profile $N_B(x)$ has shown below.

The base of another npn BJT T2 has a uniform doping N_B of 10^{17} cm^{-3}. All other parameters are identical for both the devices. Assuming that the hole density profile is the same as that of doping, the common-emitter current gain of T2 is
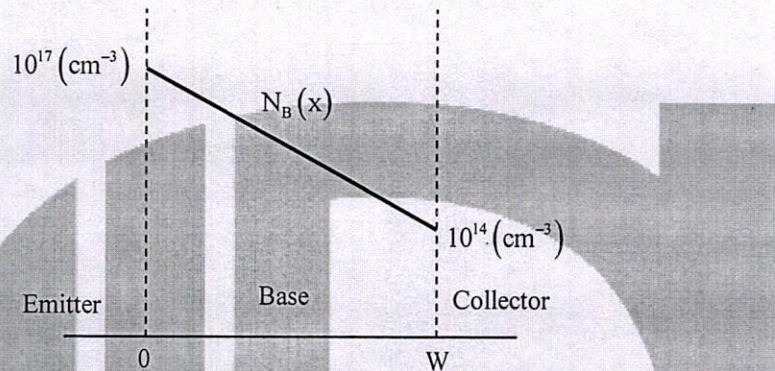
(A) approximately 2.0 times that of T1

(B) approximately 2.5 times that of T1

(C) approximately 0.3 times that of T1

(D) approximately 0.7 times that of T1

Answer: **(A)**

---

35. A finite duration discrete-time signal x[n] is obtained by sampling the continuous-time signal $x(t) = \cos(200\pi t)$ at sampling instants $t = n/400$, n=0,1,....,7. The 8-point discrete Fourier transform (DFT) of x[n] is defined as

$$X[k] = \sum_{n=0}^{7} x[n] e^{-j\frac{\pi kn}{4}}, \quad k = 0,1,...,7.$$

Which one of the following statements is TRUE?

(A) Only X[3] and X[5] are non-zero

(B) Only X[4] is non-zero.

(C) Only X[2] and X[6] are non-zero

(D) All X[k] are non-zero.

Answer: **(C)**

Click here to watch video explanation
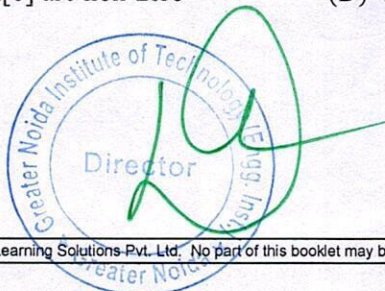
36. For the modulated signal $x(t) = m(t)\cos(2\pi f_c t)$, the message signal $m(t) = 4\cos(1000\pi t)$ and the carrier frequency f_c is 1MHz, The signal x(t) is passed through a demodulator, as shown in the figure below. The output y(t) of the demodulator is
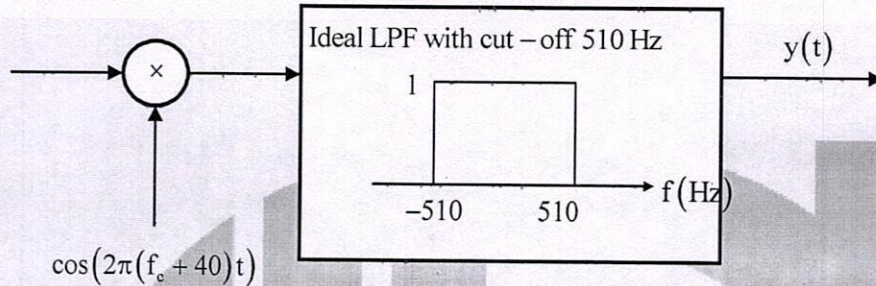
(A) $\cos(920\,\pi t)$ (B) $\cos(460\,\pi t)$ (C) $\cos(1000\pi t)$ (D) $\cos(540\,\pi t)$

Answer: (A)

---

37. Consider the following system of linear equations

$x_1 + 2x_2 = b_1;\ 2x_1 + 4x_2 = b_2;\ 3x_1 + 7x_2 = b_3;\ 3x_1 + 9x_2 = b_4$

Which one of the following conditions ensures that a solution exists for the above system?

(A) $b_3 = 2b_1$ and $3b_1 - 6b_3 + b_4 = 0$

(B) $b_3 = 2b_1$ and $6b_1 - 3b_3 + b_4 = 0$

(C) $b_2 = 2b_1$ and $3b_1 - 6b_3 + b_4 = 0$

(D) $b_2 = 2b_1$ and $6b_1 - 3b_3 + b_4 = 0$

Answer: (D)

---

38. The magnetic field of a uniform plane wave in vacuum is given by

$\vec{H}(x,y,z,t) = \left(\hat{a}_x + 2\hat{a}_y + b\hat{a}_z\right)\cos(\omega t + 3x - y - z).$

The value of b is _____.

Answer: (1)   **Click here to watch video explanation**

39. For a 2-port network consisting of an ideal lossless transformer, the parameter S_{21} (**rounded off to two decimal places**) for a reference impedance of $10\,\Omega$, is _____.

2 Port Network

2 : 1

Port 1   Port 2
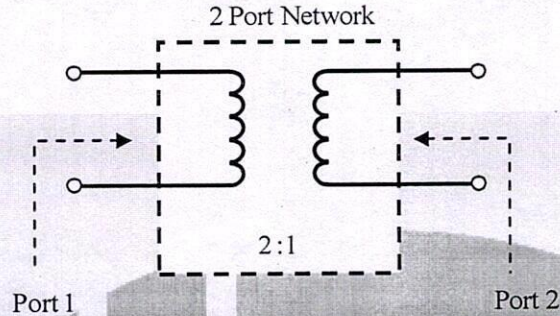
Answer: (0.8)   **Click here to watch video explanation**

---

40. P, Q and R are the decimal integers corresponding to the 4-bit binary number 1100 considered in signed magnitude, 1's complement, and 2's complement representations, respectively. The 6-bit 2's complement representation of (P+Q+R) is

(A) 110101   (B) 111001   (C) 110010   (D) 111101

Answer: (A)   **Click here to watch video explanation**

---

41. The components in the circuit given below are ideal. If $R = 2k\Omega$ and $C = 1\mu F$, the -3 dB cut-off frequency of the circuit in Hz is

$V_i(j\omega)$ R

R
C

2C   2R

$V_o(j\omega)$
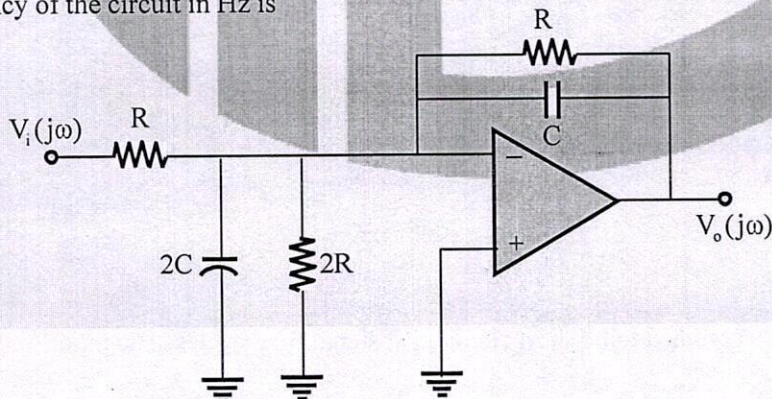
(A) 79.58   (B) 34.46   (C) 14.92   (D) 59.68

Answer: (A)
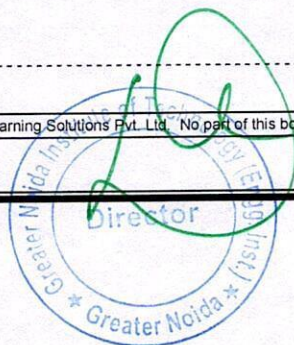
42. Using the incremental low frequency small-signal model of the MOS device, the Norton equivalent resistance of the following circuit is

(A) $\dfrac{r_{ds} + R}{1 + g_m r_{ds}}$

(B) $r_{ds} + R + g_m r_{ds} R$

(C) $r_{ds} + \dfrac{1}{g_m} + R$

(D) $r_{ds} + R$
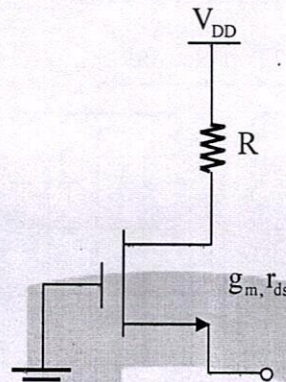
Answer: (A)

---

43. For the BJT in the amplifier shown below, $V_{BE} = 0.7V$, $kT/q = 26\,mV$. Assume that BJT output resistance (r_o) is very high and the base current is negligible.
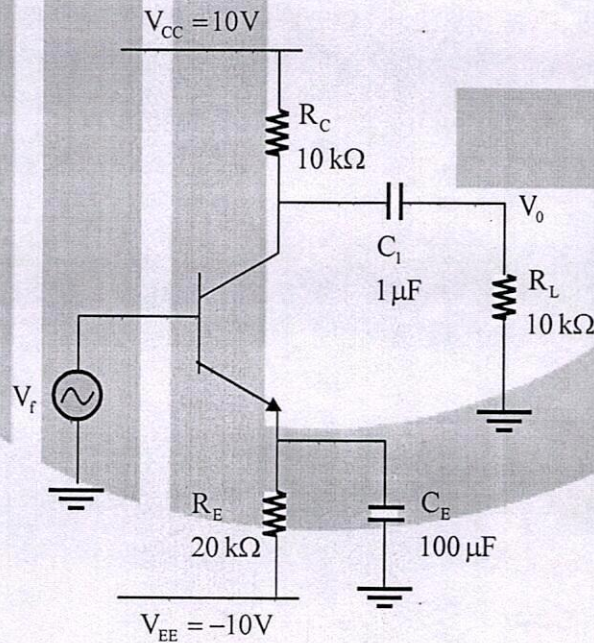
The capacitors are also assumed to be short circuited at signal frequencies. The input V_i is direct coupled. The low frequency voltage gain v_0/v_i of the amplifier is

(A) -178.85 (B) -128.21 (C) -256.42 (D) -89.42

Answer: (D)

44. In a digital communication system, a symbol S randomly chosen from the set $\{s_1, s_2, s_3, s_4\}$ is transmitted. It is given that $s_1 = -3, s_2 = -1, s_3 = +1$ and $s_4 = +2$. The received symbol is $T = S + W$. W is a zero-mean unit-variance Gaussian random variable and is independent of S. P_i is the conditional probability of symbol error for the maximum likelihood (ML) decoding when the transmitted symbol $S = s_i$. The index if for which the conditional symbol error probability P_i is the highest is _____.

Answer: **(3)**

---

45. Which one of the following options contains two solutions of the differential equation $\dfrac{dy}{dx} = (y-1)x$?

(A) $\ln|y-1| = 2x^2 + C$ and $y = 1$

(B) $\ln|y-1| = 2x^2 + C$ and $y = -1$

(C) $\ln|y-1| = 0.5x^2 + C$ and $y = 1$

(D) $\ln|y-1| = 0.5x^2 + C$ and $y = -1$

Answer: **(C)**

---

46. The current I in the given network is
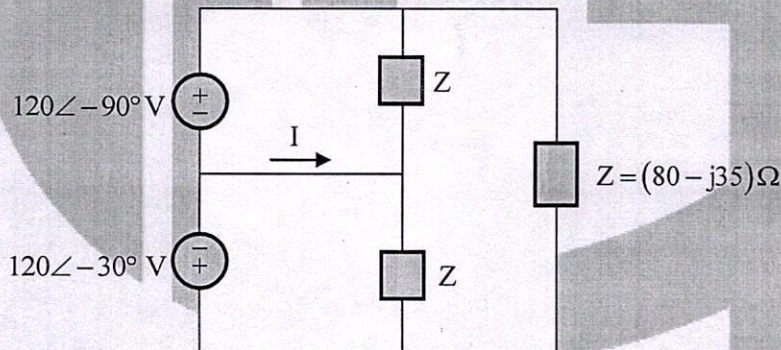
(A) $2.38\angle -23.63°$ A.

(B) $2.38\angle 143.63°$ A

(C) $2.38\angle -96.37°$ A

(D) 0A.

Answer: **(B)**

<u>**Click here to watch video explanation**</u>
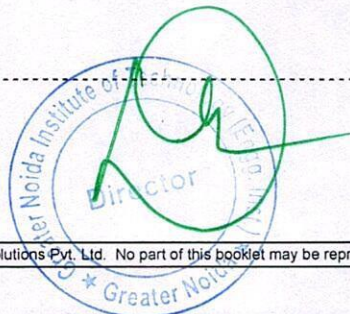
47. A system with transfer function $G(s) = \dfrac{1}{(s+1)(s+a)}, a > 0$ is subjected on an input 5cos 3t. The steady

state output of the system is $\dfrac{1}{\sqrt{10}}\cos(3t - 1.892)$. The value of a is _____.

Answer: (4)   <u>**Click here to watch video explanation**</u>

48. For the solid S shown below, the value of $\iiint\limits_{S} x\,dx\,dy\,dz$ **(rounded off to two decimal places)** is ____.
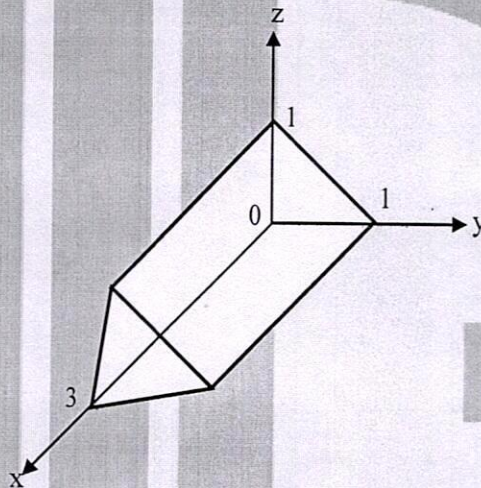
Answer: (2.25)

49. A pn junction solar cell of area $1.0\,\text{cm}^2$, illuminated uniformly with $100\,\text{mW cm}^{-2}$, has the following

parameters: Efficiency = 15%, open circuit voltage =0.7V, fill factor = 0.8, and thickness $= 200\mu m$. The

charge of an electron is $1.6\times10^{-9}\text{C}$. The average optical generation rate $\left(\text{in cm}^{-3}\text{s}^{-1}\right)$ is

(A) 1.04×10^{19} (B) 0.84×10^{19} (C) 5.57×10^{19} (D) 83.60×10^{19}

Answer: (B)

50. $S_{PM}(t)$ and $S_{FM}(t)$ as defined below, are the phase modulated and the frequency modulated waveforms, respectively, corresponding to the message signal m(t) shown in the figure.

$$S_{PM}(t) = \cos\left(1000\pi t + K_p m(t)\right)$$

$$\text{and } S_{FM}(t) = \cos\left(1000\pi t + K_f \int_{-\infty}^{t} m(\tau)d\tau\right)$$
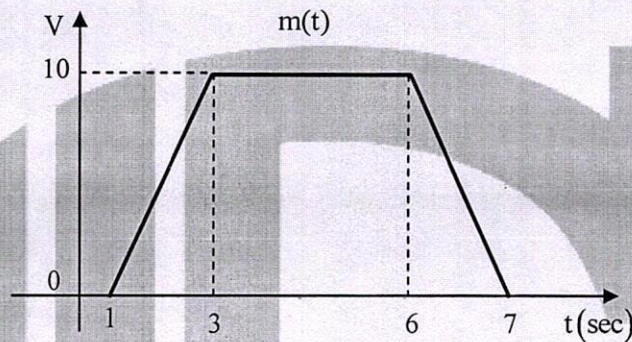
Where K_p is the phase deviation constant in radians/volt and K_f is the frequency deviation constant in radians/second/volt. If the highest instantaneous frequencies of $S_{PM}(t)$ and $S_{FM}(t)$ are same, then the

value of the ratio $\dfrac{K_p}{K_f}$ is _____ seconds.

Answer: **(2)**
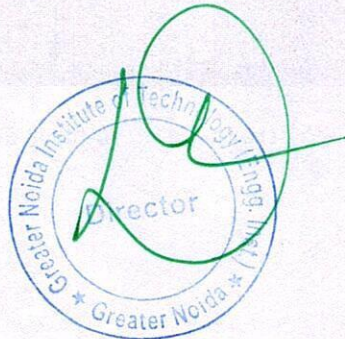
51. For an infinitesimally small dipole in free space, the electric field E_θ in the far field is proportional to $\left(e^{-jkr}/r\right)\sin\theta$, where $k = 2\pi/\lambda$. A vertical infinitesimally small electric dipole $\left(\delta\ell \ll \lambda\right)$ is placed at a distance h (h>0) above an infinite ideal conducting plane, as shown in the figure. The minimum value of h, for which one of the maxima in the far field radiation pattern occurs at $\theta = 60°$, is

(A) 0.5λ (B) λ (C) 0.25λ (D) 0.75λ
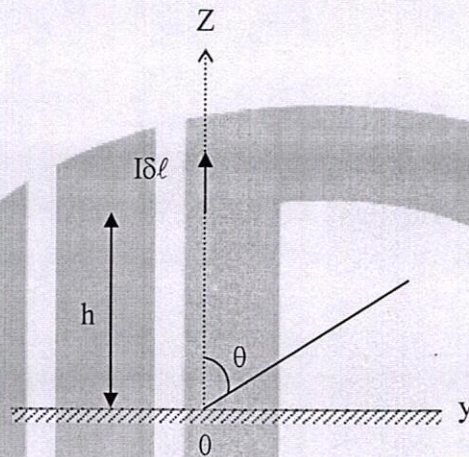
Answer: **(B)**   **Click here to watch video explanation**

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52. The transfer function of a stable discrete-time LTI system is $H(z) = \dfrac{K(z-\alpha)}{z+0.5}$ where K and α are real numbers. The value of α **(rounded off to one decimal place)** with $|\alpha| > 1$, for which the magnitude response of the system is constant over all frequencies, is _____.

Answer: **(-2)**   **Click here to watch video explanation**

---

53. X is a random variable with uniform probability density function in the interval $[-2, 10]$. For $Y = 2X - 6$, the conditional probability $P(Y \le 7 | X \ge 5)$ **(rounded off to three decimal places)** is _____.

Answer: **(0.3)**

---

54. For the components in the sequential circuit shown below, t_{pd} is the propagation delay, t_{setup} is the setup time, and t_{hold} is the hold time. The maximum clock frequency **(rounded off to the nearest integer)**, at which the given circuit can operate reliably, is _____MHz.
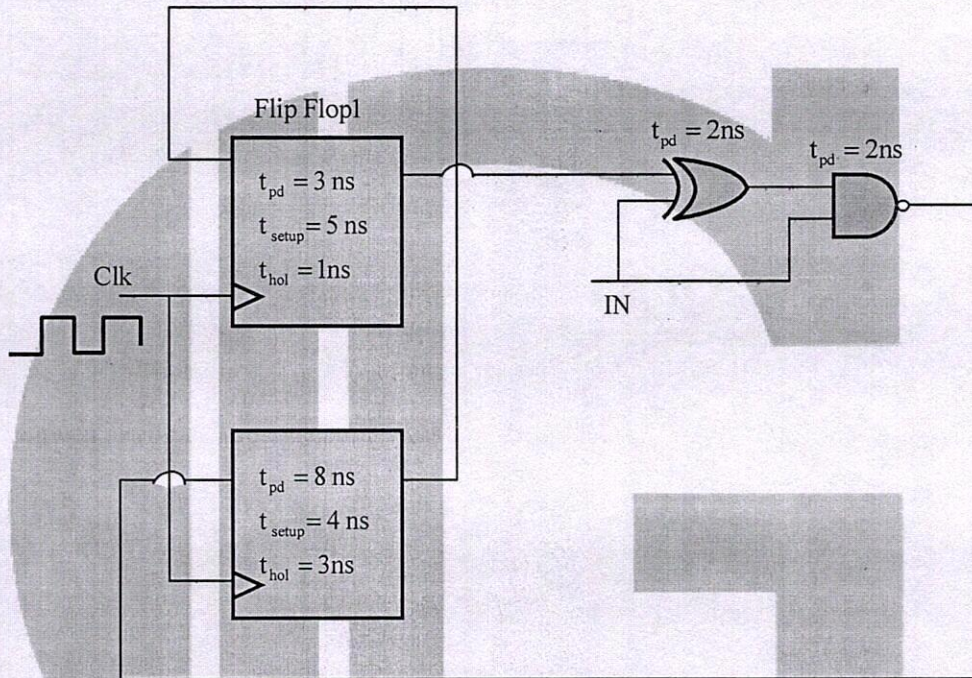
Answer: (76.92)
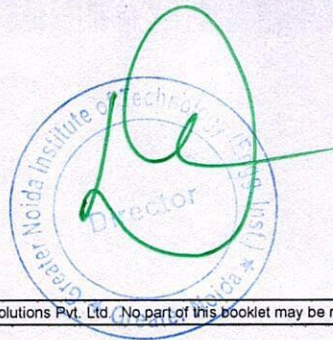
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55. An enhancement MOSFET of threshold voltage 3 V is being used in the sample and hold circuit given below. Assume that the substrate of the MOS device is connected to -10V. If the input voltage V_I lies between $\pm 10V$, the minimum and the maximum values of V_G required for proper sampling and holding respectively, are
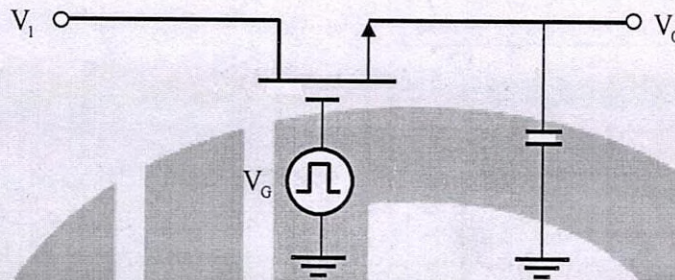
(A) 3V and -3V   (B) 13V and -7V   (C) 10V and -10V   (D) 10 V and -13 V

Answer: **(B)**

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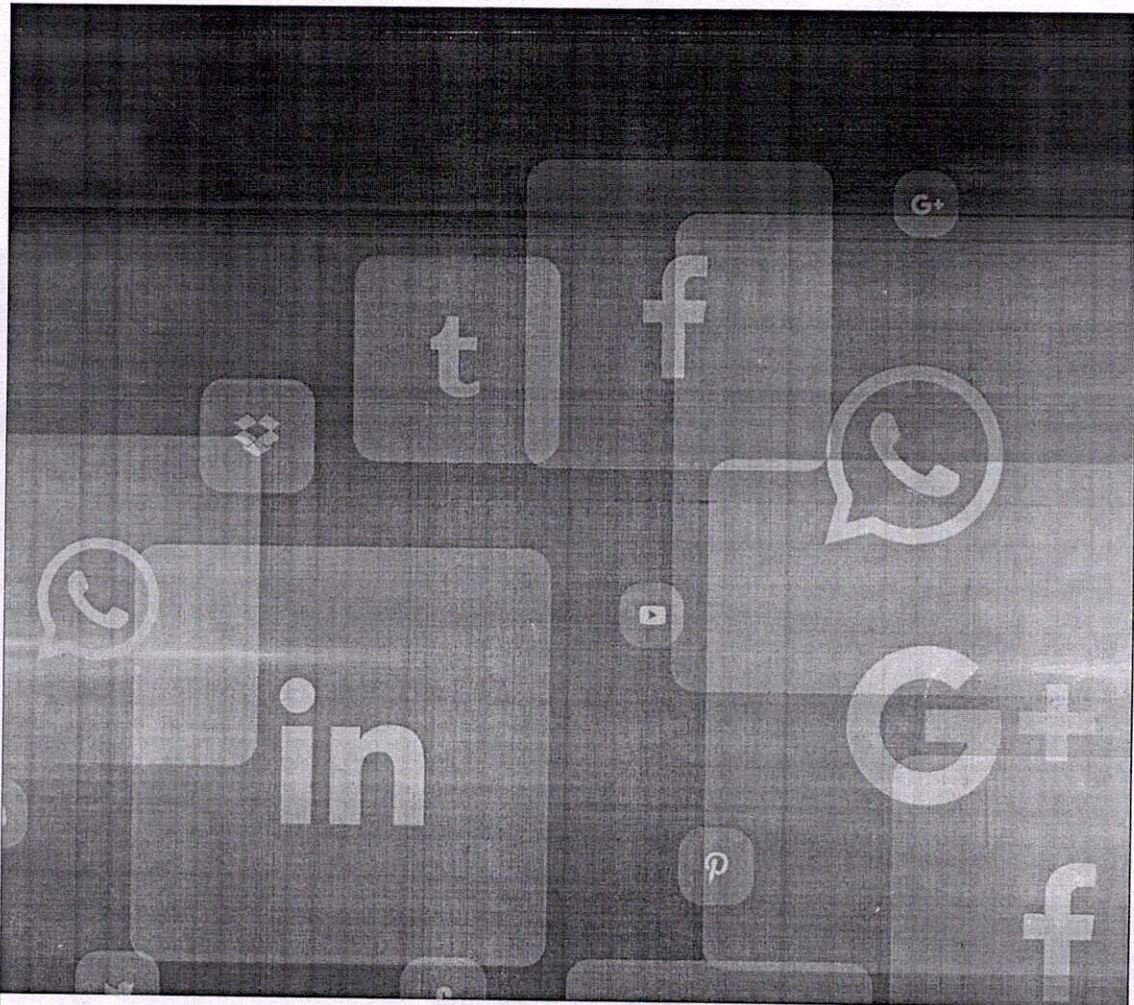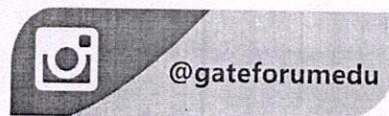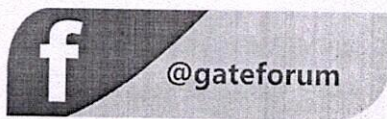
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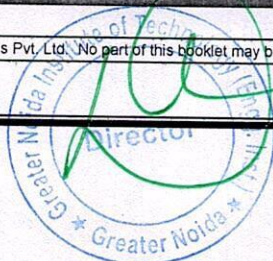
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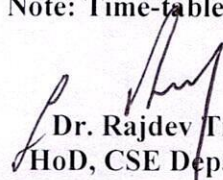
Computer Science and Information Technology (Code-CS)

<u>Circular</u>

This is to inform all students that GATE classes are being conducted by the **Computer Science and Information Technology (Code-CS)** according to the standard syllabus of GATE as per time table on working Saturday (Syllabus under current semester and previous semesters) **Computer Science and Information Technology (Code-CS)** students are hereby informed that In-House GATE coaching will start from 27/07/2019. Kindly register your name to the departmental coordinator Ms. Monika and Mr. Asif Khan.

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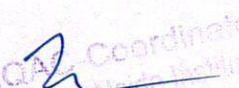
Note: Time-table is displayed on the notice board.

Dr. Rajdev Tiwari
HoD, CSE Department
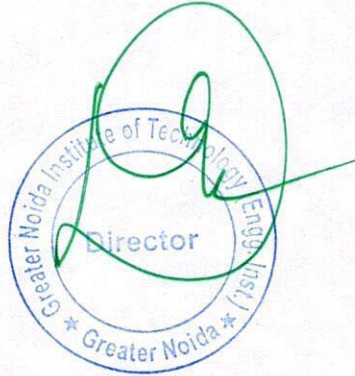
Dr. Ramveer Singh
HoD, IT Department
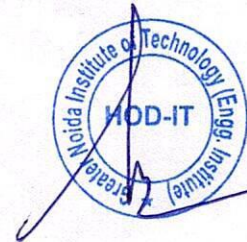
Computer Science and Information Technology (Code-CS)
GATE Classes (Module)

Section -1	Engineering Mathematics	13 Hours
Section -2	Digital logic (DL)	11 Hours
Section -3	Computer organization and architecture (COA)	13 Hours
Section -4	Programming and data structures (PDS)	13 Hours
Section -5	Algorithms (ALGO)	9 Hours
Section -6	Theory of computation (TOC)	9 Hours
Section -7	Compiler design (CD)	9 Hours
Section -8	Operating system (OS)	13 Hours
Section -9	Databases (DB)	13 Hours
Section -10	Computer networks (CN)	9 Hours
Section -11	Discrete mathematics (DM)	11 Hours
Section -12	Aptitude (APT)	11 Hours
	Total	134 hours
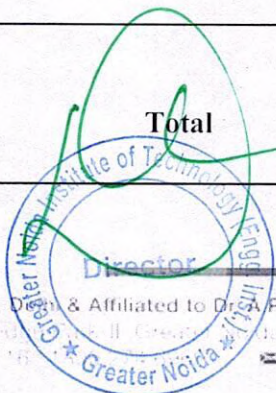
DETAILED SYLLABUS

Section 1: Engineering Mathematics

Linear Algebra: Matrices, determinants, the system of linear equations, eigenvalues and eigenvectors, LU decomposition.

Calculus: Limits, continuity and differentiability. Maxima and minima. Mean value theorem. Integration.

Probability and Statistics: Random variables. Uniform, normal, exponential, poisson and binomial distributions. Mean, median, mode and standard deviation. Conditional probability and Bayes theorem.

Section 2: Boolean algebra.

Combinational and sequential circuits. Minimization. Number representations and computer arithmetic (fixed and floating point).

Section 3: Computer Organization and Architecture.

Machine instructions and addressing modes. ALU, data-path and control unit. Instruction pipelining. Memory hierarchy: cache, main memory and secondary storage; I/O interface (interrupt and DMA mode).

Section 4: Programming and Data Structures

Programming in C. Recursion. Arrays, stacks, queues, linked lists, trees, binary search trees, binary heaps, graphs.

Section 5: Algorithms

Searching, sorting, hashing. Asymptotic worst-case time and space complexity. Algorithm design techniques: greedy, dynamic programming and divide?and?conquer. Graph search, minimum spanning trees, and shortest paths.

Section 6: Theory of Computation

Regular expressions and finite automata. Context-free grammars and push-down automata. Regular and context-free languages, pumping lemma. Turing machines and undecidability.

Section 7: Compiler Design

Lexical analysis, parsing, syntax-directed translation. Runtime environments. Intermediate code generation. Local optimisation, Data flow analyses: constant propagation, liveness analysis, common subexpression elimination.

Section 8: Operating System

System calls, processes, threads, inter-process communication, concurrency and synchronization. Deadlock. CPU and I/O scheduling. Memory management and virtual memory. File systems.

Section 9: Databases

ER model. Relational model: relational algebra, tuple calculus, SQL. Integrity constraints, normal forms. File organization, indexing (e.g., B and B+ trees). Transactions and concurrency control.

Section 10: Computer Networks

Concept of layering: OSI and TCP/IP Protocol Stacks; Basics of packet,circuit and virtual circuit switching; Data link layer: framing, error detection, Medium Access Control, Ethernet bridging; Routing protocols: shortest path, flooding, distance vector and link state routing; Fragmentation and IP addressing, IPv4, CIDR notation, Basics of IP support protocols (ARP, DHCP, ICMP), Network Address Translation (NAT); Transport layer: flow control and congestion control, UDP, TCP, sockets; Application layer protocols: DNS, SMTP, HTTP, FTP, Email

Section 11: Discrete Mathematics

Propositional and first-order logic. Sets, relations, functions, partial orders and lattices. Groups. Graphs: connectivity, matching, coloring. Combinatorics: counting, recurrence relations, generating functions.
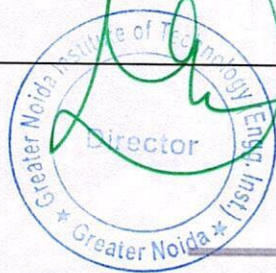
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Session (2019-20)

GATE-2019 Time Table

Room No: **w.e.f: 27/07/2019**

S.NO	DATE/TIME	9:15-10:5	10:55-12:35	12:35-1:35	1:35-3:15	3:15-4:55
1	27 JULY 2019	DL	PDS		OS	EM
2	3 AUG 2019	COA	ALGO		TOC	APT
3	17 AUG 2019	DL	CD		OS	EM
4	31 AUG 2019	COA	ALGO		DB	APT
5	07 SEPT 2019	CD	TOC		CN	EM
6	14 SEPT 2019	COA	ALGO		DB	APT
7	21 SEPT 2019	DL	PDS		OS	EM
8	28 SEPT 2019	TOC	ALGO		CD	APT
9	5 OCT 2019	DL	PDS		OS	EM
10	12 OCT 2019	COA	ALGO		DB	APT
11	19 OCT 2019	DL	PDS	BREAK	OS	EM
12	2 NOV 2019	TOC	ALGO		DB	APT
13	9 NOV 2019	DL	PDS		OS	EM
14	16 NOV 2019	COA	ALGO		CD	APT
15	19 NOV 2019	DL	PDS		TOC	EM
16	23 NOV 2019	COA	ALGO		DB	APT
17	30 NOV 2019	DL	CN		OS	EM

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Subject allotted to faculty members

Sr. No	Subjects	Faculty
1	Engineering mathematics (EM)	Dr. Ravindra kr.
2	Digital logic (DL)	YATIN KUMAR AGARWAL
3	Computer organization and architecture (COA)	MONIKA JAIN
4	Programming and data structures (PDS)	DEEPAK KANOJIA
5	Algorithms (ALGO)	PARUL VASHIST
6	Theory of computation (TOC)	VASUDHA TIWARI
7	Compiler design (CD)	ASIF KHAN
8	Operating system (OS)	ASHWINI KUMAR VERMA
9	Databases (DB)	NIDHI TYAGI
10	Computer networks (CN)	MANIKA TYAGI
11	Discrete mathematics (DM)	KRISHNA PRATAP RAO
12	Aptitude (APT)	Mr. Deepanshu

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List of students

S. NO.	ROLL NO	NAME	BATCH
1	1613213103	Shiv Kumar	2019-2020
2	1613213002	Abhishek Anand	2019-2020
3	1613213038	Bhavya Gupta	2019-2020
4	1613213039	Deepak kumar	2019-2020
5	1613213073	Nausheen Siddiqui	2019-2020
6	1613213008	Aishwarya Sharma	2019-2020
7	1613213107	Shruti Kaishwar	2019-2020
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9	1613213001	Abdul Quadir	2019-2020
10	1613213064	Mohd. Asif	2019-2020
11	1613213036	Asif Chaudhary	2019-2020
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17	1613213050	Harsh Thakur	2019-2020
18	1613213032	Arun Kumar	2019-2020
19	1613213063	Mohd. Asfand Noor	2019-2020
20	1613213010	Akash Malik	2019-2020
21	1613213099	Samad	2019-2020
22	1613213095	S. Gokul	2019-2020
23	1613213014	Ambarish Kumar Pandey	2019-2020
24	1613213053	Jash Ghosh	2019-2020
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28	1613213112	Sonal Gupta	2019-2020
29	1613213111	Smriti Kumari	2019-2020
30	1613213075	Neha Sharma	2019-2020
31	1613213017	Amrit Chaturvedi	2019-2020
32	1613213022	Ankit Raj	2019-2020
33	1613213089	Ranjeet Singh Bhadauriya	2019-2020

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35	1613213012	Alok Kumar	2019-2020
36	1613213033	Ashish Chaudhary	2019-2020
37	1613213048	Girish Kumar Singh	2019-2020
38	1713210003	AARYA SINGH	2019-2020
39	1713210088	NAVNEET KUMAR	2019-2020
40	1713210019	AMBESH JHA	2019-2020
41	1713210098	NISHANT TYAGI	2019-2020
42	1713210182	VISHAL SINGH	2019-2020
43	1713210133	SAGAR PANDEY	2019-2020
44	1713210011	ADARSH SINGH	2019-2020
45	1713210153	SHUBHAM	2019-2020
46	1713210124	ROBIN KUMAR	2019-2020
47	1713210028	ANURAG	2019-2020
48	1713210048	DIVYA RASHMI	2019-2020
49	1713210036	AYUSHI TRIVEDI	2019-2020
50	1713210024	ANKIT KUMAR RAI	2019-2020
51	1713210162	SUJEET KUMAR	2019-2020

Director

IQAC-Coordinator
Greater Noida Institute of Technology
(Engineering Institute)
Greater Noida

(Approved by AICTE, Delhi & Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow)
Plot No. 7, Knowledge Park-II, Greater Noida, Gautam Buddh Nagar, Uttar Pradesh 201310
0120-2326214   director@gniot.net.in   www.gniot.net.in

52	1713210184	VISHWAJEET KUMAR	2019-2020
53	1713210121	RITIK VASHISTHA	2019-2020
54	1713210138	SATISH SHARMA	2019-2020
55	1713210141	SHANI DEV KUMAR	2019-2020
56	1713210156	SHUBHAM RATHOUR	2019-2020
57	1713210163	SUKHRAJ SINGH	2019-2020
58	1713210183	VISHAL SINGH RANA	2019-2020
59	1713210130	SACHIN CHAUHAN	2019-2020
60	1713210003	AARYA SINGH	2019-2020
61	1713210088	NAVNEET KUMAR	2019-2020
62	1713210019	AMBESH JHA	2019-2020
63	1713210098	NISHANT TYAGI	2019-2020
64	1713210182	VISHAL SINGH	2019-2020
65	1713210133	SAGAR PANDEY	2019-2020
66	1713210011	ADARSH SINGH	2019-2020
67	1713210153	SHUBHAM	2019-2020
68	1713210124	ROBIN KUMAR	2019-2020
69	1713210028	ANURAG	2019-2020

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Plot No. 7, Knowledge Park II, Greater Noida, Gautam Budh Nagar, Uttar Pradesh-201310
0120-2326214/15/16 1800 274 0969 director@gniot.net.in gniot.net.in

70	1713210048	DIVYA RASHMI	2019-2020
71	1713210036	AYUSHI TRIVEDI	2019-2020
72	1713210024	ANKIT KUMAR RAI	2019-2020
73	1713210162	SUJEET KUMAR	2019-2020
74	1713210184	VISHWAJEET KUMAR	2019-2020
75	1713210121	RITIK VASHISTHA	2019-2020
76	1713210138	SATISH SHARMA	2019-2020
77	1713210141	SHANI DEV KUMAR	2019-2020
78	1713210156	SHUBHAM RATHOUR	2019-2020
79	1713210163	SUKHRAJ SINGH	2019-2020
80	1713210183	VISHAL SINGH RANA	2019-2020
81	1713210130	SACHIN CHAUHAN	2019-2020
82	1713210003	AARYA SINGH	2019-2020
83	1713210088	NAVNEET KUMAR	2019-2020
84	1713210019	AMBESH JHA	2019-2020
85	1713210098	NISHANT TYAGI	2019-2020
86	1713210182	VISHAL SINGH	2019-2020

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ग्रेटर नोएडा इंस्टीट्यूट ऑफ टेक्नोलॉजी (इंजीनियरिंग इंस्टीट्यूट)
GREATER NOIDA INSTITUTE OF TECHNOLOGY (Engg. Institute)

Attendance format 2019

S.No.	Name	Branch	Year	27-Jul-19	27-Jul-19	17-Aug-19	31-Aug-19	07-Sep-19	14-Sep-19	21-Sep-19	28-Sep-19	05-Oct-19	12-Oct-19	19-Oct-19	02-Nov-19	09-Nov-19	16-Nov-19	19-Nov-19	23-Nov-19	30-Nov-19	Total classes (17)
1																					
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					

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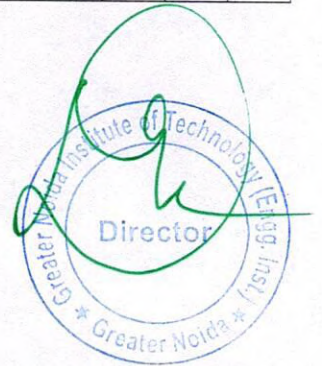
ग्रेटर नोएडा इंस्टीट्यूट ऑफ टेक्नोलॉजी (इंजीनियरिंग इंस्टीट्यूट)
GREATER NOIDA INSTITUTE OF TECHNOLOGY (Engg. Institute)

Date: 02/07/2019

Electrical Engineering Department

Circular

This is to inform all students that GATE classes are being conducted by the Electrical Engineering Department according to the standard syllabus of GATE as per time table on working Saturday (Syllabus under current semester and previous semesters) Electrical Engineering students are hereby informed that in-House GATE coaching will start from 13/07/2019. Kindly register your name to the departmental coordinator Mr. Bhuvnesh Khokhar.

GATE scores are being used by several Indian public sector undertakings for recruiting graduate engineers entry-level positions and for doing M.Tech and Ph.D. in IITs/NITs. It is one of the most important competitive examinations in India.

Note: Time-table is displayed on notice board.

IQAC-Coordinator
Greater Noida Institute of Technology
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Greater Noida

Dr. Sunil Chaudary
HOD
E.E DEPTT.
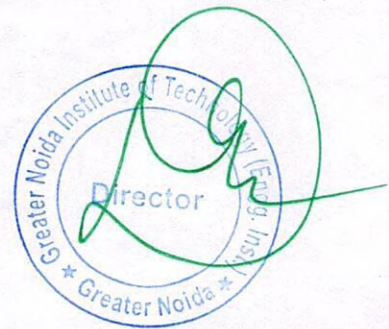
Electrical Engineering Department

GATE Classes (Module)

Section -1	Engineering Mathematics(EM)	15 Hours
Section -2	Electric circuits(EC)	13 Hours
Section -3	Electromagnetic Fields(EMFT)	13 Hours
Section -4	Electrical Machines(EM)	13 Hours
Section -5	Power Systems(PS)	13 Hours
Section -6	Control Systems(CS)	13 Hours
Section -7	Analog and Digital Electronics(ADE)	13 Hours
Section -8	Power Electronics (PE)	13 Hours
Section -9	General Aptitude (GA)	15 Hours
	Total	**121 Hours**

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Section 1: Engineering Mathematics

Linear Algebra: Matrix Algebra, Systems of linear equations, Eigenvalues, Eigenvectors.

Calculus: Mean value theorems, Theorems of integral calculus, Evaluation of definite and improper integrals, Partial Derivatives, Maxima and minima, Multiple integrals, Fourier series, Vector identities, Directional derivatives, Line integral, Surface integral, Volume integral, Stokes's theorem, Gauss's theorem, Divergence theorem, Green's theorem.

Differential equations: First order equations (linear and nonlinear), Higher order linear differential equations with constant coefficients, Method of variation of parameters, Cauchy's equation, Euler's equation, Initial and boundary value problems, Partial Differential Equations, Method of separation of variables.

Complex variables: Analytic functions, Cauchy's integral theorem, Cauchy's integral formula, Taylor series, Laurent series, Residue theorem, Solution integrals.

Probability and Statistics: Sampling theorems, Conditional probability, Mean, Median, Mode, Standard Deviation, Random variables, Discrete and Continuous distributions, Poisson distribution, Normal distribution, Binomial distribution, Correlation analysis, Regression analysis.

Section 2: Electric circuits

Network elements: ideal voltage and current sources, dependent sources, R, L, C, M elements; Network solution methods: KCL, KVL, Node and Mesh analysis; Network Theorems: Thevenin's, Norton's, Superposition and Maximum Power Transfer theorem; Transient response of dc and ac networks, sinusoidal steady-state analysis, resonance, two port networks, balanced three phase circuits, star-delta transformation, complex power and power factor in ac circuits

## Section 3: Electromagnetic Fields

Coulomb's Law, Electric Field Intensity, Electric Flux Density, Gauss's Law, Divergence, Electric field and potential due to point, line, plane and spherical charge distributions, Effect of dielectric medium, Capacitance of simple configurations, Biot- Savart's law, Ampere's law, Curl, Faraday's law, Lorentz force, Inductance, Magneto motive force, Reluctance, Magnetic circuits, Self and Mutual inductance of simple configurations

Section 4: Electrical Machines

Single phase transformer: equivalent circuit, phasor diagram, open circuit and short circuit tests, regulation and efficiency; Three-phase transformers: connections, vector groups, parallel operation; Auto-transformer, Electromechanical energy conversion principles; DC machines: separately excited, series and shunt, motoring and generating mode of operation and their characteristics, speed control of dc motors; Three-phase induction machines: principle of operation, types, performance, torque -speed characteristics, no -load and blocked-rotor tests, equivalent circuit, starting and speed control; Operating principle of single-phase induction motors; Synchronous machines: cylindrical and salient pole machines, performance and characteristics, regulation and parallel operation of generators, starting of synchronous motors; Types of losses and efficiency calculations of electric machines

Section 5: Power Systems

Basic concepts of electrical power generation, ac and dc transmission concepts, Models and performance of transmission lines and cables, Economic Load Dispatch (with and without considering transmission losses), Series and shunt compensation, Electric field distribution and insulators, Distribution systems, Per-unit quantities, Bus admittance matrix, Gauss- Seidel and Newton - Raphson load flow methods, Voltage and
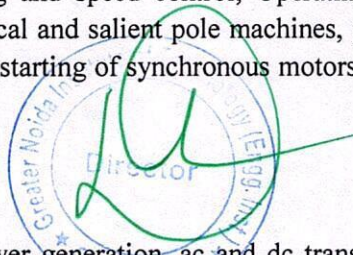
Frequency control, Power factor correction, Symmetrical components, Symmetrical and unsymmetrical fault analysis, Principles of over-current, differential, directional and distance protection; Circuit breakers, System stability concepts, Equal area criterion.

Section 6: Control Systems

Mathematical modeling and representation of systems, Feedback principle, transfer function, Block diagrams and Signal flow graphs, Transient and Steady-state analysis of linear time invariant systems, Stability analysis using Routh-Hurwitz and Nyquist criteria, Bode plots, Root loci, Lag, Lead and Lead-Lag compensators; P, PI and PID controllers; State space model, Solution of state equations of LTI systems

Section 7: Analog and Digital Electronics

Simple diode circuits: clipping, clamping, rectifiers; Amplifiers: biasing, equivalent circuit and frequency response; oscillators and feedback amplifiers; operational amplifiers: characteristics and applications; single stage active filters, Active Filters: Sallen Key, Butterwoth, VCOs and timers, combinatorial and sequential logic circuits, multiplexers, demultiplexers, Schmitt triggers, sample and hold circuits, A/D and D/A converters

Section 8: Power Electronics

Static V-I characteristics and firing/gating circuits for Thyristor, MOSFET, IGBT; DC to DC conversion: Buck, Boost and Buck-Boost Converters; Single and three-phase configuration of uncontrolled rectifiers; Voltage and Current commutated Thyristor based converters; Bidirectional ac to dc voltage source converters; Magnitude and Phase of line current harmonics for uncontrolled and thyristor based converters; Power factor and Distortion Factor of ac to dc converters; Single-phase and three-phase voltage and current source inverters, sinusoidal   pulse   width   modulation
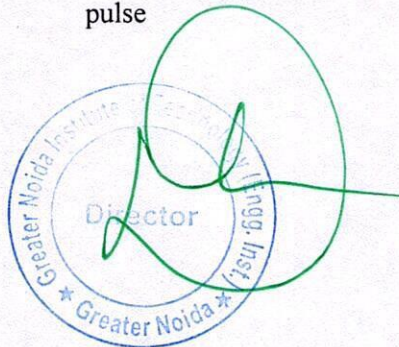
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ग्रेटर नोएडा इंस्टीट्यूट ऑफ टेक्नोलॉजी (इंजीनियरिंग इंस्टीट्यूट)
GREATER NOIDA INSTITUTE OF TECHNOLOGY (Engg. Institute)

ELECTRICAL ENGINEERING (Code-EE)
Session (2019-20)
GATE-2020 (Time Table)
w.e.f: 13/07/2019

DATE/TIME	9:15-10:55	10:5-12:35	12:35-1:35	1:35-3:15	3:15-4:55
13 JULY 2019	EM	EC		EMFT	PE
27 JULY 2019	EMA	PS		CS	ADE
10 AUG 2019	GA	EM		EC	EMFT
24 AUG 2019	PE	EMA		PS	CS
31 AUG 2019	ADE	GA		EM	EC
14 SEP 2019	EMFT	PE		EMA	PS
21 SEP 2019	CS	ADE		GA	EM
28 SEP 2019	EC	EMFT		PE	EMA
05 OCT 2019	PS	CS		ADE	GA
12 OCT 2019	EM	EC	BREAK	EMFT	PE
19 OCT 2019	EMA	PS		CS	ADE
26 OCT 2019	GA	EM		EC	EMFT
02 NOV 2019	PE	EMA		PS	CS
09 NOV 2019	ADE	GA		EM	EC
16 NOV 2019	EM	EC		EMFT	PE
23 NOV 2019	EMA	PS		CS	ADE
30 NOV 2019	GA	EM		EC	EMFT
07 DEC 2019	PREVIOUS PAPER DISCUSSION			PE	EMA
14 DEC 2019	PREVIOUS PAPER DISCUSSION			PS	CS
21 DEC 2019	PREVIOUS PAPER DISCUSSION			ADE	PE
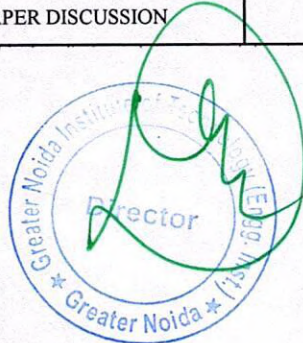
Director
Greater Noida

IQAC-Coordinator
Greater Noida Institute of Technology
(Engineering Institute)
Greater Noida

Subjects allotted to Faculty members

S. No.	Subjects	Faculty
1	Engineering mathematics (EM)	Mr. Sandeep Goyat
2	Electric circuits (EC)	Mr. Ankit Gupta
3	Electromagnetic Fields (EF)	Mr. Sushil Singh
4	Electrical Machines (EMC)	Mr. Nikhil Gupta
5	Power Systems (PS)	Mr. Aneep Malik
6	Control Systems (CS)	Mr. Rajesh Dhaka
7	Analog and Digital Electronics (ADE)	Ms. Renuka Gandhi
8	Power Electronics (PE)	Ms. Indu Bhushan
9	General Aptitude(GA)	Mr. Bhuvnesh Khokhar
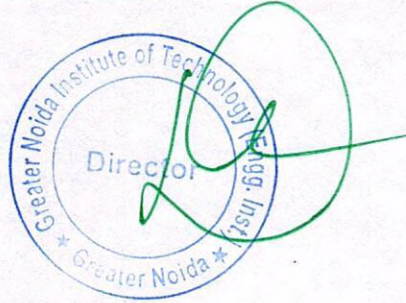
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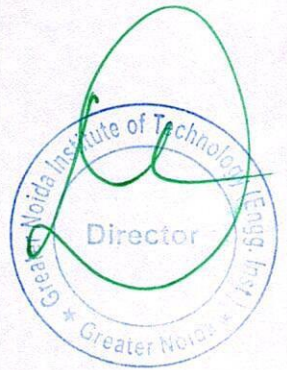## GREATER NOIDA INSTITUTE OF TECHNOLOGY (Engg. Institute)

Student List

S.No.	Id No.	AICTE Enrollment No	Student Name	Batch
1	170046	1713220009	DILLIP KUMAR MOHAPATRA	2020-21
2	170105	1713210188	WASEEM AHEMAD	2020-21
3	170114	1713220010	HARSH KAUSHIK	2020-21
4	170155	1713220026	SAURABH KUMAR	2020-21
5	170170	1713220031	VIBHANSHU BHARDWAJ	2020-21
6	170200	1713220027	SHIVAM CHAUHAN	2020-21
7	170285	1713220020	PIYUSH KUMAR	2020-21
8	170312	1713220028	SUDHANSHU TRIPATHI	2020-21
9	170317	1713220015	MD IMSHAD	2020-21
10	170318	1713220032	VISHAL	2020-21
11	170324	1713220025	SACHIN DEV	2020-21
12	170326	1713220003	AKASH BHARADWAJ	2020-21
13	170335	1713220007	BITTU KUMAR	2020-21
14	170337	1713220030	SUSHANT KUMAR	2020-21
15	170348	1713220016	MD HAMZA	2020-21
16	170351	1713220013	KHUSROO TARIQUE	2020-21
17	170419	1713220021	PRABHAT SINGH	2020-21
18	170461	1713220019	NAMRATA YADAV	2020-21
19	170462	1713220023	ROSHANI SINGH	2020-21
20	170521	1713220004	AMAN KUMAR	2020-21
21	170608	1713220017	MOHD FARMAN	2020-21
22	170613	1713220022	PUSHPAK KUMAR GAUTAM	2020-21
23	170665	1713220001	AADIL HAMEED DAR	2020-21
24	170792	1713220024	SABIYA MIR	2020-21
25	180461	1813220902	ABHISHEK KASHYAP	2020-21
26	180496	1813220903	AMIT KUMAR VIMAL	2020-21
27	180534	1813220907	GEETANJALI KASHYAP	2020-21
28	180608	1813220901	ABDUL RAHEEM	2020-21
29	180626	1813220904	ANKUR ROSHAN	2020-21
30	180646	1813220905	DESH GOURAV	2020-21
31	180660	1813220908	HIMANSHU SHEKHAR	2020-21
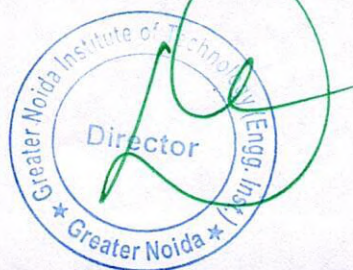
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Engg. Inst.
Greater Noida

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Greater Noida

S.No.	Id No.	Enrollment No	Student Name	Batch
1	150089	1513220001	ABHISHEK BHARDWAJ	2019-20
2	150352	1513220023	CHANDRA PRAKASH	2019-20
3	150499	1513220043	NIKHIL SHARMA	2019-20
4	160037	1613220020	MD SHOAIB KHAN	2019-20
5	160051	1613220028	RAFIULLAH ALAM	2019-20
6	160089	1613220040	SUHEL KHAN	2019-20
7	160093	1613220026	PAWAN RAUT	2019-20
8	160125	1613220021	MD TAUSHIF RAJA	2019-20
9	160205	1613220037	SHIVAM MISHRA	2019-20
10	160248	1613220016	MD AAMIR SOHAIL KHAN	2019-20
11	160254	1613220032	RASHID QUDDUS	2019-20
12	160255	1613220006	AKHLAQUE AHMAD KHAN	2019-20
13	160259	1613220005	AKASH SRIVASTAV	2019-20
14	160282	1613220008	AMIT KUMAR MAURYA	2019-20
15	160301	1613220007	AMIT KUMAR	2019-20
16	160357	1613220034	SACHIN GUPTA	2019-20
17	160373	1613220014	JAYKANT KUMAR	2019-20
18	160386	1613220029	RAHUL ROUSHAN	2019-20
19	160424	1613220023	MOHD ZEESHAN	2019-20
20	160437	1613220001	ADARSH SINHA	2019-20
21	160438	1613220004	AJIT KUMAR YADAV	2019-20
22	160490	1613220012	HIRA LAL VERMA	2019-20
23	160578	1613220015	MANISH CHAURASIA	2019-20
24	160593	1613220041	SURENDRA KUMAR PATEL	2019-20
25	160599	1613220011	GAGAN VEER SINGH	2019-20
26	160625	1613220044	VISHAL GAURAV	2019-20
27	160664	1613220038	SHIVENDRA SRIVASTAVA	2019-20
28	160670	1613220003	AJEY PRATAP SINGH	2019-20
29	160671	1613220027	PRANJAL PATHAK	2019-20
30	160696	1613220031	RAKESH CHAUHAN	2019-20
31	160776	1613220010	BIJAY KUMAR	2019-20
32	160777	1613220039	SUDDU KUMAR	2019-20
33	160799	1613220024	MONU KUMAR	2019-20
34	160815	1613220022	MOHD SAQIB MASOOD	2019-20
35	160863	1613220017	MD FAIZ AKRAM	2019-20
36	160874	1613220009	ANURAG YADAV	2019-20
37	160890	1613220018	MD IRFAN ALAM	2019-20
38	160915	1613220036	SHAILENDRA KUMAR	2019-20
39	161034	1613220033	ROHAN KUMAR	2019-20
40	170091	1713220906	MANISH KUMAR	2019-20
41	170189	1713220911	RAJU YADAV	2019-20
42	170366	1713220905	KRISHNA CHANDRA RAI	2019-20

43	170445	1713220904	HUMAZA AMIN SOFI	2019-20
44	170544	1713220912	RAJVEER SINGH	2019-20
45	170549	1713220916	TOUFEEQ AHMAD KACHOO	2019-20
46	170588	1713220902	BRIJESH KUMAR	2019-20
47	170589	1713220917	UMESH CHANDRA	2019-20
48	170592	1713220910	PRAVEEN KUMAR	2019-20
49	170706	1713220915	TARUN KUMAR PRABHAKAR	2019-20
50	170731	1713220914	REHAN FAZAL	2019-20
51	170765	1713220903	FAIZAL	2019-20
52	170800	1713220913	REENA GAUTAM	2019-20

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