



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 examinations and career counseling offered by the institutions during the last five years (Institution Level)				
Expert Lecture , Seminar,Workshops and industrial visits (2018-19)				
Sr. No.	Year	Date	Name of Event	Participant
1	2018-19	24 th -28 th September, 2018	Workshop on Arduino and Its Applications	115
2	2018-19	30 th October, 2018	Expert Talk on "Game Theory	140
3	2018-19	7 th January, 2019	expert talk on "Machine Learning in Healthcare"	107
4	2018-19	28 th January, 2019	expert talk on "LabView & It's application in industrial automation	259
5	2018-19	14 Feb, 2019	Signal Processing Approach for Brain Computer Interface	260
6	2018-19	23.11.2018	"GOOD RESEARCH & INNOVATION PRACTICES"	65
7	2018-19	18-Sep-18	Online Repository of Start-ups Developed	84
8	2018-19	14 th Sep, 2018	IMD DATACENTER DELHI	30
9	2018-19	24 th Oct, 2018	expert talk on data analytics	60
10	2018-19	14 th March, 2019	machine learning	85
11	2018-19	23-08-2018	Material Testing Lab	13
12	2018-19	17-09-2018	Indian Culture and Women Empowerment	17
13	2018-19	10/28/2018	Visit to Generator Room	17
14	2018-19	05.05.2019	solid works workshop by ducat	33
15	2018-19	25.07.2018	Bridge Strengthening Advanced Composite System	61
16	2018-19	21.09.2018	Earthquake Resistant Techniques	135
17	2018-19	19-Sep-18	"taguchi technique for quality engineering	43
18	2018-19	26-Sep-18	"Composite fabrication via novel friction stir processing technique	40
19	2018-19	24-Oct-18	"Design innovation: ideation to realization"	30
20	2018-19	15-Feb-19	"Hybird machining "	56
21	2018-19	14 July -18	GATE CLASSES FOR CSE, IT, EC, EE, CE AND ME Department	679



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

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Ref: - No. GNIOT/ECE/ODD/Events/01

Date: 18.09.2018

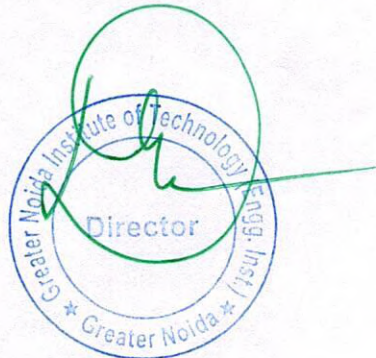
NOTICE

This is to inform the 2nd & 3rd year students that as per the academic calendar the department are organizing one week workshop for the current semester, continuing the same practice you all are informed that one week workshop is being organized on hands on training on "Arduino and it's Applications" from 24th September 2018 to 28th September 2018.

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

Dr. Shelly Garg

HOD, ECE



Report

Event Name: Arduino and Its Applications

Date: 24th -28th September, 2018

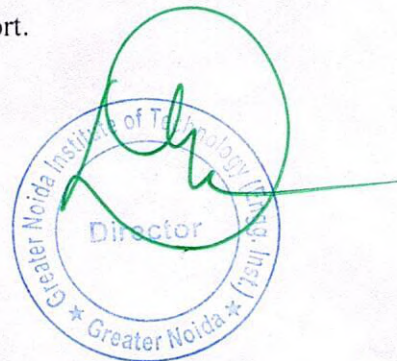
Resource Person: Mr. Vikas Singhal

Department of ECE in association with GNIOT GNIX club organized a workshop on actions "Arduino and Its Applications" on 24th -28th September, 2018 from 1:30 PM onwards in Seminar hall, 1st floor. Mr. Vikas Singhal, Professor, Bennett University was invited as the eminent speaker. Around 50 students of 2nd and 3rd year (BTech ECE) participated in the event, which also created a tech environment in the department. The event started with the lamp lighting ceremony by the Dr. Rohi Garg, Director, Mr. Vikas Singhal (Expert Speaker), Dr. SHELLY GARG (HOD ECE), and the faculty members.

At first, . Dr Rakhi Bhardwaj interacted with the students and highlighted the importance of the field of microcontrollers, Mr. Vikas Singhal delivered a presentation on "Arduino and Its Applications" where he discussed the basics of microcontrollers, Arduino and its applications projects. He also discussed his projects and explained very well in real time applications.

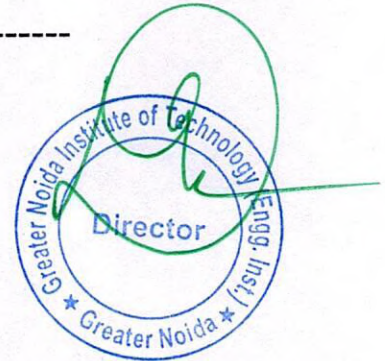
Mr. Vikas Singhal discussed various iot- based projects in the presentation with hands on projects. The presentation concluded with the discussion of future work which students can carry out in their research. The Event was backed -up from the participant end with an interactive Question and Answer session. The event came to end with a vote of thanks which was given by Dr sShelly Garg.

We would like to extend a heartfelt thanks to GNIOT Management and Dr. Rohit Garg, Director, for giving us the opportunity to organize this event.. We're also thankful to Dr. Shelly Garg (HOD-ECE) for his valuable inputs and necessary support.



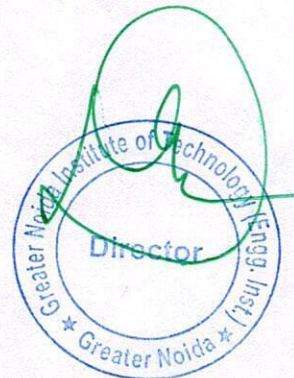
Outcome of the Program

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 gained experience of how the Innovation activities are executed.
4. Students also became aware of the research gaps which exist in the domain of microcontrollers.
5. Students also became aware of the practices to be adopted in order to make their Arduino projects efficient.

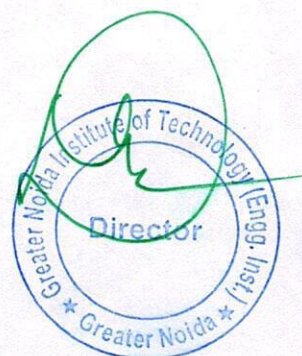


Greater Noida Institute of Technology, Gr. Noida
Electronics & Communication Engineering Department
Student List (EC-2nd Year)

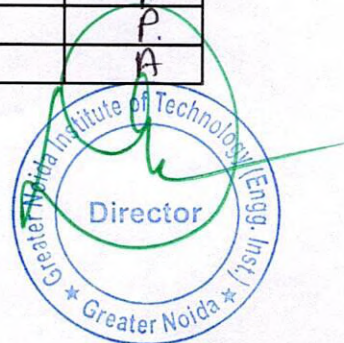
S.No.	Roll No	Student Name	P/A
1	1513231010	ABHISHEK PANDEY	P
2	1513231014	ADITYA CHANDRA	P
3	1513231017	AJIT ALANKAR	A
4	1513231025	AMAR NATH JHA	P
5	1513231034	ANJALI HONEY	P
6	1513231044	ANURAG ANAND	P
7	1513231056	DEEPA VERMA	P
8	1513231060	DEVESH KUMAR JHA	A
9	1513231063	DHARMENDRA YADAV	P
10	1513231080	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	P
16	1513231167	SHREY SINGH	P
17	1513231170	SHUBHAM MISHRA	A
18	1513231173	SHWETANK	A
19	1513231201	VIVEK MAJHWAR	P
20	1613231001	ABHISHEK ANAND	P
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	P
28	1613231009	AKSHANSH KULASARI	P
29	1613231010	ALOK DWIVEDI	A
30	1613231011	AMAN KUMAR PANDEY	P
31	1613231012	AMAN KUMAR SHARMA	A
32	1613231013	AMEY RAJ JAISWAL	P
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37	1613231019	ANKIT KUMAR PANDEY	P
38	1613231020	ANKIT KUMAR SRIVASTAVA	P
39	1613231021	ANMOL UPADHYAY	P
40	1613231023	APRAJITA	P
41	1613231024	ARJU RAJ	P
42	1613231025	ASHISH CHAUHAN	A
43	1613231026	ASHISH KOUNDAL	A
44	1613231027	ASHWINI KUMAR	P
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46	1613231029	AZEEM NAZIM	P
47	1613231030	BIJENDER YADAV	P
48	1613231031	BINITH ROY	P
49	1613231033	DEEPAK SINGH	A
50	1613231034	DEEPAK KUMAR SINGH	P



51	1613231035	DEVESH MAURYA	P
52	1613231036	DIPENDRA KUMAR	P
53	1613231037	DIVYANSHA VATS	A
54	1613231038	FARHEEN SOHAIL	P
55	1613231040	GAURAV KUMAR	P
56	1613231042	HAMZA ANSARI	A
57	1613231043	HARIOM KUMAR	P
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59	1613231045	JAYTI	P
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61	1613231048	KM ZUBI	P
62	1613231049	KRITI SINGH	P
63	1613231050	KUNDAN YADAV	
64	1613231051	MANASH	A
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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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76	1613231064	NITLESH PATEL	P
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104	1613231095	SANJANA KANOJIA	A



105	1613231097	SATISH KUMAR JHA	A
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119	1613231113	SHUBHAM SINGH	P
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122	1613231117	SONI KUMARI	P
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128	1613231124	SWATI KUMARI	P
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130	1613231126	TINKU	A
131	1613231127	UJJWAL KUMAR SINGH	P
132	1613231128	VIKAS SHUKLA	P
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135	1613231131	VIRENDRA SINGH	P
136	1613231132	VIVEK SHARMA	P
137	1613231905	VINEET KUMAR	A
138	1613240064	JITENDRA YADAV	P
139	1713231901	AVANTIKA SINGH	P
140	1713231902	BRIJESH KUMAR	P
141	1713231903	DILER KHAN	P
142	1713231904	PRIYA BHARTI	A





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

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

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

Date: 24.10.2018

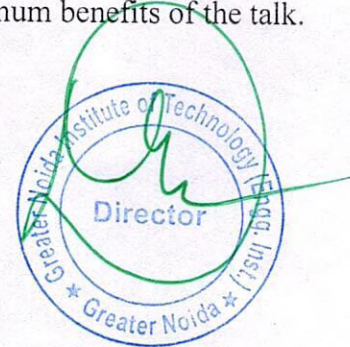
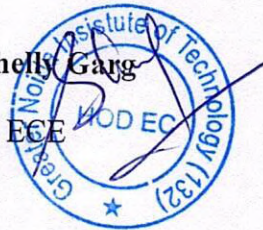
NOTICE

This is to inform the 2nd, 3rd and 4th year students that as per the academic calendar the department are organizing an expert talk for the current semester, continuing the same practice you all are informed that an expert talk is being organized on "Game Theory" from 30th October 2018.

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

Dr. Shelly Garg

HOD, ECE



Report

Event Name: Expert Talk on "Game Theory"

Date: 30th October, 2018

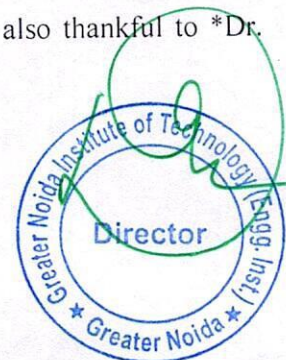
Resource Person: Dr. S. D. Mahapatra (Associate Professor, Manipal University Jaipur)

Department of ECE organized an expert talk on "Game Theory" on 30th October, 2018 from 11:30 AM onwards in Seminar hall, 1st floor. Dr. S. D. Mahapatra (Associate Professor, Manipal University, Jaipur) was invited as the eminent speaker. Around 50 students of 2nd and 3rd year (BTech ECE) participated in the event, which also created a tech environment in the department. The event started with the lamp lighting ceremony by the Dr. Rohit Garg, Director, Dr. S. D. Mahapatra (Expert Speaker), Dr. Shelly Garg (HOD ECE), and the faculty members.

At first, Dr. Rakhi Bhardwaj interacted with the students and highlighted the importance of Game Theory. Afterwards, Dr. S. D. Mahapatra delivered a presentation on "Game Theory" where he discussed the basics of game theory and Solutions for the Internet of Things. Emerging Research and Opportunities examines the latest strategies for the management of IOT systems and the application of theoretical models to enhance real-world applications and improve system efficiency. Highlighting innovative algorithms and methods, as well as coverage on cloud computing, cross-domain applications, and energy control.

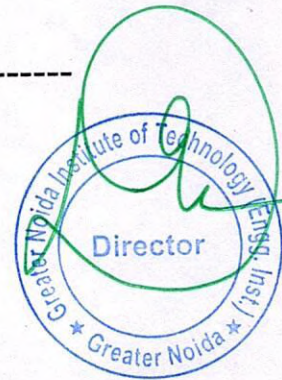
Dr. S. D. Mahapatra discussed various IoT-based projects in the presentation. The presentation concluded with the discussion of future work which students can carry out in their research. The Event was backed up from the participant end with an interactive Question and Answer session. The event came to end with a vote of thanks which was given by Dr. Shelly Garg.

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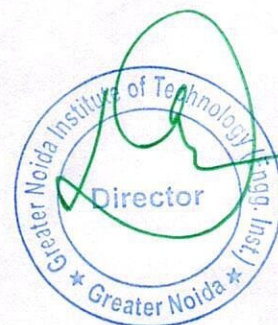
Outcome of the Program

1. Students get to know the various innovative projects that they can opt for in their semester.
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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.

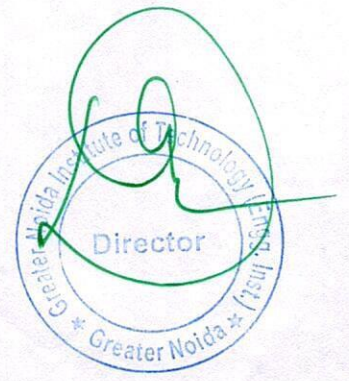


Greater Noida Institute of Technology, Gr. Noida
Electronics & Communication Engineering Department
Student List (EC FINAL YEAR)2018-19

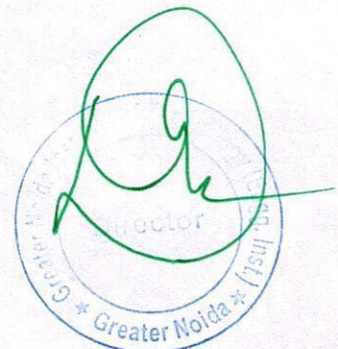
S.No.	UPTU Roll No	Student Name	P/A
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2	1413231001	AALIYA MISBAH	P
3	1413231011	ADITYA NARAYAN SRIVASTAVA	P
4	1413231020	ANKUR ARUN SINGH	P
5	1413231040	GYAN PRAKASH	P
6	1413231060	NADEEM ALI	P
7	1413231061	NAVEEN SINGH	P
8	1413231069	NITISH KUMAR	P
9	1413231079	PRASHANT KUMAR	P
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	P
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
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22	1513231008	ABHISHEK KUMAR	P
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25	1513231012	ABHISHEK SINGH	P
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	P
33	1513231026	AMBER RAJ	P
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46	1513231043	ANUPAM VERMA	P
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50	1513231048	ASHISH KUMAR AVINASH	P
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54	1513231053	CHANDAN JHA	P
55	1513231054	CHANDAN KUMAR	P
56	1513231057	DEEPAK KUMAR	P



57	1513231058	DEEPAK KUMAR TIWARI	A
58	1513231059	DEEPSHREE	P
59	1513231061	DEV NATH YADAV	P
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63	1513231068	ESHITA JAISWAL	P
64	1513231071	GAURAV KUMAR	P
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66	1513231073	HASAN IMAM	A
67	1513231074	HIMANSHU GUPTA	P
68	1513231075	HIMANSHU NAUTIYAL	P
69	1513231076	IQARAR AHEMAD	P
70	1513231077	IRSHITA	P
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72	1513231079	KAJAL	A
73	1513231081	KAUSAR PARWEEN	D
74	1513231082	KAUSHAL SINGH	D
75	1513231083	KM ARCHANA SONKER	D
76	1513231085	KOMAL BHARTI	D
77	1513231086	KULDEEP SINGH	D
78	1513231087	KUMAR KISHLAY	D
79	1513231088	KUMARI PALAK	D
80	1513231089	KUNAL PRIYADARSHI	D
81	1513231092	MANIKANT KUMAR	D
82	1513231093	MANIKARNIKA RANI	D
83	1513231094	MANISH KUMAR PANDEY	D
84	1513231095	MANISH RANJAN	D
85	1513231096	MANORMA PAL	D
86	1513231098	MD ASIF RASHID	D
87	1513231102	MOHAMMAD SHARIQ	D
88	1513231103	MOHD SAJID KHAN	D
89	1513231107	NAVDEEP SRIVASTAV	D
90	1513231108	NAVNEET KUMAR SINGH	D
91	1513231110	NEERAJ DIXIT	D
92	1513231111	NIGAM KUMAR	D
93	1513231112	NISHA SINGH	D
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102	1513231123	PRASHANT SINGH MAHARA	D
103	1513231124	PRATIK KUMAR	D
104	1513231125	PRATIK MISHRA	D
105	1513231127	PRATYUSH GAUTAM	D
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107	1513231131	RAHAT ALI KHAN	D
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174	1581031017	UDAY BANDRAL	P
175	1613231904	MD SOHRAB ALAM	P
176	1681031901	ABHISHEK RANJAN	A





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

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

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

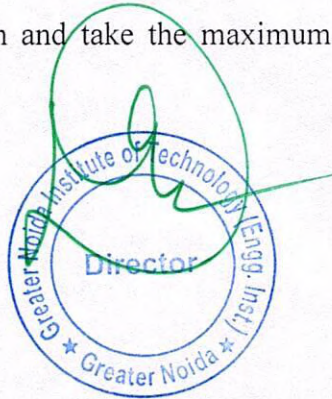
Date: 03.01.2018

NOTICE

This is to inform the 2nd, 3rd and 4th year students that as per the academic calendar the department are organizing an expert talk for the current semester, continuing the same practice you all are informed that an expert talk is being organized on "MACHINE LEARNING IN HEALTHCARE" from 7th January 2018.

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

Dr. Shelly Gang
HOD, ECE



Report

Event Name: Machine Learning in Healthcare

Date: 7th January, 2019

Resource Person: Dr. S. S. Sahu, Postdoc from Oklahoma State University, USA

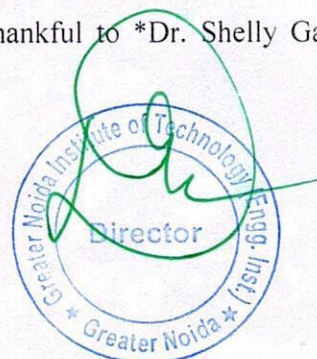
Department of ECE in association with GNIOT GNIX CLUB organized an expert talk on "Machine Learning in Healthcare" on 7th January, 2018 from 10:30 AM onwards in Seminar hall, 1st floor. Dr. S. S. Sahu, Postdoc from Oklahoma State University, USA, was invited as the eminent speaker. Around 70 students of 2nd and 3rd year (B.Tech ECE) participated in the event, which also created a tech environment in the department. The event started with the lamp lighting ceremony by the Dr. Rohit Garg, Director, Dr. S. S. Sahu (Expert Speaker), Dr. Shelly Garg (HOD ECE), and the faculty members.

At first, Dr. Anil kr Dubey, interacted with the students and highlighted the importance of Machine Learning. Afterwards, Dr. S. S. Sahu delivered a presentation on "Machine Learning in Healthcare" where he provided an insight about various ML algorithms in the field of Human Machine Interface (HMI) using Bio-signal.

The Resource Person of lecture was Dr. S. S. Sahu, Postdoc from Oklahoma State University, USA, an active reviewer in many reputed journals & currently working as Associate Prof. at Birla Institute of Technology, MESRA, Ranchi.

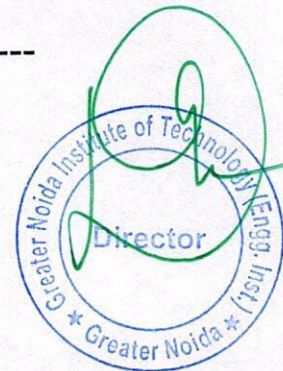
He started his session with Introduction on ML, its classification & the importance of ML application in Healthcare. Finally, concluded his talk with application of ML algorithms in the field of Human Machine interface using Bio-signal. The event was backed-up from the participant end with an interactive Question and Answer session. The event came to end with a vote of thanks which was given by Dr. Shelly Garg.

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



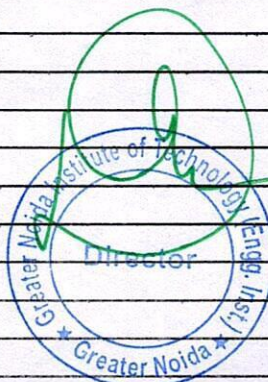
Outcome of the Program

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 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.

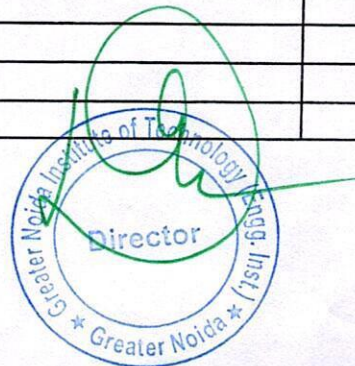


Greater Noida Institute of Technology, Gr. Noida
Electronics & Communication Engineering Department
Student List (EC-3RD YEAR)2018-19

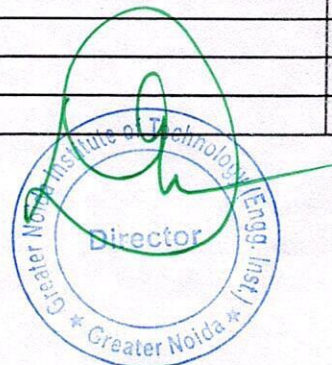
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2	1513231014	ADITYA CHANDRA	A
3	1513231017	AJIT ALANKAR	P
4	1513231025	AMAR NATH JHA	P
5	1513231034	ANJALI HONEY	P
6	1513231044	ANURAG ANAND	P
7	1513231056	DEEPA VERMA	P
8	1513231060	DEVESH KUMAR JHA	P
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14	1513231114	NITIN RAJ	P
15	1513231129	PRAVEEN SINGH	A
16	1513231167	SHREY SINGH	P
17	1513231170	SHUBHAM MISHRA	P
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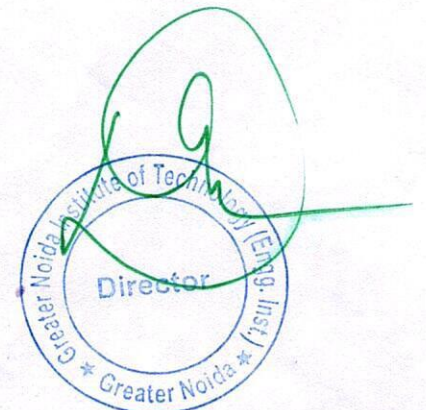


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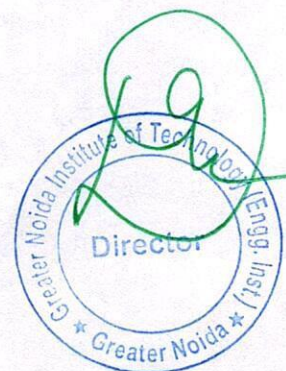


Greater Noida Institute of Technology, Gr. Noida
Electronics & Communication Engineering Department
Student List (EC FINAL YEAR)2018-19

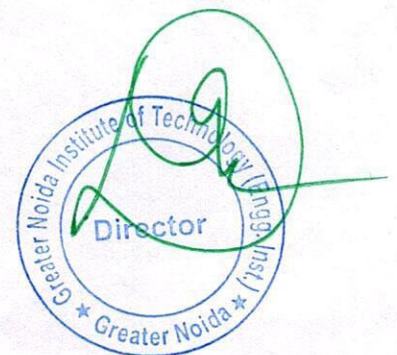
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143	1513231177	SONAL SHARMA	A
144	1513231178	SONU KUMAR	A
145	1513231180	SRIDHI CHATURVEDI	A
146	1513231181	SRIJA	A
147	1513231182	SUDHAKAR RANJAN	A
148	1513231183	SUMAN KUMAR SINGH	A
149	1513231184	SUMIT CHAUHAN	A
150	1513231185	SURAJ SINGH	A
151	1513231186	SURYAKANT BISHT	A
152	1513231187	TANU SINGH KASHYAP	A
153	1513231188	TARUN SRIVASTAV	A
154	1513231189	TUSHA SINGH	A
155	1513231191	UJJWAL AKASH	A
156	1513231192	VARTIKA SRIVASTAVA	A
157	1513231193	VEDANT KUMAR SINGH	A
158	1513231195	VIKRAM SOLANKI	A
159	1513231197	VISHAL DUBEY	A
160	1513231199	VISHAL SINGH	A
161	1513231200	VISHWAJIT KUMAR TIWARI	A
162	1513231202	YASH KUMAR	A
163	1513231203	YASHVARDHAN SHUKLA	A
164	1513231903	RAVINDER	A
165	1581031003	ANKITA NARAYAN RAI	A
166	1581031005	BHAGIRATH KUMAR	A
167	1581031006	JITENDRA KUMAR	A
168	1581031007	KARUNA GAUR	A
169	1581031009	MD ABULAISH ANSARI	A
170	1581031010	MEGHA KUMARI	A
171	1581031011	MUNEER KHAN	A
172	1581031012	NASEEM AHMAD	A
173	1581031015	ROHIT KUMAR	A
174	1581031017	UDAY BANDRAL	A
175	1613231904	MD SOHRAB ALAM	A
176	1681031901	ABHISHEK RANJAN	A





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

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Ref: - No. GNIOT/ECE/EVEN/Events/04

Date: 23.01.2019

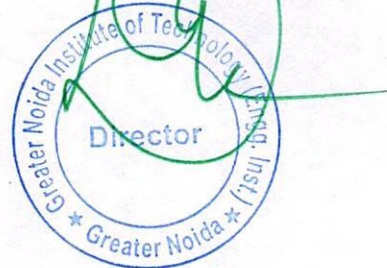
NOTICE

This is to inform the 2nd, 3rd and 4th year students that as per the academic calendar the department are organizing one week workshop for the current semester, continuing the same practice you all are informed that one week workshop is being organized on "LAB-VIEW & IT'S APPLICATION IN INDUSTRIAL AUTOMATION" from 28th January 2019.

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

Dr. Shelly Garg

HOD, ECE



Report

Event Name: Lab View & It's Application In Industrial Automation

Date: 28th January, 2019

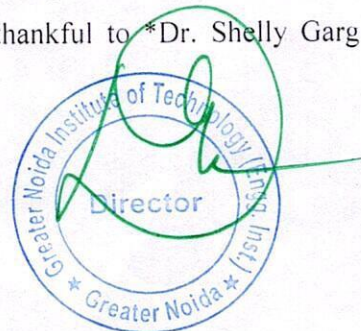
Resource Person: Mr. Anirudh K. Gautam

Department of ECE in association with GNIOT GNIX CLUB organized an expert talk on "LabView & It's application in industrial automation" on 28th January, 2019 from 10:30 AM onwards in Seminar hall, 1st floor. Mr. Anirudh K. Gautam, a certified Labview developer from National instruments, USA and Founder of Enggimatix solutions (P) Ltd was invited as the eminent speaker. Around 65 students of 2nd, 3rd year and 4th (BTech ECE) participated in the event, which also created a tech environment in the department. The event started with the lamp lighting ceremony by the Dr. Rohit Garg, Director, Mr. Anirudh K. Gautam (Expert Speaker), Dr. Shelly Garg (HOD ECE), and the faculty members.

At first, . Dr Annil dubey , interacted with the students and highlighted the importance of IIC. Afterwards, Mr. Anirudh K. Gautam delivered a presentation on "LabView & It's application in industrial automation" where he discussed the with an overview on Labview & ended with application of Labview in various fields such as IOT, cyber security, industry 4.0 & industrial automation using Labview. He also discussed his research work and explained the an energy efficient algorithm designed by him to fulfill the research gap in the domain.

Mr. Anirudh K. Gautam discussed various automation- based projects in the presentation. The presentation concluded with the discussion of future work which students can carry out in their research. The Event was backed –up from the participant end with an interactive Question and Answer session. The event came to end with a vote of thanks which was given by Dr Shelly Garg.

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



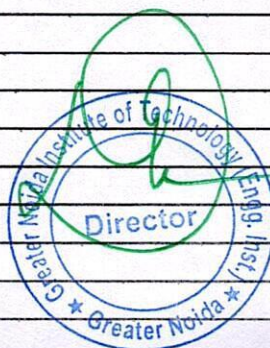
Outcome of the Program

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 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.

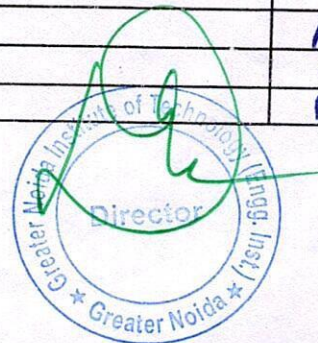


Greater Noida Institute of Technology, Gr. Noida
Electronics & Communication Engineering Department
Student List (EC-3RD YEAR)2018-19

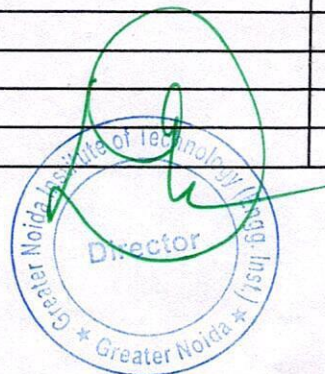
S.No.	UPTU Roll No	Student Name	P/A
1	1513231010	ABHISHEK PANDEY	A
2	1513231014	ADITYA CHANDRA	P
3	1513231017	AJIT ALANKAR	P
4	1513231025	AMAR NATH JHA	P
5	1513231034	ANJALI HONEY	P
6	1513231044	ANURAG ANAND	P
7	1513231056	DEEPA VERMA	P
8	1513231060	DEVESH KUMAR JHA	A
9	1513231063	DHARMENDRA YADAV	P
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	P
16	1513231167	SHREY SINGH	P
17	1513231170	SHUBHAM MISHRA	A
18	1513231173	SHWETANK	P
19	1513231201	VIVEK MAJHWAR	P
20	1613231001	ABHISHEK ANAND	P
21	1613231002	ABHISHEK KUMAR	A
22	1613231003	ABHISHEK KUMAR RAY	A
23	1613231004	ABHISHEK KUMAR SINGH	A
24	1613231005	ABHISHEK YADAV	A
25	1613231006	ADITYA KUMAR VERMA	P
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
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35	1613231016	ANJALI PATHAK	P
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37	1613231019	ANKIT KUMAR PANDEY	P
38	1613231020	ANKIT KUMAR SRIVASTAVA	A
39	1613231021	ANMOL UPADHYAY	P
40	1613231023	APRAJITA	P
41	1613231024	ARJU RAJ	P
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46	1613231029	AZEEM NAZIM	P
47	1613231030	BIJENDER YADAV	P
48	1613231031	BINITH ROY	A
49	1613231033	DEEPAK SINGH	P



50	1613231034	DEEPAK KUMAR SINGH	A
51	1613231035	DEVESH MAURYA	P
52	1613231036	DIPENDRA KUMAR	P
53	1613231037	DIVYANSHA VATS	A
54	1613231038	FARHEEN SOHAIL	P
55	1613231040	GAURAV KUMAR	P
56	1613231042	HAMZA ANSARI	P
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60	1613231046	KARTIKEY ANAND	A
61	1613231048	KM ZUBI	A
62	1613231049	KRITI SINGH	A
63	1613231050	KUNDAN YADAV	P
64	1613231051	MANASH	P
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71	1613231059	MOHD AMZAD KHAN	P
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73	1613231061	NEHA KUMARI	A
74	1613231062	NISHANT KUMAR	P
75	1613231063	NITISH KUMAR GIRI	A
76	1613231064	NITLISH PATEL	A
77	1613231065	PANKAJ KUMAR PANDEY	P
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79	1613231067	PIYUSH SINGH	P
80	1613231068	PRAKASH KUMAR	P
81	1613231070	PRANJAL ASTHANA	P
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83	1613231072	PRATYNCHA PRACHI	A
84	1613231074	PREM KUMAR	P
85	1613231075	PRITESH KUMAR	P
86	1613231076	PRIYA RANJAN KUMAR	A
87	1613231077	RAHUL RAJ	P
88	1613231078	RAHUL KUMAR RANJAN	P
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90	1613231080	RAJESH KUMAR	P
91	1613231081	RAJU	P
92	1613231082	RAM GOPAL	P
93	1613231083	RAVI RAUSHAN	P
94	1613231084	RINAL AKSH	A
95	1613231085	RITESH KUMAR	P
96	1613231086	RIYA CHAUDHARY	P



97	1613231087	RIYA SINHA	A
98	1613231088	ROHIT KUMAR	P
99	1613231089	ROHIT KUMAR	P
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101	1613231092	SAKSHI RATURI	P
102	1613231093	SAMIR KUMAR	P
103	1613231094	SANDEEP KUMAR	A
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105	1613231097	SATISH KUMAR JHA	P
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108	1613231100	SAURAV KARMAKAR	A
109	1613231101	SHAHNAWAZ ALAM	P
110	1613231102	SHAHRUKH ANSARI	P
111	1613231104	SHANI KUMAR MAURYA	P
112	1613231106	SHIVANI GARG	P
113	1613231107	SHOBHIT VERMA	A
114	1613231108	SHRADHA SINGH	A
115	1613231109	SHRAWAN KUMAR	A
116	1613231110	SHREYASHI SEKHAR	P
117	1613231111	SHUBHAM	P
118	1613231112	SHUBHAM RAJ	P
119	1613231113	SHUBHAM SINGH	P
120	1613231115	SWETA RANI	P
121	1613231116	SMIT KANJARIYA	P
122	1613231117	SONI KUMARI	P
123	1613231118	SONI KUMARI	P
124	1613231119	SOURABH CHAKRABARTY	A
125	1613231120	SUDHANSHU BHARDWAJ	P
126	1613231122	SUSHANT TIWARI	P
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128	1613231124	SWATI KUMARI	P
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131	1613231127	UJJWAL KUMAR SINGH	A
132	1613231128	VIKAS SHUKLA	P
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139	1713231901	AVANTIKA SINGH	A
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141	1713231903	DILER KHAN	P
142	1713231904	PRIYA BHARTI	P

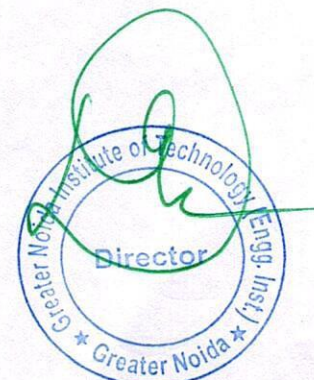


Greater Noida Institute of Technology, Gr. Noida
Electronics & Communication Engineering Department
Student List (EC FINAL YEAR)2018-19

S.No.	UPTU Roll No	Student Name	P/A
1	1313231126	RAJA RAJESH	A.
2	1413231001	AALIYA MISBAH	P
3	1413231011	ADITYA NARAYAN SRIVASTAVA	P
4	1413231020	ANKUR ARUN SINGH	P
5	1413231040	GYAN PRAKASH	P
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7	1413231061	NAVEEN SINGH	P
8	1413231069	NITISH KUMAR	P
9	1413231079	PRASHANT KUMAR	P
10	1413231095	REWA SHANKAR YADAV	A
11	1413231110	SANDEEP KUMAR	A
12	1413231119	SAURAV NITI	P
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161	1513231200	VISHWAJIT KUMAR TIWARI	P
162	1513231202	YASH KUMAR	P
163	1513231203	YASHVARDHAN SHUKLA	A
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165	1581031003	ANKITA NARAYAN RAI	P
166	1581031005	BHAGIRATH KUMAR	P
167	1581031006	JITENDRA KUMAR	P
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174	1581031017	UDAY BANDRAL	P
175	1613231904	MD SOHRAB ALAM	P
176	1681031901	ABHISHEK RANJAN	P





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

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Ref: - No. GNIOT/ECE/EVEN/Events/05

Date: 8.02.2019

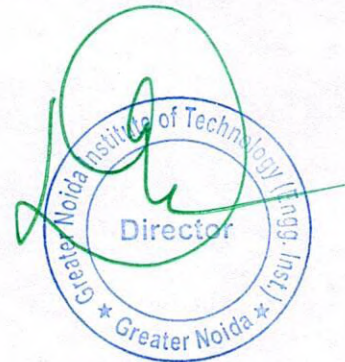
NOTICE

This is to inform the 2nd and 3rd year students that as per the academic calendar the department are organizing an expert lecture for the current semester, continuing the same practice you all are informed that an expert lecture is being organized on "Signal Processing Approach for Brain Computer Interface" from 14th February 2019.

The students are requested to Present in full strength and take the maximum benefits of the expert lecture.

Dr. Shelly Garg

HOD, ECE



Report

Event Name: Signal Processing Approach for Brain Computer Interface

Date: 14 Feb, 2019

Resource Person: Dr. Rishi Raj Sharma

Department of ECE in association with GNIX GNIOT Technical club organized an expert talk on "signal processing approach for Brain computer Interface" Dr. Rishi Raj Sharma, Assistant professor, Defence institute of advanced technology DRDO, Pune, India was invited as the eminent speaker. Around 70 students of 2nd and 3rd year (BTech ECE) participated in the event, which also created a tech environment in the department The event started with the lamp lighting ceremony by the Dr.Rohit Garg, Director, Dr. Rishi Raj Sharma (Expert Speaker), Dr. Shelly Garg (HOD ECE), and the faculty members.

At first, Dr Anil Dubey interacted with the students and highlighted the importance of IIC. Afterwards, Dr. Rishi Raj Sharma delivered a research and every aspect where students can impose this technique in projects as it is the era of artificial intelligence where automation has key importance. He also discussed his research work and explained an energy efficient algorithm designed by him to fulfill the research gap in the domain.

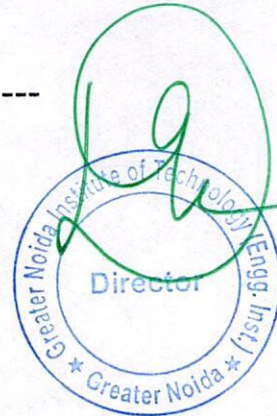
Dr. Rishi Raj Sharma discussed various iot- based projects in the presentation. The presentation concluded with the discussion of future work which students can carry out in their research. The Event was backed –up from the participant end with an interactive Question and Answer session. The event came to end with a vote of thanks which was given by Dr Shelly Garg.

We would like to extend a heartfelt thanks to GNIOT Management and Dr.Rohit Garg, Director, for giving us the opportunity to organize this event. A special thanks to Dr. Anil Dubey 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 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-3RD YEAR)2018-19

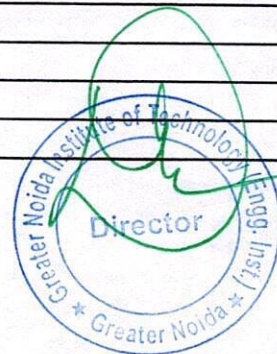
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2	1513231014	ADITYA CHANDRA	P
3	1513231017	AJIT ALANKAR	P
4	1513231025	AMAR NATH JHA	P
5	1513231034	ANJALI HONEY	P
6	1513231044	ANURAG ANAND	P
7	1513231056	DEEPA VERMA	A
8	1513231060	DEVESH KUMAR JHA	P
9	1513231063	DHARMENDRA YADAV	P
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11	1513231091	MAHMOOD ALI	P
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13	1513231106	NANDAN	P
14	1513231114	NITIN RAJ	A
15	1513231129	PRAVEEN SINGH	P
16	1513231167	SHREY SINGH	P
17	1513231170	SHUBHAM MISHRA	P
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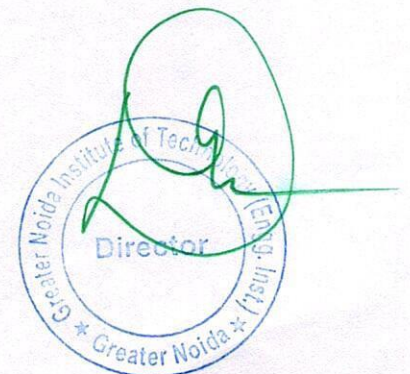


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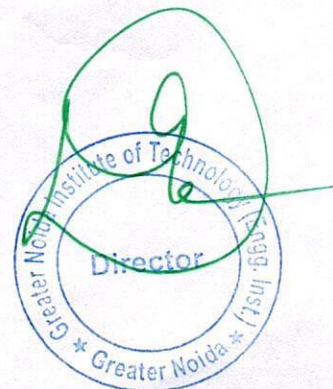


Greater Noida Institute of Technology, Gr. Noida
Electronics & Communication Engineering Department
Student List (EC FINAL YEAR)2018-19

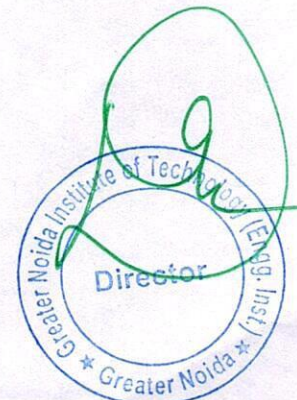
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DEPARTMENT OF INFORMATION TECHNOLOGY

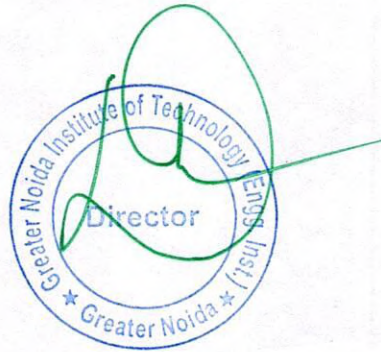
Ref: - No. GNIOT/IT/ODD/Events/05

Date: 19.11.2018

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, " GUEST LECTURE" ON THE TOPIC "GOOD RESEARCH & INNOVATION PRACTICES" is scheduled on 23.11.2018 from 3:15 - 5:00 PM.

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



Dr. Manoj Singhal

HOD-IT

GUEST LECTURE

ON

"GOOD RESEARCH & INNOVATION PRACTICES"

23 NOVEMBER 2018
(03:15 PM to 05:00 PM)

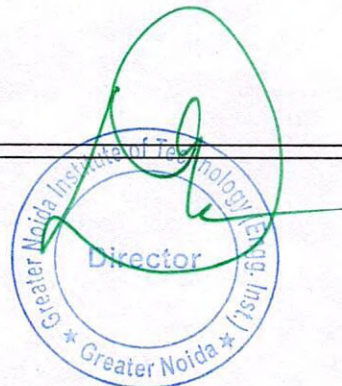
Organized by



Institution's Innovation Council

**Greater Noida Institute of
Technology (GNIOT)**

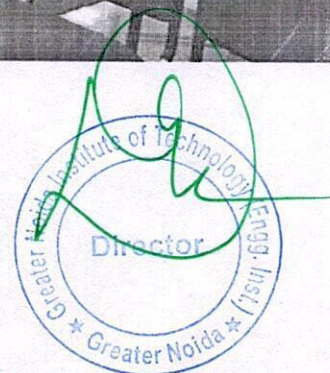
(An Initiative of Ministry of Education, Govt. of India)
Knowledge park-II, Greater Noida- 201308
www.gniot.net.in



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.

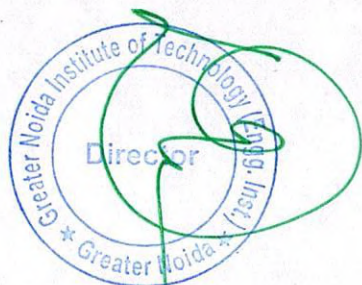


GREATER NOIDA INSTITUTE OF TECHNOLOGY, GREATER NOIDA

Attendance of Good Research and Innovation Practices (23.11.2018)

S. No.	Name of the Student	Year & Section	Attendance
1	SHAIENDRA KUMAR	3A	P
2	RAHUL MAURYA	3A	P
3	NISHANT KUMAR SINGH	3A	P
4	SHUBHAM CHANDRA	3A	P
5	ETU GUPTA	3A	P
6	TANUJ SHARMA	3A	P
7	ALFISHA JAFRI	3A	A
8	LALIT KUMAR	3A	P
9	SHIVAM SRIVASTAVA	3A	P
10	VIKAS SINGH	3A	A
11	SHREYA SINGH	3A	P
12	ANSHIKA GUPTA	3A	A
13	SURAJ MAURYA	3A	A
14	ABHISHEK TYAGI	3A	P
15	SAURABH AHLAWAT	3A	P
16	RICHA BHARDWAJ	3A	P
17	SANJEEV KUMAR	3A	P
18	DIVYANSHU SHUKLA	3A	P

S. No.	Name of the Student	Year & Section	Attendance
1	PRIYA SHARMA	3B	P
2	JITIN GUPTA	3B	P
3	MAHIMA VERMA	3B	P
4	ANKUR SINGH	3B	P
5	GAURAV SINGH	3B	P
6	RAJAT SINGHAL	3B	P
7	SACHIN KUMAR SINGH	3B	P
8	KUMAR ABHIJEET	3B	P
9	MUKUL SHARMA	3B	P
10	MUSKAN VERMA	3B	P
11	ENSRAMUL HAQ KHAN	3B	P
12	CHIRANJEEWEE SINGH	3B	P
13	SURENDRA VISHVAKARMA	3B	P
14	AYUSHI PATHAK	3B	P
15	SAMYAK JAIN	3B	P
16	POOJAK GUPTA	3B	P
17	JYOT PRAKASH MISHRA	3B	P

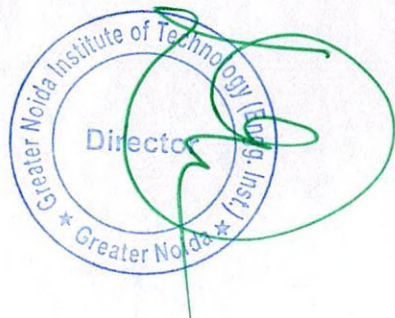


Signature of HOD
Dr. Manoj Singhal

GREATER NOIDA INSTITUTE OF TECHNOLOGY, GREATER NOIDA

Attendance of Good Research and Innovation Practices (23.11.2018)

S. No.	Name of the Student	Year & Section	Attendance	S. No.	Name of the Student	Year & Section	Attendance
1	ABHISHEK SHARMA	2A	P	1	AKASH AGRAWAL	2B	P
2	SHIVANGI KUMARI	2A	P	2	PRASHANT SHEKHAR	2B	P
3	DEEPALI GAUR	2A	P	3	MOHD ASIF	2B	P
4	ASIF CHAUDHARY	2A	P	4	DEEPAK KUMAR MANDAL	2B	P
5	SMRITI KUMARI	2A	A	5	AMRIT CHATURVEDI	2B	A
6	HARSH THAKUR	2A	P	6	ANUSHA PASTOR	2B	A
7	NIMIT KUMAR	2A	P	7	ARUN BAGHEL	2B	P
8	ANKUR NIGAM	2A	A	8	NEERAJ KUMAR	2B	P
9	JASH GHOSH	2A	P	9	DIKSHA SAGWAL	2B	P
10	SOURAV TIWARI	2A	P	10	PINTU KUMAR	2B	P
11	MONIKA SINGH	2A	P	11	SHARAD KUMAR	2B	P
12	DEEPAK KUMAR	2A	A	12	ABHISHEK CHAUHAN	2B	P
13	SUNNY KUMAR	2A	P	13	DIPANKAR OJHA	2B	P
14	RAHUL KUMAR	2A	P	14	ANKIT RAJ	2B	P
15	ASHUTOSH KUMAR SINGH	2A	P	15	RAKESH KUMAR	2B	P
16	RAJESH KUMAR GUPTA	2A	P	16	RAVI SHANKAR KUMAR	2B	P
17	NEHA SHARMA	2A	P	17	SUMIT RAJ	2B	P
18	SHIV KUMAR	2A	P	18	SUSHMITA SINHA	2B	P
19	JAYESH RAJ	2A	P	19	SONAL GUPTA	2B	P
20	MD ASFAND NOOR	2A	P				



Signature of HOD
Dr. Manoj Singhal

*Expert Lecture
on*

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

**18 September 2018
(11:00 AM to 12:00 Noon)**

Organized by



**INSTITUTION'S
INNOVATION
COUNCIL**
Ministry of Education, Govt. of India

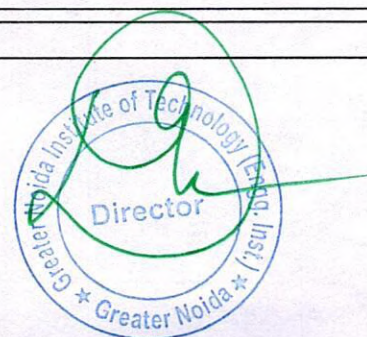


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DEPARTMENT OF INFORMATION TECHNOLOGY

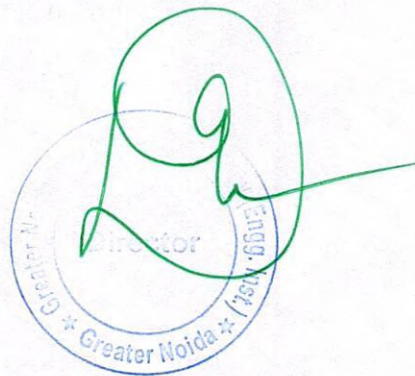
Ref: - No. GNIOT/IT/Even/Events/02

Date: 17.09.2018

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 18.09.2018 from 11:00 AM - 12:00 PM.

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



The stamp is circular with the text "Greater Noida * Enng. Inst." around the perimeter and "Director" in the center.

Dr. Manoj Singhal

HOD-IT

*Expert Lecture
on*

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

18 September 2018
(11:00 AM to 12:00 Noon)

PROGRAMME REPORT

Organized by



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(An Initiative of Ministry of Education, Govt. of India)

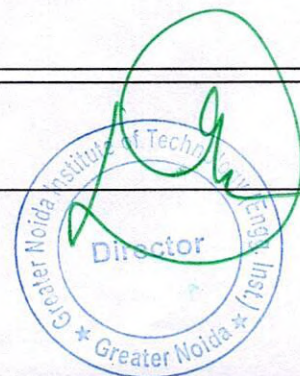


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COURSE No. & TITLE:

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

PARTICIPANTS:

All IT Engineering Students & Faculty members

OBJECTIVES:

- To help the students to incubate the idea and to turn it into a startup
- To enrich the participants with the Developing Online Repository of Start-ups
- To provide pointers to entrepreneurs and to guide them how to get information and Way Forward Plans

Expert:

DR. PRAKASH KUMAR

- The resource person of this session was DR. PRAKASH KUMAR associate professor & associate dean of students.

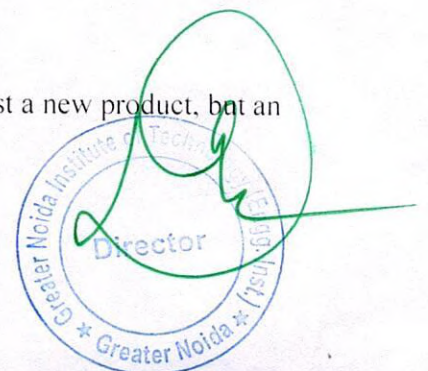
Profile of the Expert



- DR. PRAKASH KUMAR graduated from B.E (ECE), NAGPUR UNIVERSITY, and NAGPUR. He had M.Tech.(COMPUTER SCIENCE AND TECHNOLOGY), IIT, ROORKEE PH D (COMPUTER SCIENCE AND ENGINEERING) Faculty Advisor, Jaypee Youth Club, Noida(JYC), and had been an active member of various disciplinary committees.

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”





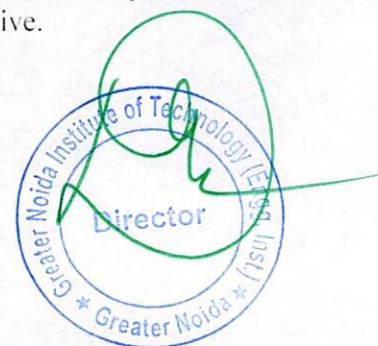
Department of Information Technology is organized a session on “Developing Online Repository of Start-ups Developed/incubated and Way forward Plan” in association with Institute’s Innovation Council (IIC) on 18th September, 2018 from 11:00 am to 12:00 pm.

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.

Dr. Prakash Kumar 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.

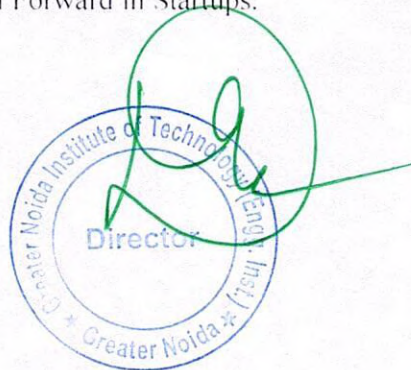




The anchor of the session was Ms. Aarti, IT 3rd Year Student. The program was concluded by vote of Thanks by Ms. Shipra srivastav, Assistant Professor IT. The session was attended by more than 60 students and all faculty members of IT.

Outcome of the Program

1. Students gained experience of how the access Online Repository of Startups and Incubation.
2. It helped in enhancing innovative skills.
3. Participants got clear idea about how to develop online Repository of Start-ups and how to plan Forward in Startups.

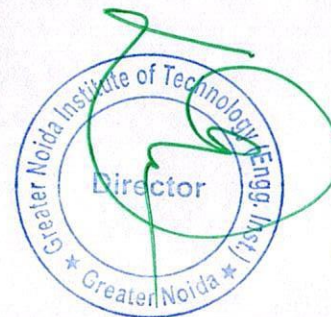


GREATER NOIDA INSTITUTE OF TECHNOLOGY, GREATER NOIDA

Attendance of Developing Online Repository of Start-ups Developed/Incubated and Way Forward Plan (18.09.2018)

S. No.	Name of the Student	Year &	Attendance
1	ABHIJEET PANDEY	3A	P
2	ALISHA PRIYA	3A	P
3	ANU GUPTA	3A	P
4	APARNA GUPTA	3A	P
5	APOORV CHAUHAN	3A	P
6	ASHUTOSH KUMAR	3A	P
7	AVINASH ARYA	3A	P
8	AYUSHI BAJPAI	3A	P
9	CHANDAN SINGH	3A	P
10	DEEPAK KUMAR	3A	P
11	DEVESH VERMA	3A	A
12	DIVYANSHU SHARMA	3A	P
13	DIWID KUMAR SINGH	3A	P
14	GAUTAM KUMAR	3A	P
15	JAGRITI AGGARWAL	3A	P
16	KASHIF HASHMI	3A	P
17	KM ALBINA IQBAL	3A	A
18	MANISHA ARORA	3A	A
19	MAYAN MISHRA	3A	P
20	MOHD WASEEM	3A	P
21	MUKUL DEV	3A	P
22	NEHA KUMARI	3A	P
23	NOOPUR SRIVASTAVA	3A	P
24	PALAK BANSAL	3A	A
25	PAYAL TYAGI	3A	A
26	PRERNA TYAGI	3A	A
27	PRIYANKA RANA	3A	P
28	RAHUL KUMAR GUPTA	3A	P
29	RAHUL NAGAR	3A	P
30	RAJESH KUMAR	3A	P

S. No.	Name of the Student	Year &	Attendance
1	ROHAN KUMAR	3B	P
2	ROHIT KUMAR SINGH	3B	P
3	ROHIT SINGH	3B	P
4	ROHIT SINGH BISHT	3B	P
5	SHIKHA KUMARI	3B	P
6	SHRUTI SHREYA	3B	P
7	SHRUTI SINGH	3B	P
8	SHYAM JEE SINGH	3B	P
9	SURENDRA PRATAP	3B	P
10	TANYA SAPRA	3B	P
11	TULIKA GARG	3B	P
12	VARUN SINGH	3B	P
13	YASHIKA KHURANA	3B	P
14	AAYUSH PESHIN	3B	P
15	ANAND KUMAR MISHRA	3B	P
16	ANMOL PRAKASH SRIVASTAVA	3B	P
17	DHIRENDRA KUMAR SAHU	3B	P
18	KUMAR SHRESHTH	3B	P
19	MD.SHAHRUKH KHAN	3B	P
20	NEHA KAUSHAL	3B	P
21	NITIN BHATI	3B	P

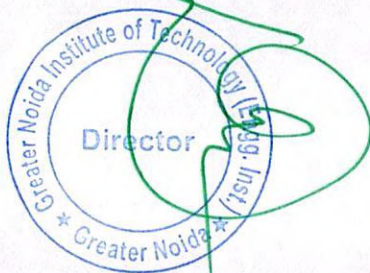


Signature of HOD
Dr. Manoj Singhal

GREATER NOIDA INSTITUTE OF TECHNOLOGY, GREATER NOIDA

Attendance of Developing Online Repository of Start-ups Developed/Incubated and Way Forward Plan (18.09.2018)

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



Signature of HOD
Dr. Manoj Singhal



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

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

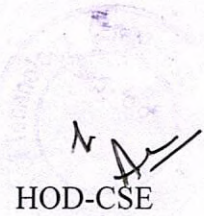
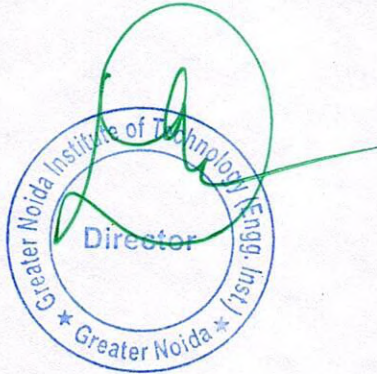
Ref: - No. GNIOT/CSE/ODD/Events/01

Date: 12.09.2018

NOTICE

This is to inform all the students that as per the academic calendar the department are organizing industrial visit for the current semester, continuing the same practice you all are informed that a industrial visit is being organized at "IMD DATACENTER DELHI" on 14th September 2018.

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



(Approved by AICTE, Delhi & Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow)
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☎ 0120-2328214/15/16 | 1800 274 6969 ✉ director@gniot.net.in 🌐 www.gniot.net.in

Industrial Visit
at

“IMD DATA CENTER DELHI”

14th Sep, 2018
(10:00 AM to 01:00 PM)

Organized by
Department of Computer Science and Engineering



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REPORT

An industrial visit to the Indian Meteorological Department Ministry of Earth Sciences for 40 students from B.Tech CSE & MCA was organized by Department of Computer Science Engg GNIOT Gr Noida on 14th September 2018.

During the visit the students were given an exposure on various technologies used in Weather forecasting.

The students explored CHO (Central Hydromet Observatory), SATMET Division (Satellite Meteorology) & Center for Seismology.

Also the students were given a thorough tour of the IMD Datacenter where they were apprised of the IMD IT infrastructure & the technologies used for Data Acquisition & Data Analysis.



SNo.	**Univ.Roll	**Class	**Name	Attendance for Event
1	1413210027	CS 4 Year	AMIT KUMAR YADAV	P
2	1413210046	CS 4 Year	BHAVYA WADHWA	P
3	1413210107	CS 4 Year	PRINCE RAJ	P
4	1413210159	CS 4 Year	SHWETA SUMAN	A
5	1513210001	CS 4 Year	ABDUL MANNAN ANSARI	A
6	1513210002	CS 4 Year	ABHIJEET BALIYAN	A
7	1513210004	CS 4 Year	ABHINAV YADAV	A
8	1513210006	CS 4 Year	ABHISHEK KUMAR YADAV	A
9	1513210007	CS 4 Year	ABHISHEK RAJ	P
10	1513210008	CS 4 Year	ADARSH KUMAR SINGH	P
11	1513210009	CS 4 Year	ADEEBA SHAREEF	P
12	1513210010	CS 4 Year	ADITYA CHAUHAN	A
13	1513210011	CS 4 Year	ADITYA SINGH	A
14	1513210012	CS 4 Year	ADITYA SINGH CHAUHAN	P
15	1513210013	CS 4 Year	AFFAN AHMAD	P
16	1513210014	CS 4 Year	AFSHAN ALI	P
17	1513210016	CS 4 Year	AJAY PRATAP SINGH YADAV	P
18	1513210017	CS 4 Year	AKANSHA CHAUKIYAL	A
19	1513210018	CS 4 Year	AKASH RAJ	P
20	1513210020	CS 4 Year	AKSHAY JADLI	P
21	1513210023	CS 4 Year	AMAN KUMAR	P
22	1513210024	CS 4 Year	AMAN RAJ	P
23	1513210025	CS 4 Year	AMAN SAXENA	A
24	1513210032	CS 4 Year	ANSH UPADHYAY	A
25	1513210033	CS 4 Year	APOORVA SHRUTI	A
26	1513210034	CS 4 Year	APURVA ANAND	P
27	1513210035	CS 4 Year	ARSHAD KHAN	A
28	1513210036	CS 4 Year	ARUN KUMAR	P
29	1513210037	CS 4 Year	ARYA KRISHNAN	P
30	1513210038	CS 4 Year	ASHISH MAURYA	P
31	1513210041	CS 4 Year	ASHUTOSH SAHU	A
32	1513210042	CS 4 Year	ASHUTOSH SINGH	P
33	1513210044	CS 4 Year	ATUL BALODI	A
34	1513210047	CS 4 Year	AYUSH MISHRA	P
35	1513210048	CS 4 Year	DEEPAK KUMAR PATEL	A
36	1513210051	CS 4 Year	DIKSHA GUPTA	P
37	1513210052	CS 4 Year	DIMPLE GUPTA	P
38	1513210053	CS 4 Year	DIPANSHU	A
39	1513210055	CS 4 Year	GANESH SINGH	P
40	1513210059	CS 4 Year	HARSH VARDAN	A
41	1513210060	CS 4 Year	HEMANT KUMAR MEHTA	A
42	1513210063	CS 4 Year	HINA ILIYAS	A
43	1513210066	CS 4 Year	JATIN GUPTA	P
44	1513210067	CS 4 Year	JAY CHAUBEY	A
45	1513210068	CS 4 Year	JIVESH ARORA	P
46	1513210072	CS 4 Year	KARAN NEGI	P
47	1513210074	CS 4 Year	KM RITU BIND	P
48	1513210075	CS 4 Year	KUNAL KUMAR KUSHWAHA	P
49	1513210076	CS 4 Year	KUNDAN KUMAR PURI	A
50	1513210077	CS 4 Year	LAKSHIT KUMAR SINGH	A
51	1513210078	CS 4 Year	LOVEKESH KUMAR	P
52	1513210081	CS 4 Year	MD SAMAD SHADAB	P



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GREATER NOIDA INSTITUTE OF TECHNOLOGY (Engg. Institute)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

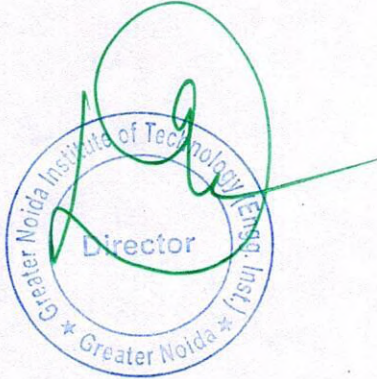
Ref: - No. GNIOT/CSE/ODD/Events/02

Date: 22.10.2018

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 all are informed that a expert talk is being organized on “ data analytics” on 24th October 2018.

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



(Approved by AICTE, Delhi & Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow)
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0120-2328214/15/16 | 1800 274 6969 ✉ director@gniot.net.in 🌐 www.gniot.net.in

**Expert Talk
on**

“Data Analytics”

**24th Oct, 2018
(11:00 AM to 12:30 PM)**

**Organized by
Department of Computer Science and Engineering**

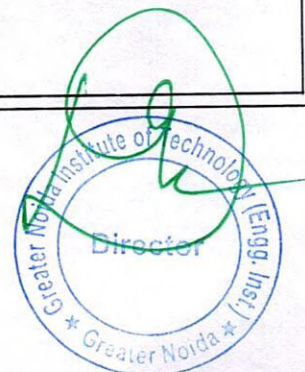


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Institution's Innovation Council

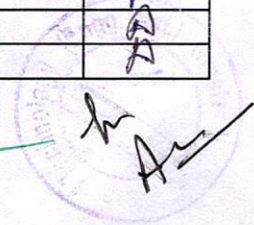
(Approved by AICTE, Delhi & Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow)
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0120-2328214/15/16 | 1800 274 6969 ✉ director@gniot.net.in 🌐 www.gniot.net.in



SNo.	**Univ.Roll	**Class	**Name	Attendance for Event
1	0	CS 3 Year	PRIYANKA	P
2	1413210117	CS 3 Year	RAHUL KUMAR	P
3	1513210045	CS 3 Year	ATUL CHAUDHARY	A
4	1513210079	CS 3 Year	MANI KUMAR	P
5	1513210140	CS 3 Year	SAMEERA PARVEEN	P
6	1513210149	CS 3 Year	SHIVAM SINGH	P
7	1513210172	CS 3 Year	TUSHAR PRATAP SINGH	P
8	1613210002	CS 3 Year	AARJU RAJ ARYA	A
9	1613210005	CS 3 Year	AAYUSH KUMAR	P
10	1613210006	CS 3 Year	ABHIJEET MISHRA	P
11	1613210008	CS 3 Year	ABHISHEK	P
12	1613210011	CS 3 Year	ABHISHEK SRIVASTAVA	A
13	1613210013	CS 3 Year	ADESH ANAND	P
14	1613210017	CS 3 Year	AKASH BHARDWAJ	A
15	1613210018	CS 3 Year	AKASH KUMAR	A
16	1613210019	CS 3 Year	AKASH KATOCH	A
17	1613210021	CS 3 Year	AKSHAY KUMAR	P
18	1613210022	CS 3 Year	ALIYA FERAZ	P
19	1613210024	CS 3 Year	AMAN MISHRA	P
20	1613210025	CS 3 Year	AMARTYA PARIJAT	A
21	1613210026	CS 3 Year	AMEESHA SINGH	P
22	1613210030	CS 3 Year	ANIKET KUMAR	P
23	1613210031	CS 3 Year	ANIKET SRIVASTAVA	P
24	1613210034	CS 3 Year	ANJALI KUMARI	P
25	1613210035	CS 3 Year	ANJALI PANDEY	P
26	1613210038	CS 3 Year	ANKIT KUMAR	A
27	1613210041	CS 3 Year	ANSHIKA TRIPATHI	A
28	1613210042	CS 3 Year	ANUGRAH BHATT	A
29	1613210043	CS 3 Year	APOORV BHARDWAJ	P
30	1613210045	CS 3 Year	ARJIT AWASTHI	A
31	1613210046	CS 3 Year	ARJIT SAXENA	A
32	1613210048	CS 3 Year	ASHIMA AHLAWAT	P
33	1613210050	CS 3 Year	ASHISH KUMAR OJHA	P
34	1613210051	CS 3 Year	ASHUTOSH KUMAR DIXIT	P
35	1613210052	CS 3 Year	ATUL KUMAR	P
36	1613210053	CS 3 Year	AVANEESH KUMAR	A
37	1613210054	CS 3 Year	AYUSH SINGH	P
38	1613210055	CS 3 Year	AYUSHI BATHAM	A
39	1613210056	CS 3 Year	BASIT ANWAR	A
40	1613210059	CS 3 Year	BIKASH KUMAR DAS	P
41	1613210060	CS 3 Year	CH SUJITHA SOUBHAGYA	P
42	1613210061	CS 3 Year	CHANDAN KUMAR	P
43	1613210063	CS 3 Year	DEEPAK KUMAR	P
44	1613210067	CS 3 Year	DHEERAJ KUMAR BAGHEL	A
45	1613210069	CS 3 Year	DIPANSHU SHARMA	A
46	1613210070	CS 3 Year	DIVYANSHU	P
47	1613210071	CS 3 Year	ESHANT GARG	A
48	1613210072	CS 3 Year	GAURAV	P
49	1613210074	CS 3 Year	JATIN KUMAR	P
50	1613210075	CS 3 Year	JAYA KUMARI SINGH	P
51	1613210077	CS 3 Year	JYOTI SINGH	P
52	1613210078	CS 3 Year	KAPIL DEV PANDEY	P



53	1513210084	CS 4 Year	MOHAMMAD ANAS	A
54	1513210087	CS 4 Year	MOHD ANAS CHOUDHARY	P
55	1513210090	CS 4 Year	MOHIT PANWAR	P
56	1513210092	CS 4 Year	MRITYUNJAY KUMAR KUSHWAHA	A
57	1513210093	CS 4 Year	NAKUL SINGH BHATI	P
58	1513210094	CS 4 Year	NAVYA SRIVASTAVA	A
59	1513210095	CS 4 Year	NIDHI KASHYAP	P
60	1513210097	CS 4 Year	NIKHIL KUMAR	P
61	1513210099	CS 4 Year	NIKHIL GARG	A
62	1513210101	CS 4 Year	NITESH KUMAR YADAV	A
63	1513210103	CS 4 Year	NITIN KUMAR	A
64	1513210105	CS 4 Year	PANKAJ YADAV	P
65	1513210106	CS 4 Year	PAVANESH PRATAP SINGH	P
66	1513210107	CS 4 Year	PAWAN KUMAR DUBEY	P
67	1513210108	CS 4 Year	POOJA RANI	P
68	1513210109	CS 4 Year	POOJA TANGANIYA	A
69	1513210112	CS 4 Year	PRASHANT SINGH	P
70	1513210113	CS 4 Year	PRATIK KUMAR	P
71	1513210114	CS 4 Year	PRITAM KUMARI	A
72	1513210117	CS 4 Year	RAJEEV LEKHVAR	A
73	1513210119	CS 4 Year	RAKESH KR.SINGH	A
74	1513210120	CS 4 Year	RANDHIR KUMAR	P
75	1513210121	CS 4 Year	RAVI KUMAR SHARMA	P
76	1513210122	CS 4 Year	RAVI PRATAP	A
77	1513210123	CS 4 Year	RICHA SINHA	A
78	1513210125	CS 4 Year	RISHU KUMAR	P
79	1513210126	CS 4 Year	RITESH KUMAR	P
80	1513210129	CS 4 Year	ROHIT KUMAR SINGH	P
81	1513210132	CS 4 Year	RUPALI CHAUHAN	P
82	1513210133	CS 4 Year	SACHIN SHARMA	P
83	1513210138	CS 4 Year	SAHIL KUMAR	A
84	1513210139	CS 4 Year	SAKSHAM SHARMA	A
85	1513210141	CS 4 Year	SARTHAK GUPTA	P
86	1513210142	CS 4 Year	SARTHAK GUPTA	A
87	1513210143	CS 4 Year	SAUMYA SHARMA	A
88	1513210144	CS 4 Year	SAUMYA SRIVASTAVA	A
89	1513210146	CS 4 Year	SAURAV PATEL	P
90	1513210147	CS 4 Year	SHAILVI SINGH	A
91	1513210151	CS 4 Year	SHIVANI BAGHEL	P
92	1513210152	CS 4 Year	SHIVANSHU RAI	A
93	1513210153	CS 4 Year	SHSHANK KUMAR	A
94	1513210156	CS 4 Year	SHUBHAM SHARMA	P
95	1513210157	CS 4 Year	SHUDHANSHU	A
96	1513210158	CS 4 Year	SHYAM SHARMA	P
97	1513210159	CS 4 Year	SIDDHANT BHATIA	A
98	1513210160	CS 4 Year	SIDDHANT KUMAR	A
99	1513210161	CS 4 Year	SIDDHARTHA	A
100	1513210164	CS 4 Year	SUMIT RAWAT	P
101	1513210167	CS 4 Year	SUNNY GUPTA	A
102	1513210168	CS 4 Year	SUSHIL KUMAR	P
103	1513210169	CS 4 Year	SUSHMITA SAXENA	P
104	1513210170	CS 4 Year	TABISH AHMED	P
105	1513210171	CS 4 Year	TANYA SENGAR	A
106	1513210176	CS 4 Year	UNNATI UPADHYAY	A





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

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

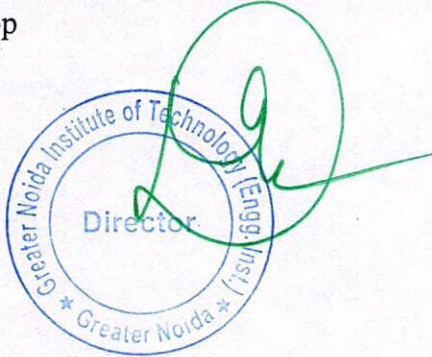
Ref: - No. GNIOT/CSE/EVEN/Events/03

Date: 11.03.2019

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 all are informed that a expert talk is being organized on "machine learning" on 14th March 2019.

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



(Approved by AICTE, Delhi & Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow)
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Expert Talk
on

“Machine Learning”

14th March, 2019
(01:45PM to 03.30PM)

Organized by
Department of Computer Science and Engineering

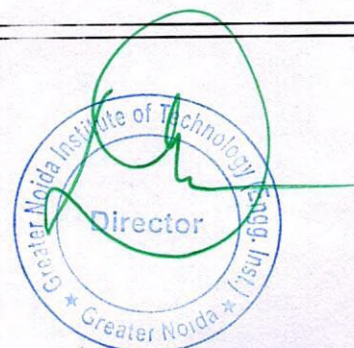


**INSTITUTION'S
INNOVATION
COUNCIL**
(Ministry of Education Initiative)

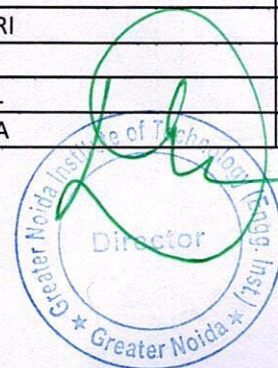


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0120-2328214/15/16 | 1800 274 6969 director@gniot.net.in www.gniot.net.in



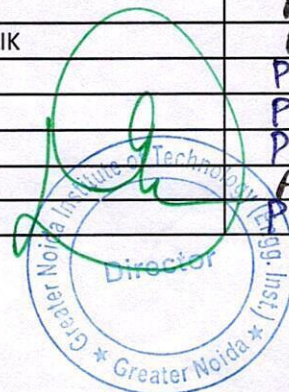
SNo.	**Univ.Roll	**Class	**Name	Attendance for Event
1	1613210047	CS 2 Year	ARPAN SRIVASTAVA	A
2	1613210121	CS 2 Year	PRAVEEN KUMAR SINGH	P
3	1613210142	CS 2 Year	SAHIL KUMAR SINGH	A
4	1613210148	CS 2 Year	SHAHARYAR FAHMI	A
5	1613210182	CS 2 Year	VIKASH	P
6	1713210001	CS 2 Year	AAKASH RAWAT	A
7	1713210002	CS 2 Year	AANIF MANZOOR	A
8	1713210004	CS 2 Year	ABHI CHAUHAN	P
9	1713210005	CS 2 Year	ABHISHEK KUMAR AGNIHOTRI	P
10	1713210006	CS 2 Year	ABHISHEK RAI	A
11	1713210007	CS 2 Year	ABHISHEK SHEKHAR	A
12	1713210009	CS 2 Year	ADARSH KUMAR RAI	A
13	1713210014	CS 2 Year	ADITYA RANJAN PANDEY	P
14	1713210015	CS 2 Year	AJIT KUMAR SINGH	P
15	1713210016	CS 2 Year	AKASH TYAGI	P
16	1713210017	CS 2 Year	AKSHAY SHARMA	P
17	1713210021	CS 2 Year	AMIT JHA	A
18	1713210022	CS 2 Year	AMIT KUMAR	A
19	1713210023	CS 2 Year	ANJANI KUMAR	A
20	1713210025	CS 2 Year	ANKIT MALIK	A
21	1713210026	CS 2 Year	ANKIT SAHAY	A
22	1713210027	CS 2 Year	ANSH RANJAN	A
23	1713210029	CS 2 Year	ASHUTOSH KUMAR THAKUR	A
24	1713210031	CS 2 Year	ASHUTOSH RANA	A
25	1713210033	CS 2 Year	ATUL PRAJAPATI	P
26	1713210034	CS 2 Year	ATUL SHARMA	A
27	1713210035	CS 2 Year	AYUSH GUPTA	A
28	1713210038	CS 2 Year	BRIJESH SINGH NEGI	A
29	1713210039	CS 2 Year	CHANDAN	P
30	1713210040	CS 2 Year	CHANDRA PRATAP NARAYAN SINGH	A
31	1713210041	CS 2 Year	CHIRAG VARSHNEY	R
32	1713210042	CS 2 Year	DAMINI GUPTA	A
33	1713210046	CS 2 Year	DEEPAK KUMAR MAURYA	P
34	1713210049	CS 2 Year	DOLLY	A
35	1713210050	CS 2 Year	EJAZ ALI	P
36	1713210052	CS 2 Year	GAURAV MISHRA	P
37	1713210055	CS 2 Year	GOURAV VERMA	P
38	1713210056	CS 2 Year	GUNEET GUPTA	P
39	1713210057	CS 2 Year	HAKIM TAI	A
40	1713210060	CS 2 Year	ISHITA SINGH	A
41	1713210061	CS 2 Year	JAY KUMAR	P
42	1713210062	CS 2 Year	JISHANT TYAGI	A
43	1713210063	CS 2 Year	JITIN PATEL	A
44	1713210064	CS 2 Year	JYOTI YADAV	A
45	1713210065	CS 2 Year	KAJAL TIWARI	P
46	1713210067	CS 2 Year	SWETA SHEKHAVAT	P
47	1713210068	CS 2 Year	KOMAL RAWAT	A
48	1713210069	CS 2 Year	KOMAL SINGH	A
49	1713210070	CS 2 Year	KRISHNA KUMARI	P
50	1713210071	CS 2 Year	KRITI	A
51	1713210072	CS 2 Year	KUNAL NAILWAL	A
52	1713210073	CS 2 Year	MANJESH GUPTA	P



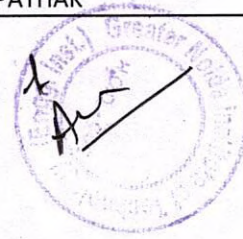
53	1713210074	CS 2 Year	MANSI GARG	P
54	1713210075	CS 2 Year	MAYANK PRIYADARSHI	P
55	1713210076	CS 2 Year	MAYANK RAJPUT	P
56	1713210079	CS 2 Year	MEDHA RAJ	P
57	1713210080	CS 2 Year	MOHAMMAD SAMAD UL HAQUE	A
58	1713210081	CS 2 Year	MOHD ARIF	A
59	1713210083	CS 2 Year	MOHD KAIF	P
60	1713210084	CS 2 Year	MOHD.NASIR	P
61	1713210085	CS 2 Year	MUSTAFA HUSSAIN DAR	A
62	1713210086	CS 2 Year	NAINA RAWAT	A
63	1713210087	CS 2 Year	NAVEEN PATHAK	A
64	1713210089	CS 2 Year	NAVNEET KUMAR	P
65	1713210090	CS 2 Year	NIKHIL KUMAR	A
66	1713210093	CS 2 Year	NISHA PATEL	A
67	1713210094	CS 2 Year	NISHANT KETU	P
68	1713210095	CS 2 Year	NISHANT KUMAR	P
69	1713210096	CS 2 Year	NISHANT RANJAN	P
70	1713210097	CS 2 Year	NISHANT SINGH	A
71	1713210099	CS 2 Year	NITIN PANDEY	P
72	1713210103	CS 2 Year	PARTH JOSHI	P
73	1713210104	CS 2 Year	PARWEZ ALAM	A
74	1713210107	CS 2 Year	PRATYAKSH SAXENA	P
75	1713210112	CS 2 Year	RAHUL KUMAR	A
76	1713210114	CS 2 Year	RAHUL MOHARANA	A
77	1713210115	CS 2 Year	RAJ BALHARA	P
78	1713210116	CS 2 Year	RAJU KUMAR	A
79	1713210117	CS 2 Year	RASHIKA SINGH	A
80	1713210119	CS 2 Year	RISHABH RANA	P
81	1713210120	CS 2 Year	RISHABH SINGH	A
82	1713210122	CS 2 Year	RIYA NIGAM	A
83	1713210123	CS 2 Year	RIYA PATEL	A
84	1713210125	CS 2 Year	ROHIT KUMAR	A
85	1713210126	CS 2 Year	ROHIT SINGH	P
86	1713210127	CS 2 Year	ROSHNI SRIVASTAV	P
87	1713210128	CS 2 Year	RUDRA PRATAP SINGH	P
88	1713210129	CS 2 Year	SABA	A
89	1713210132	CS 2 Year	SAFIYA KHAN	P
90	1713210134	CS 2 Year	SAKSHI SHUKLA	P
91	1713210135	CS 2 Year	SALADI NITISHA	P
92	1713210137	CS 2 Year	SARBJEET KUMAR	A
93	1713210139	CS 2 Year	SAUDUR RAHMAN	A
94	1713210140	CS 2 Year	SHADAB QUARAISHI	P
95	1713210142	CS 2 Year	SHANTANU KUMAR SHARMA	A
96	1713210143	CS 2 Year	SHASHANK BHATT	A
97	1713210144	CS 2 Year	SHASHANK GARG	A
98	1713210146	CS 2 Year	SHEIKH FAISHAL	A
99	1713210147	CS 2 Year	SHIKHA SINGH	P
100	1713210148	CS 2 Year	SHIVAM SRIVASTAVA	A
101	1713210149	CS 2 Year	SHIVANAND SHARMA	A
102	1713210150	CS 2 Year	SHIVANG SAXENA	P
103	1713210151	CS 2 Year	SHIVANGI KAUSHIK	P
104	1713210152	CS 2 Year	SHREYA VERMA	P
105	1713210155	CS 2 Year	SHUBHAM RAJ	P
106	1713210157	CS 2 Year	SHUBHAM SAURABH	P



107	1513210177	CS 4 Year	UPASNA PATEL	P
108	1513210179	CS 4 Year	VAISHALI CHAURASIA	P
109	1513210181	CS 4 Year	VIKASH KUMAR	P
110	1513210182	CS 4 Year	VIKASH NAYAK	A
111	1513210183	CS 4 Year	VINAY	A
112	1513210189	CS 4 Year	YUVRAJ DIGVIJAY	A
113	1513213026	CS 4 Year	BHAVNA RAJPUT	P
114	1513240096	CS 4 Year	KARAN MANCHANDA	P
115	1513240098	CS 4 Year	KASHIF FIROZE	A
116	1613210801	CS 4 Year	ANKESH RAJ	A
117	1613210901	CS 4 Year	ABHISHEK SHARMA	A
118	1613210903	CS 4 Year	ASHISH MISHRA	A
119	1613210904	CS 4 Year	BIKRAM KUMAR	P
120	1613210905	CS 4 Year	DHANANJAY KUMAR PANDEY	P
121	1613210906	CS 4 Year	GAURAV	P
122	1613210907	CS 4 Year	IQRA	A
123	1613210910	CS 4 Year	NAVAL OLI	P
124	1613210911	CS 4 Year	NISHITH RAJ	P
125	1613210912	CS 4 Year	RAJEEV RANJAN	A
126	1613210913	CS 4 Year	RAJNISH KUMAR NIRALA	A
127	1613210915	CS 4 Year	VICKY KUMAR YADAV	A
128	1413210043	CS 4 YEAR(2nd Shift)	AYUSH KUMAR THAKUR	A
129	1413210101	CS 4 YEAR(2nd Shift)	PRANJAL KUMAR SINGH	P
130	1413210114	CS 4 YEAR(2nd Shift)	PUNIT RAJ	P
131	1413210123	CS 4 YEAR(2nd Shift)	RAUNAK SINGH	P
132	1513210015	CS 4 YEAR(2nd Shift)	AHMAD SADIQUE RASOOL	P
133	1513210019	CS 4 YEAR(2nd Shift)	AKHIL VATS	P
134	1513210026	CS 4 YEAR(2nd Shift)	AMAR CHAUDHARY	P
135	1513210027	CS 4 YEAR(2nd Shift)	AMIT JHA	A
136	1513210028	CS 4 YEAR(2nd Shift)	AMIT KUMAR SHARMA	A
137	1513210031	CS 4 YEAR(2nd Shift)	ANKITA SINGH	A
138	1513210039	CS 4 YEAR(2nd Shift)	ASHISH NAYAK	A
139	1513210046	CS 4 YEAR(2nd Shift)	AYUSH KUMAR	P
140	1513210049	CS 4 YEAR(2nd Shift)	DEVANSH SHUKLA	A
141	1513210050	CS 4 YEAR(2nd Shift)	DHEERAJ KUMAR	A
142	1513210054	CS 4 YEAR(2nd Shift)	FAISEL AHMAD	P
143	1513210056	CS 4 YEAR(2nd Shift)	GARIMA KUMARI	A
144	1513210058	CS 4 YEAR(2nd Shift)	GIRISH SINGH RATHORE	A
145	1513210061	CS 4 YEAR(2nd Shift)	HIMANSHI GARG	P
146	1513210062	CS 4 YEAR(2nd Shift)	HIMANSHU GUPTA	A
147	1513210064	CS 4 YEAR(2nd Shift)	JAGDEEP SINGH	P
148	1513210069	CS 4 YEAR(2nd Shift)	JYOTI KUMARI	A
149	1513210070	CS 4 YEAR(2nd Shift)	KAJOL KUSHWAHA	A
150	1513210073	CS 4 YEAR(2nd Shift)	KESHAV MADHAV	A
151	1513210083	CS 4 YEAR(2nd Shift)	MD WASIM AKRAM	P
152	1513210085	CS 4 YEAR(2nd Shift)	MOHAN GUPTA	P
153	1513210086	CS 4 YEAR(2nd Shift)	MOHD AMAAN	A
154	1513210088	CS 4 YEAR(2nd Shift)	MOHD RIHAN	A
155	1513210089	CS 4 YEAR(2nd Shift)	MOHD SUFIYAN MALIK	A
156	1513210096	CS 4 YEAR(2nd Shift)	NIKETAN JHA	P
157	1513210098	CS 4 YEAR(2nd Shift)	NIKHIL SHARMA	P
158	1513210100	CS 4 YEAR(2nd Shift)	NISHANT RANJAN	P
159	1513210102	CS 4 YEAR(2nd Shift)	NITIN	A
160	1513210110	CS 4 YEAR(2nd Shift)	PRAKHAR AGRAWAL	P



161	1513210118	CS 4 YEAR(2nd Shift)	RAJU KUMAR JHA	P
162	1513210124	CS 4 YEAR(2nd Shift)	RISHIKESH KUMAR	P
163	1513210128	CS 4 YEAR(2nd Shift)	ROHIT KUMAR	P
164	1513210131	CS 4 YEAR(2nd Shift)	ROVINSH	P
165	1513210136	CS 4 YEAR(2nd Shift)	SAFDAR ALI	A
166	1513210145	CS 4 YEAR(2nd Shift)	SAURABH TRIPATHI	A
167	1513210148	CS 4 YEAR(2nd Shift)	SHANTANU DUBEY	A
168	1513210150	CS 4 YEAR(2nd Shift)	SHIVANI	A
169	1513210154	CS 4 YEAR(2nd Shift)	SHUBHAM KUMAR	P
170	1513210155	CS 4 YEAR(2nd Shift)	SHUBHAM RAJ	A
171	1513210162	CS 4 YEAR(2nd Shift)	SUMIT GANGULY	A
172	1513210163	CS 4 YEAR(2nd Shift)	SUMIT KUMAR	A
173	1513210165	CS 4 YEAR(2nd Shift)	SUNIL KUMAR JAISAWAL	P
174	1513210166	CS 4 YEAR(2nd Shift)	SUNIL KUMAR YADAV	A
175	1513210173	CS 4 YEAR(2nd Shift)	TWINKLE ARORA	A
176	1513210174	CS 4 YEAR(2nd Shift)	UDDESH SINGH GEHARWAR	A
177	1513210175	CS 4 YEAR(2nd Shift)	UMANG JAISWAL	P
178	1513210184	CS 4 YEAR(2nd Shift)	VISHAL GUPTA	P
179	1513210185	CS 4 YEAR(2nd Shift)	VISHAL SINGH	A
180	1513240246	CS 4 YEAR(2nd Shift)	VIVEK KUMAR PATHAK	A





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

ELECTRICAL ENGINEERING DEPARTMENT

NOTICE

GNIOT/EE/2018/02

Date: 20/08/2018

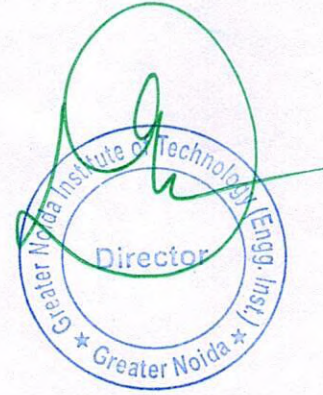
Subject: Workshop on Material Testing Lab

The Electrical Engineering Department is going to organize a “**Workshop on Material Testing Lab**” at GNIOT, Greater Noida on 23/08/2018. The students of B. Tech (EE) are required to attend the workshop. The objective of this workshop is to know about material testing.

Venue: GNIOT, Greater Noida

Date & Time: 23/08/2018 at 11.00 a.m.

Event Coordinator: Mr. Sandeep Goyat





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

REPORT

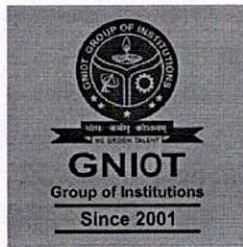
WORKSHOP

On

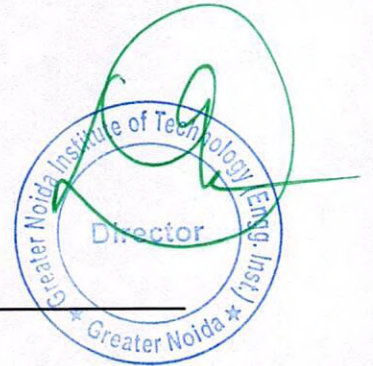
“MATERIAL TESTING LAB”

23AUGUST 2018

Organized by



Electrical Engineering Department



(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

Workshop on Material Testing Lab

Department :- Electrical Engineering
Activity :- Workshop on Material Testing lab
Held on :- 23rd August 2018
Venue :- ME deptt.
Attended by :- Students of the EE department

Brief Report :-

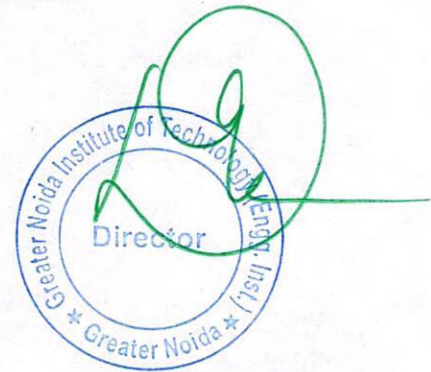
A visit to the **Material Testing lab** of the ME deptt. was organized by the **Electrical Engineering Department**. Students of the EE visited the lab and got a chance to practically see and learn about the properties and characteristics of various engineering materials. Various experiments were conducted to test these materials. Mr. Sandeep Goyat, Assistant Professor, EE escorted the students to the lab.

Outcome:

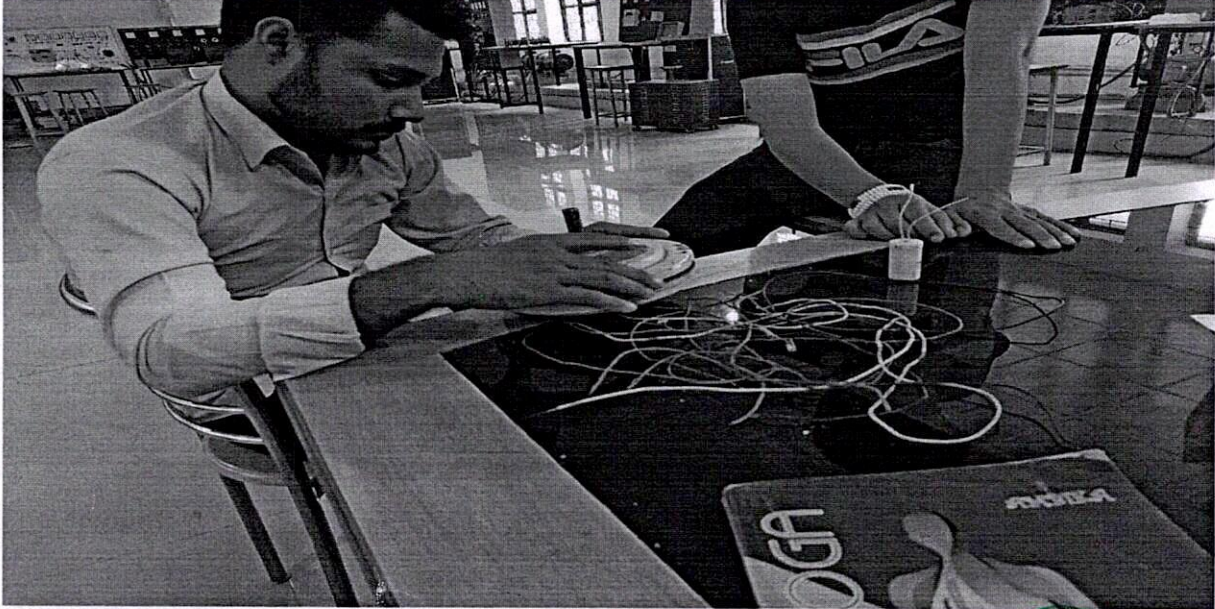
The Students were able to learn about the properties and characteristics of various engineering materials. Various experiments were conducted to test these materials.

Cc: Media

- (a) udgam@gnit.net
- (b) director@gniot.net.in

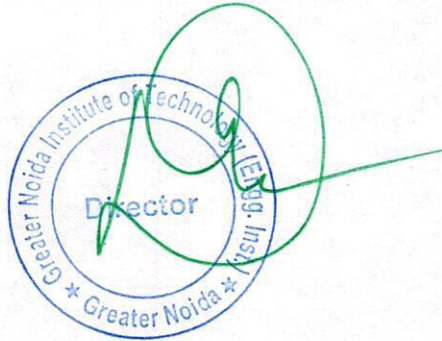


Photographs:- 1



ATTENDANCE SHEET

S.No.	Enrollment No	Student Name	Status
1	1813220903	AMIT KUMAR VIMAL	P
2	1813220907	GEETANJALI KASHYAP	P
3	1813220901	ABDUL RAHEEM	P
4	1813220904	ANKUR ROSHAN	P
5	1713220911	RAJU YADAV	P
6	1713220905	KRISHNA CHANDRA RAI	A
7	1713220904	HUMAZA AMIN SOFI	P
8	1713220912	RAJVEER SINGH	P
9	1713220916	TOUFEEQ AHMAD KACHOO	P
10	1713220902	BRIJESH KUMAR	P
11	1713220917	UMESH CHANDRA	P
12	1513220031	JITENDRA KUMAR RAI	A
13	1513220032	KAUSHAR ALI	P
14	1513220038	MD HASNAIN REZA	P
15	1413220050	MD WAQUAR BAKHSHI	P


Director
Greater Noida Institute of Technology (Engg. Inst.)
* Greater Noida *
HOD (EE)



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

ELECTRICAL ENGINEERING DEPARTMENT

NOTICE

GNIOT/EE/2018/

Date: 14/09/2018

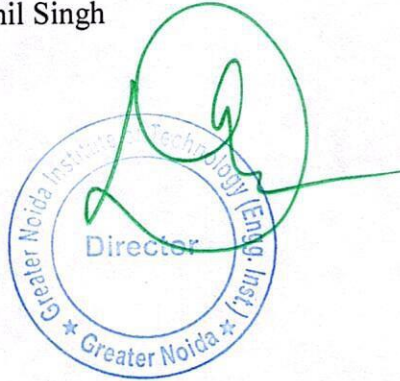
Subject: Expert Lecture on Indian Culture & Women Empowerment

The Electrical Engineering Department is going to organize a “**Expert Lecture on Indian Culture & Women Empowerment**” at GNIOT, Greater Noida on 17/09/2018. The students of B. Tech (EE) are required to attend the event. The objective of this event is to know about Indian culture and women empowerment.

Venue: GNIOT, Greater Noida

Date & Time: 17/09/2018 at 3 p.m.

Event Coordinator: Mr.Sushil Singh



REPORT

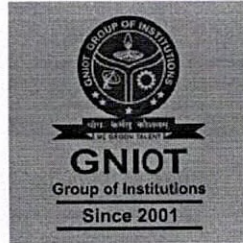
Expert Lecture

On

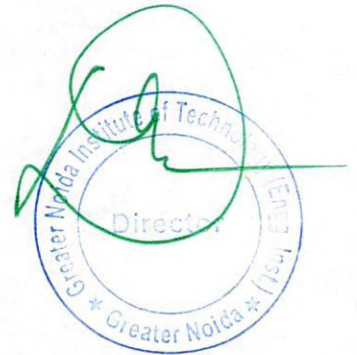
“INDIAN CULTURE & WOMEN EMPOWERMENT”

17 SEPTEMBER 2018

Organized by



Electrical Engineering Department



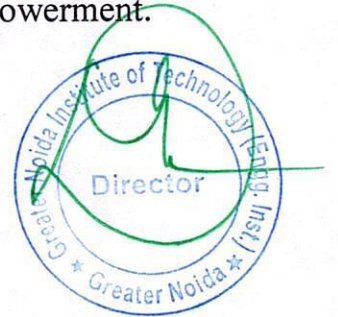
INDIAN CULTURE & WOMEN EMPOWERMENT

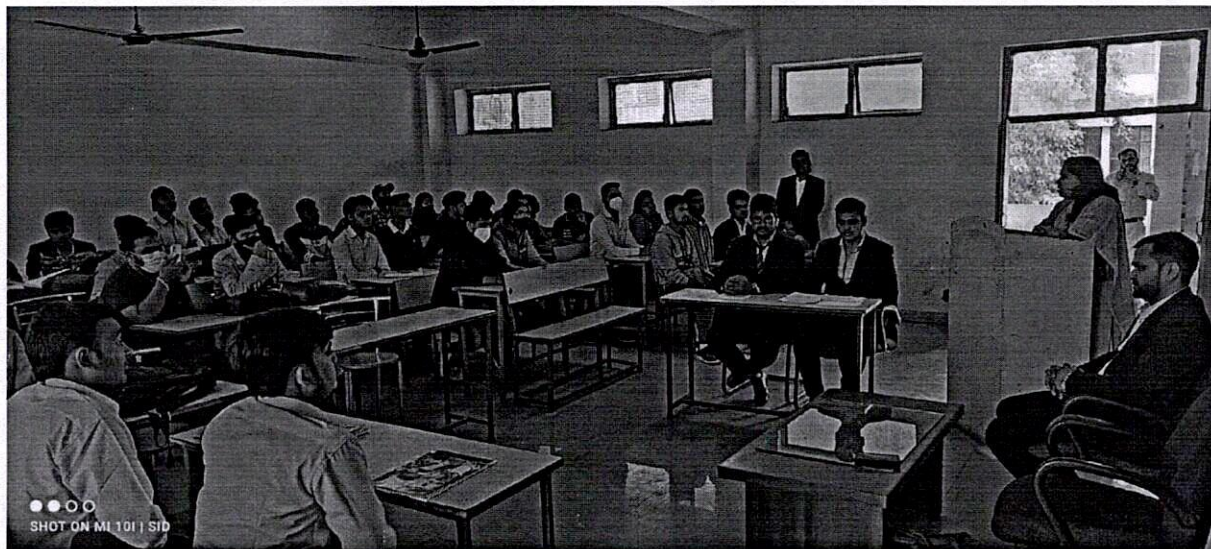
Date: 17.09.2018

The Electrical Engineering (EE) Department conducted a expert lectuer on 'Indian Culture & Women Empowerment'. Chief Guest for the event was Ms. InduBhushan, HOD, EEE/ECE, LLOYD Engineering College, Greater Noida. She illuminated the students about the use of latest technology for women empowerment and encouraged the students to support the same. A myriad of students participated in the expert lectuerand made it a huge success. And last but not the least, thanks to the consistent efforts of Dr. Nikhil Gupta, HOD EE Dept. and the invaluable support from the EE teaching fraternity that brought the event to a successful conclusion.

Outcome:

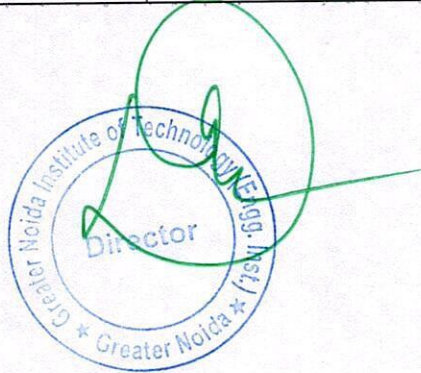
1. The students learned a lot about Indian culture and women empowerment through a debate competition.
2. The chief guest encouraged the students to promote women empowerment.





ATTENDANCE SHEET

S.No.	Enrollment No	Student Name	Status
1	1413220063	RAHUL GUPTA	P
2	1413220066	RAJ KUMAR	P
3	1413220067	RAJESH KUMAR	P
4	1413220065	RAJKUMAR	P
5	1413220068	RAKESH KUMAR	P
6	1413220069	RAMPRAKASH YADAV	A
7	1213220078	RAMSAGAR GUPTA	P
8	1413220070	RAUNAK SHARMA	P
9	1413220079	SATISH KUMAR CHOUBEY	P
10	1413220081	SHAFIQUE KHANAM	P
11	1613220010	BIJAY KUMAR	A
12	1613220039	SUDDU KUMAR	P
13	1613220024	MONU KUMAR	P
14	1613220022	MOHD SAQIB MASOOD	P
15	1613220017	MD FAIZ AKRAM	P
16	1513220044	NOOR ALAM ANSARI	A
17	1513220047	RATNESH KUMAR SINGH	P
18	1513220048	RAUNAK KUMAR	P
19	1513220050	SACHIN KUMAR	P
20	1513220052	SANYUKTA KUMARI	P



Director
 Greater Noida Institute of Technology
 Greater Noida



HOD (EE)
 Greater Noida Institute of Technology
 Greater Noida



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

ELECTRICAL ENGINEERING DEPARTMENT

NOTICE

GNIOT/EE/2018/03

Date: 25/09/2018

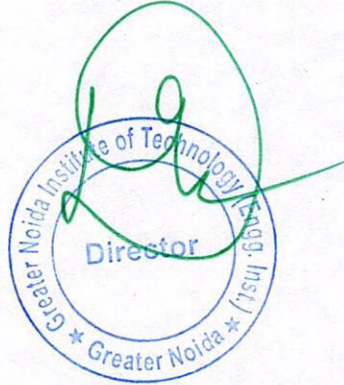
Subject: Visit to Generator Room

The Electrical Engineering Department is going to organize a “Visit to Generator Room” at GNIOT, Greater Noida on 28/09/2018. The students of B. Tech (EE) are required to attend the workshop. The objective of this workshop is to visit the generator room.

Venue: GNIOT, Greater Noida

Date & Time: 28/09/2018 at 11.00 a.m.

Event Coordinator: Mr. Sandeep Goyat



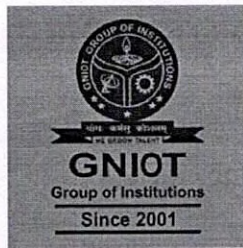
REPORT

Workshop On

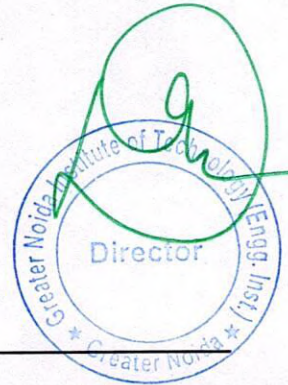
“VISIT TO GENERATOR ROOM”

28 SEPTEMBER 2018

Organized by



Electrical Engineering Department



Visit to generator room

Department :- Electrical Engineering
Activity :- Visit to generator room
Held on :- 28th September 2018
Venue :- College generator room
Attended by :- Students of the EE department

Brief Report :-

A visit to the college's generator room was successfully organized by the **Electrical Engineering Department**. Students of the B. Tech (EE) were the part of the visit and got a chance to practically see and learn about the working of various electrical equipment installed there. Also the students, in group of seven, prepared a report about the visit.

Outcome:

The students got a chance to practically see and learn about the working of various electrical equipment installed in the generator room.

Cc: Media

- (a) udgam@gnit.net
(b) director@gniot.net.in

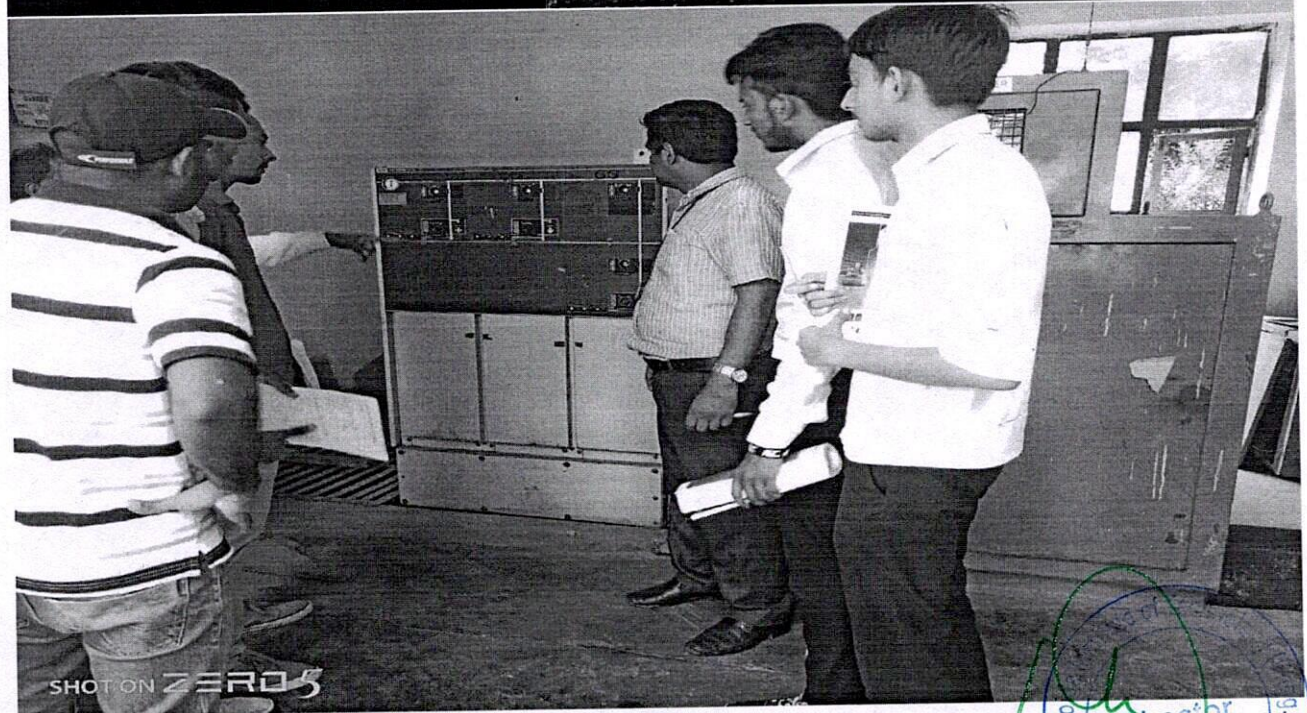


Photographs:- 6



SHOT ON ZERO 5

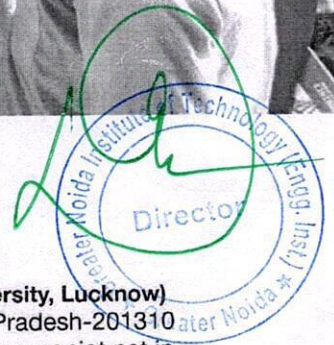




(Handwritten Signature)
Director
Greater Noida Institute of Technology
Greater Noida



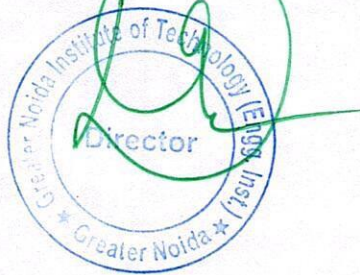
ग्रेटर नोएडा इंस्टीट्यूट ऑफ टेक्नोलॉजी (इंजीनियरिंग इंस्टीट्यूट)
GREATER NOIDA INSTITUTE OF TECHNOLOGY (Engg. Institute)



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

ATTENDANCE SHEET

S.No.	Enrollment No	Student Name	Status
1	1713220001	AADIL HAMEED DAR	P
2	1713220024	SABIYA MIR	P
3	1813220902	ABHISHEK KASHYAP	P
4	1813220903	AMIT KUMAR VIMAL	P
5	1813220907	GEETANJALI KASHYAP	P
6	1813220901	ABDUL RAHEEM	A
7	1813220904	ANKUR ROSHAN	A
8	1713220911	RAJU YADAV	P
9	1713220905	KRISHNA CHANDRA RAI	P
10	1713220904	HUMAZA AMIN SOFI	P
11	1713220912	RAJVEER SINGH	P
12	1713220916	TOUFEEQ AHMAD KACHOO	P
13	1713220902	BRIJESH KUMAR	P
14	1713220917	UMESH CHANDRA	P
15	1513220031	JITENDRA KUMAR RAI	P
16	1513220032	KAUSHAR ALI	P
17	1513220038	MD HASNAIN REZA	P
18	1413220050	MD WAQUAR BAKHSHI	A
19	1513220041	MONIKA	P
20	1513220047	RATNESH KUMAR SINGH	P



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



HOD (EE)



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

DEPARTMENT OF CIVIL ENGINEERING

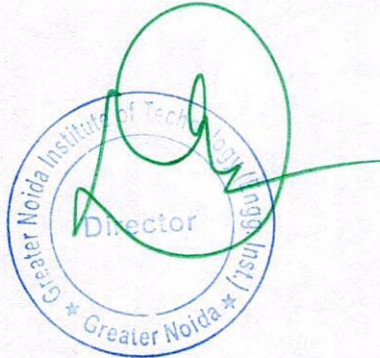
Ref: - No. GNIOT/CE/EVEN/WORKSHOP/02

Date: 03.05.2019

NOTICE

This is to inform all that the **Civil Engineering Department** is organizing a **WORKSHOP** on “solid works workshop by ducac” on **05/05/2019** from **10:00 AM** to **12:00 PM**.

Students has to come in proper uniform and should reach college by 9.30 A.M. No delay will be considered. Student will reach the workshop by College transport only.





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

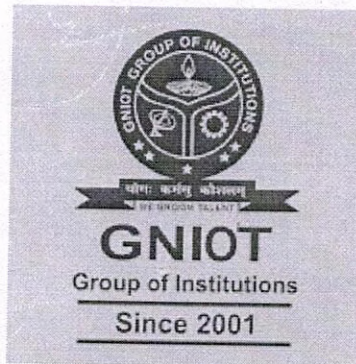
WORKSHOP

On

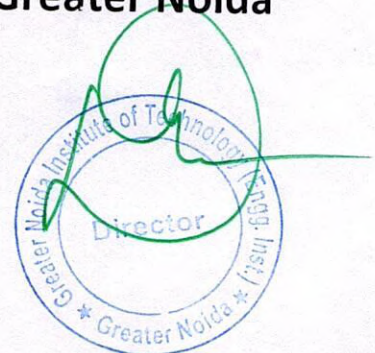
“SOLID WORKS WORKSHOP BY DUCAT”

22 OCTOBER 2019

Organized by

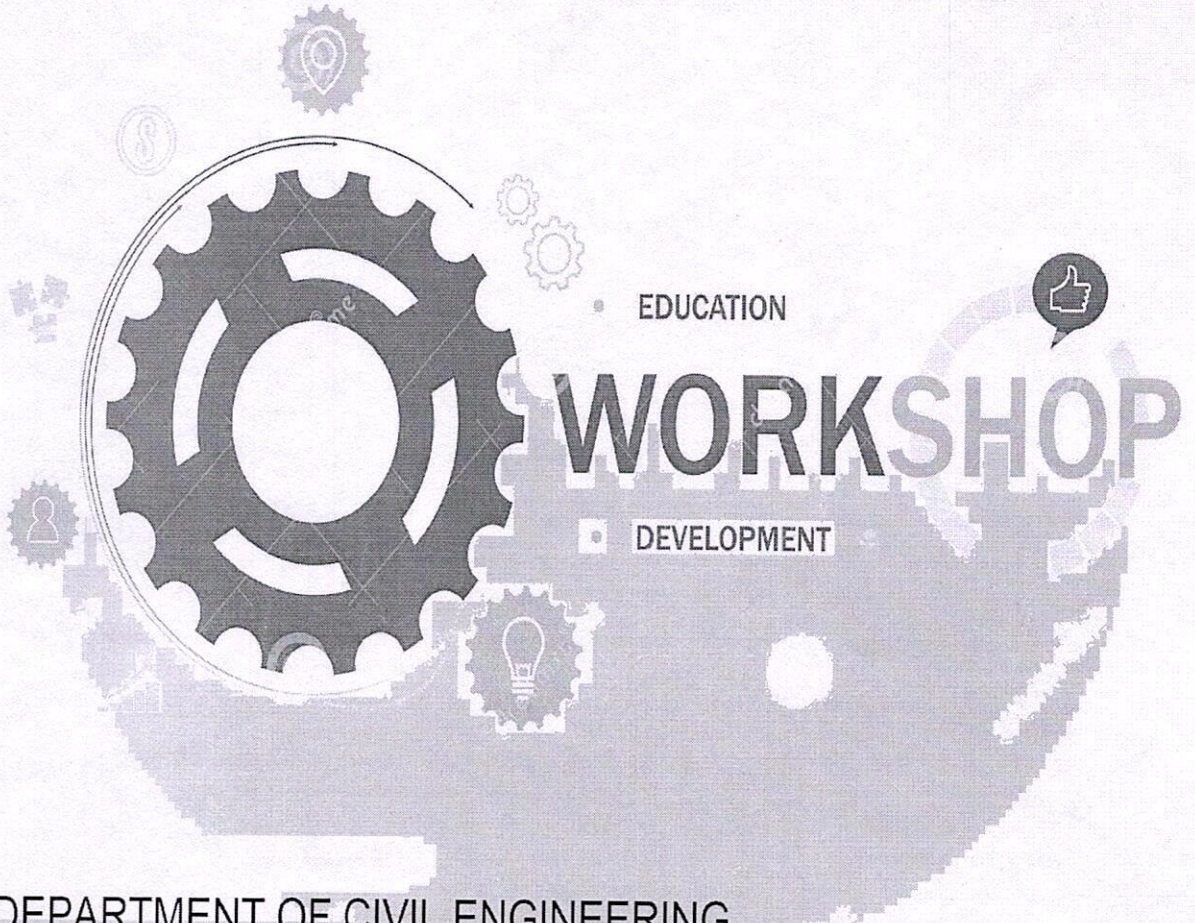


**Department of Civil Engineering
Greater Noida Institute of Technology, Greater Noida**





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



DEPARTMENT OF CIVIL ENGINEERING
SOLID WORKS WORKSHOP BY DUCAT
22.10.2018

[Signature]
Director
Greater Noida Institute of Technology (Engg. Inst.)
Greater Noida

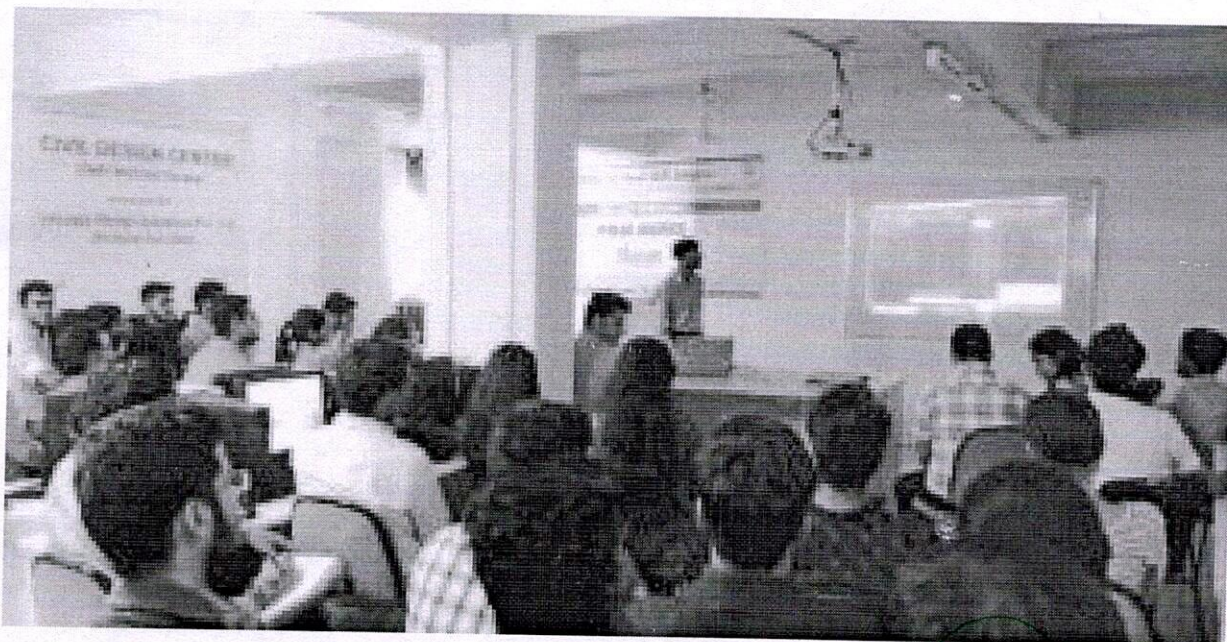
SUMMARY

A Workshop on "SOLID WORKS" was conducted by DUCAT, Greater Noida in Computer Lab, Department of Civil Engineering on 22nd October 2018 from 1:40 – 4:00 p.m. The Workshop was attended by 3rd and 4th year students along with the faculty members of Civil Engineering Department.

The Workshop started with presenting a memento as a token of gratitude to Mr. Deepak Singh, Business Development Executive by Dr. Kailash Narayan, Head of Department. He gave a brief introduction to the students about the software and Mr. Ravindra, Trainer took over with the presentation on the software. The Workshop ended with a doubt clarification session.

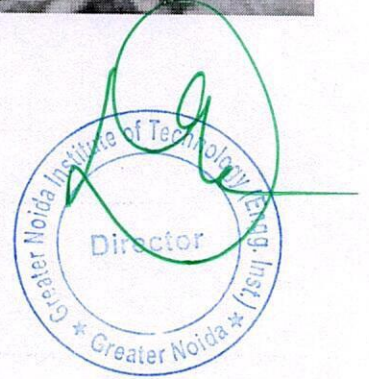
The main objective of the Workshop was to enlighten the students with the advance software's applicable in civil engineering industry as the students have been already trained with the basic software's.

Students found the Workshop fruitful and the Department of Civil Engineering looks forward too many more Workshops ahead.





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



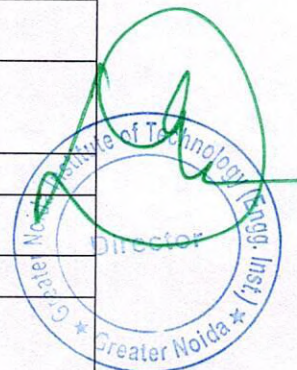


GNIOT
ENGG. INSTITUTE

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

LIST OF STUDENTS

SL NO	ROLL NO	NAME	ATTENDANCE
1	1513200006	ABHIJEET KUMAR	P
2	1513200010	ABHISHEK BHASKAR	ABS
3	1513200021	AKASH KUMAR	P
4	1513200078	JAI	P
5	1513200086	KANHAIYA KUMAR	P
6	1613200001	AAJAM	ABS
7	1613200004	ABHISHEK	ABS
8	1613200005	ABHISHEK KUMAR	P
9	1613200006	ABHISHEK SINGH	P
10	1613200007	ADARSH	P
11	1613200008	ADARSH RAI	P
12	1613200010	AJAY TIWARI	P
13	1613200011	AKASH KUMAR	ABS
14	1613200012	ALOK VARDHAN	P
15	1613200013	AMIT KUMAR	P
16	1613200014	AMIT KUMAR	P
17	1613200015	AMIT SHUKLA	P
18	1613200017	ANISH KUMAR SAH	P
19	1613200019	AQUIB JOHN	P
20	1613200020	ASHAD AMJAD	P
21	1613200021	ASIF ALI	ABS
22	1613200022	ATUL SINGH	ABS
23	1613200023	AVINASH KUMAR	P
24	1613200025	BHANU PRATAP YADAV	P
25	1613200027	DEEPAK KUMAR SAH	P
26	1613200028	DHRUV TIWARI	P





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

27	1613200029	DIGAMBER YADAV	P
28	1613200033	FAISAL IMAM	P
29	1613200034	FARHAAD HASEEB	P
30	1613200035	FARHAN AKHTAR KHAN	P
31	1613200036	FAYEZ NOOR	P
32	1613200037	GAURAV	P
33	1613200039	GULRAIZ HAIDER	ABS
34	1613200040	HAMMAD ZAFAR	ABS
35	1613200043	KUNAL KAUSHIK	P
36	1613200096	QUMRE AZAM	P
37	1613200097	RAHMATULLAH RAINE	P
38	1613200098	RAHUL KUMAR	P
39	1613200099	RAHUL KUMAR DIXIT	P
40	1613200100	RAHUL RAO AMBEDKAR	P
41	1613200104	RAVI RANJAN	P





DEPARTMENT OF CIVIL ENGINEERING

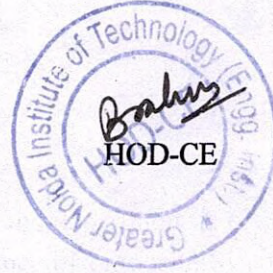
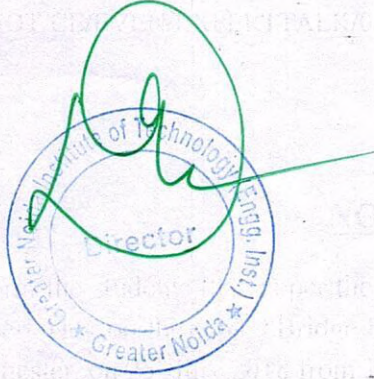
Ref: - No. GNIOT/CE/EVEN/EXPERTTALK/02

Date: 22.07.2018

NOTICE

This is to inform the students that as per the academic calendar the department is organizing an online Expert Talk on the topic "Bridge Strengthening Advanced Composite System" for the current semester, on 25th July 2018 from 10 AM to 11 AM.

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





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

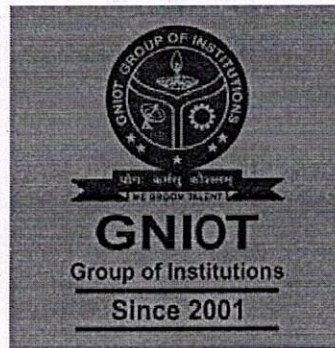
Expert Talk

On-

**“BRIDGE STRENGTHENING ADVANCED COMPOSITE
SYSTEM”**

25 JULY 2018

Organized by



**Department of Civil Engineering
Greater Noida Institute of Technology, Greater Noida**





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

Name of Event: Expert Talk

Date of Event: 25th July 2018

Organized by: Department of CE

Event Moderator: Mr. Vikas Nagar

Topic: Bridge Strengthening Advanced Composite System

Event Poster:

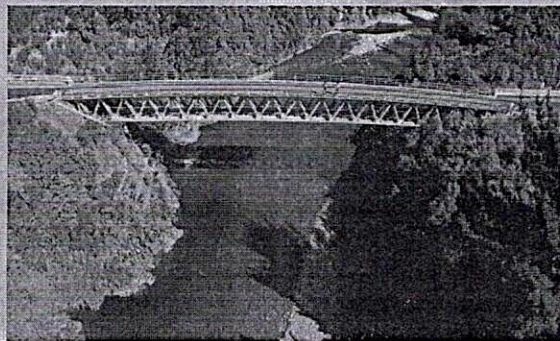


Department of
Civil Engineering

is organizing

an Expert Talk on

Bridge Strengthening:
Advanced Composite System



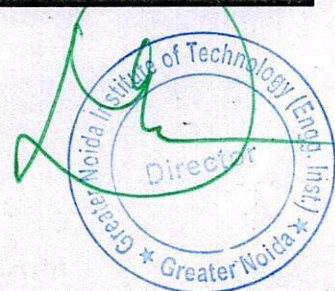
25.07.2018

10-11 am

Google Meet

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

FOLLOW US



Event Description: A talk on "Bridge Strengthening Advanced Composite System" was delivered by Mr. Vivek Singh, Assistant Professor, JIMS, IP University, virtually on Google Meet. The talk focused on the use of advanced composite materials in bridge strengthening, with particular emphasis on the advanced composite system (ACS).

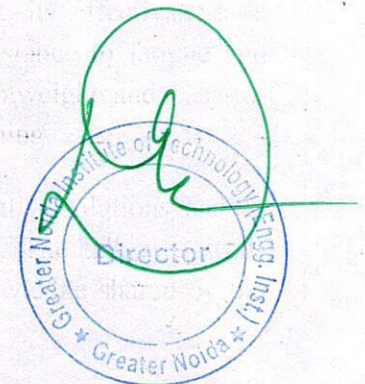
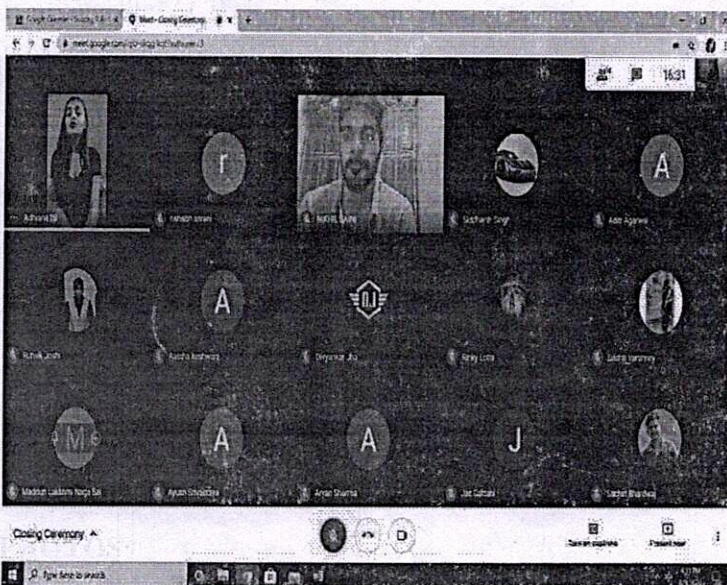
Mr. Singh began by discussing the importance of maintaining aging infrastructure, particularly bridges, to ensure the safety of users. He then highlighted the benefits of using advanced composite materials, such as carbon fiber reinforced polymer (CFRP) plates and epoxy resins, in retrofitting existing structures.

The ACS, Mr. Singh explained, is applied externally to the bridge's underside, providing additional flexural and shear strength. Mr. Singh went on to explain the steps involved in applying the ACS, including surface preparation, epoxy resin application, and CFRP plate positioning.

The talk emphasized the numerous benefits of the ACS, including its effectiveness in increasing the load-carrying capacity of a bridge, improving its resistance to fatigue and cracking, and reducing maintenance requirements. The system's lightweight and easy-to-apply nature also makes it a cost-effective solution for bridge strengthening.

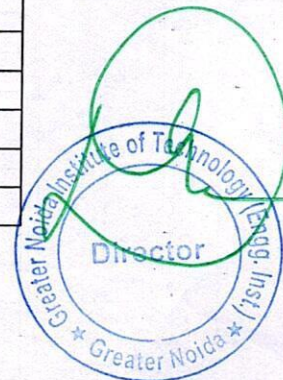
In conclusion, Mr. Singh highlighted the importance of adopting innovative solutions such as the ACS to ensure the safety and longevity of aging infrastructure. The talk was well-received by attendees, who appreciated the practical insights and knowledge shared by the expert speaker.

PHOTOS:



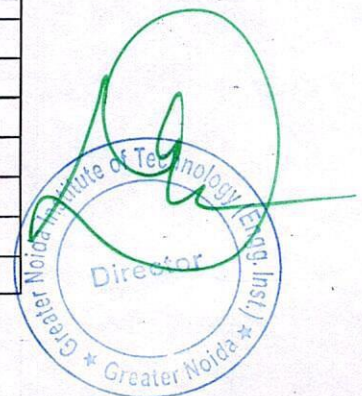
List of the participants

SL NO	ROLL NO	NAME	ATTENDANCE
1	1613200016	AMRENDRA PATHAK	P
2	1613200030	DILSHAD SAIFI	P
3	1613200031	DUSHYANT KUMAR	A
4	1613200103	RASHID ANWAR	P
5	1613200113	SHADAB ANWER	P
6	1613200116	SHARIB KHAN	P
7	1613200120	SINGH AMAR AJAY KUMAR	A
8	1613200123	SUMIT SHEKHAR	P
9	1613200132	YASH TRIPATHI	P
10	1613200133	YASH ANAND	P
11	1613200135	ZAUHAR ALI	P
12	1713200001	ABHIRAM SHARMA	A
13	1713200002	ADITYA KARAN	A
14	1713200004	AHAMAD RAZA	P
15	1713200005	AKSHAY SINHA	P
16	1713200012	ANIT KUMAR	P
17	1713200013	ANKIT KUMAR	P
18	1713200014	ANKIT SINGH	P
19	1713200015	ARIF REZA	A
20	1713200016	ASHWINI SINGH	P
21	1713200017	ASIF NABI	A
22	1713200019	AVINASH KUMAR	P
23	1713200021	AVINASH SINGH BAGHEL	P
24	1713200023	BRIJESH YADAV	P
25	1713200028	DEVESH PONIYA	P
26	1713200030	GAURAV CHAUHAN	P
27	1713200031	JAVED AKHTAR	P
28	1713200032	JUNAID RANA	P
29	1713200034	KOUSHAL YADAV	A
30	1713200035	KUMAR ANSHUMAN	A
31	1713200054	PRAMOD RAI	A
32	1713200055	PRASHANT GANGWAR	P
33	1713200056	PRAVEEN PATHAK	P
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37	1713200061	SAIF ALAM	P
38	1713200062	SANJAY SINGH	A



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56	1613200027	DEEPAK KUMAR SAH	P
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58	1613200029	DIGAMBER YADAV	P
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60	1413200128	POOJA KUMARI	P
61	1413200187	SHUBHAM MISHRA	P
62	1413200195	SUDHANSHU SRIVASTAVA	P
63	1413200205	VANSH SAHOTA	P
64	1413200214	VIPUL KAUNDAL	A
65	1513200011	ABHISHEK CHAURASIA	P
66	1513200012	ABHISHEK KUMAR	P
67	1513200013	ABHISHEK KUMAR	A
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70	1513200020	AKASH GUPTA	P
71	1513200022	AKRAM ABBAS AHMAD	P
72	1513200026	AMAN SINGH	P
73	1513200030	AMIT YADAV	P
74	1513200031	ANAND KUMAR	A
75	1513200033	ANAND VAIBHAV	P
76	1513200039	ANKUSH AGGARWAL	P
77	1513200041	ANURAG SETH	P
78	1513200042	ANURAG SHARMA	A
79	1513200043	ARVIND SINGH	P
80	1513200045	ASHAB ALAM	P
81	1513200046	ASHISH DIXIT	P

81/21





DEPARTMENT OF CIVIL ENGINEERING

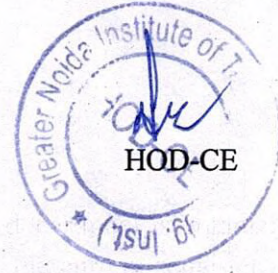
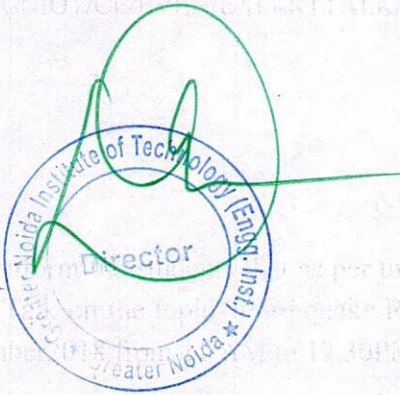
Ref: - No. GNIOT/CE/EVEN/EXPERTTALK/034

Date: 19.09.2018

NOTICE

This is to inform the students that as per the academic calendar the department is organizing an Expert Talk on the topic "Earthquake Resistant Techniques" for the current semester, on 21st September 2018 from 11 AM to 12.30PM in the Seminar Hall, GNIOT.

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





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

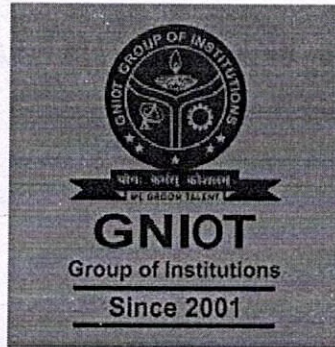
Expert Talk

On

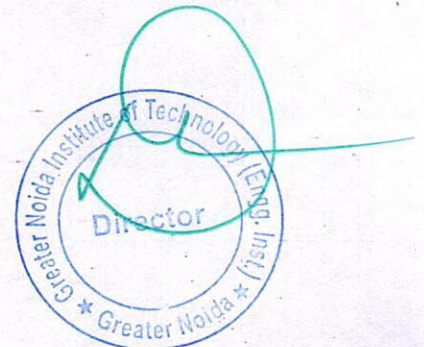
“EARTHQUAKE RESISTANT TECHNIQUES”

21 September 2018

Organized by



**Department of Civil Engineering
Greater Noida Institute of Technology, Greater Noida**





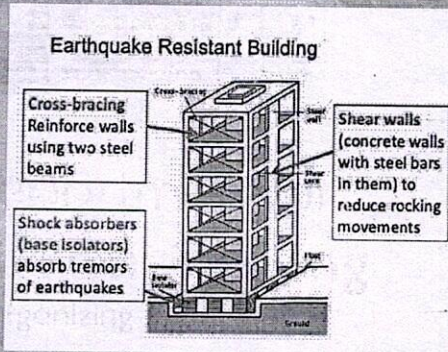
Name of Event: Expert Talk
Date of Event: 21st September 2018
Organized by: Department of CE
Event Moderator: Ms. Vashwati Ghosh
Topic: Earthquake Resistant Techniques

Event Poster:



Department of
Civil Engineering
 is organizing

**Expert Lecture
 on
 Earthquake Resistant
 Techniques**



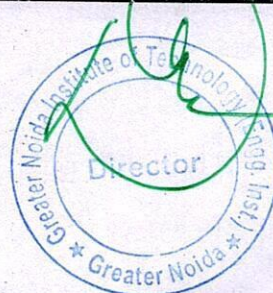
21.09.18

11 am to 12.30 pm

seminar hall 1st floor

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

FOLLOW US



Event Description: Mr. Kamal Kumar Pandey, a Structural Design Engineer from Lucknow, gave a talk on "Earthquake Resistant Techniques" at the seminar hall of GNIOT. The talk aimed to educate the audience about the importance of designing earthquake-resistant structures and the various techniques involved in it.

Mr. Pandey started the talk by discussing the causes of earthquakes and their impact on structures. He highlighted that the main reason behind earthquakes is the movement of tectonic plates in the Earth's crust. When the plates move, they create seismic waves, which cause vibrations in the ground. If the vibrations are strong enough, they can cause buildings and other structures to collapse.

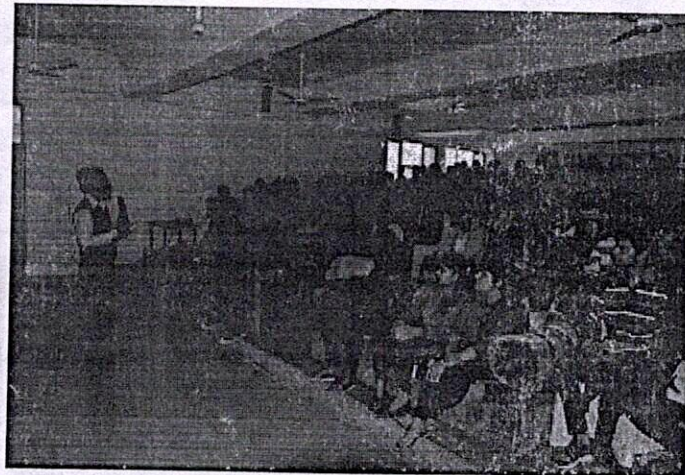
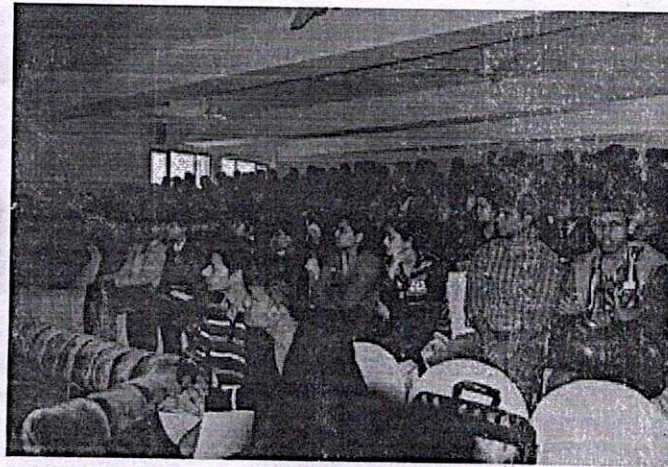
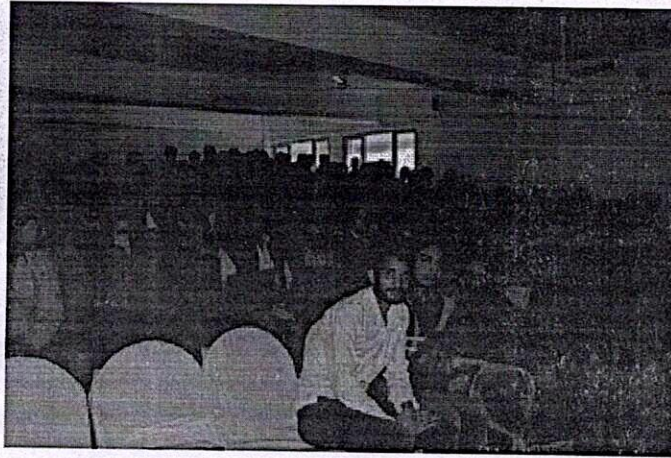
He then talked about the different techniques used to make buildings earthquake-resistant. One of the primary techniques is to use reinforced concrete in construction. Reinforced concrete is a combination of concrete and steel, which makes it more resilient to earthquakes. Steel is added to concrete to increase its tensile strength, making it less likely to crack or break under stress.

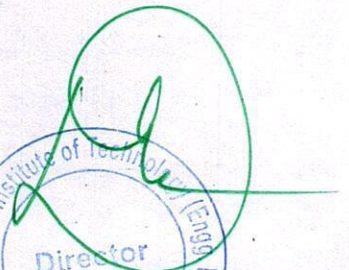
Another technique is to use seismic isolation systems, which are designed to absorb the energy generated by an earthquake. These systems work by using dampers or springs to reduce the amount of force transferred to the structure. This technique is commonly used in high-rise buildings, bridges, and other large structures.

In conclusion, Mr. Pandey's talk provided valuable insights into earthquake-resistant techniques. He stressed the importance of using reinforced concrete, seismic isolation systems, and proper planning and design to create structures that can withstand earthquakes. The talk was informative and engaging, and it was well-received by the audience. Overall, it was a great learning experience for everyone who attended the talk.



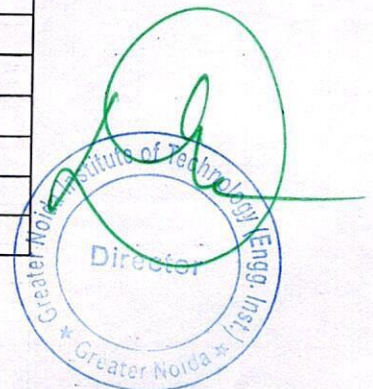
PHOTOS:





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

List of the participants

SL NO	ROLL NO	NAME	ATTENDANCE
1	1613200016	AMRENDRA PATHAK	P
2	1613200030	DILSHAD SAIFI	P
3	1613200031	DUSHYANT KUMAR	A
4	1613200103	RASHID ANWAR	P
5	1613200113	SHADAB ANWER	P
6	1613200116	SHARIB KHAN	P
7	1613200120	SINGH AMAR AJAY KUMAR	P
8	1613200123	SUMIT SHEKHAR	A
9	1613200132	YASH TRIPATHI	P
10	1613200133	YASH ANAND	P
11	1613200135	ZAUHAR ALI	P
12	1713200001	ABHIRAM SHARMA	P
13	1713200002	ADITYA KARAN	A
14	1713200004	AHAMAD RAZA	P
15	1713200005	AKSHAY SINHA	P
16	1713200012	ANIT KUMAR	A
17	1713200013	ANKIT KUMAR	P
18	1713200014	ANKIT SINGH	P
19	1713200015	ARIF REZA	P
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21	1713200017	ASIF NABI	P
22	1713200019	AVINASH KUMAR	A
23	1713200021	AVINASH SINGH BAGHEL	P
24	1713200023	BRIJESH YADAV	A
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42	1713200066	SAURABH KUMAR PATEL	P
43	1713200067	SAURABH SINGH	P
44	1713200068	SAURAV SINGH	P
45	1713200069	SEJAL BARANWAL	P
46	1713200070	SHAHBAZ KHAN	A
47	1713200071	SHASHANK VERMA	P
48	1713200072	SHIVAM YADAV	P
49	1713200073	SONU KUMAR	A
50	1713200074	SUNIL YADAV	P
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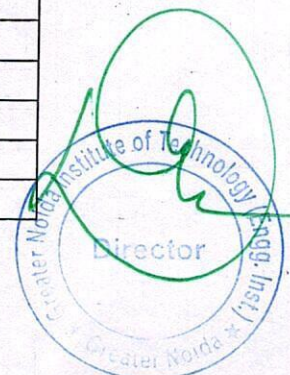
Director
 Greater Noida Institute of Technology (Engg. Instt.)
 Greater Noida

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111	1613200104	RAVI RANJAN	P
112	1613200105	RAVI PRAKASH SINGH	P
113	1613200107	RISHAV KUMAR	P
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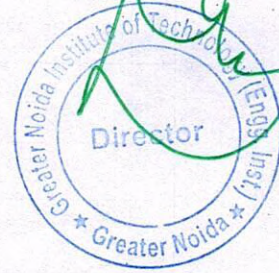


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144	1513200022	AKRAM ABBAS AHMAD	P
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169	1513200074	HARSH BHATT	A
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Department of Mechanical Engineering

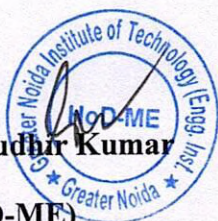
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Date: 13th September 2018**NOTICE**

It is hereby informed to all faculty and the students of 4th year that as per the academic calendar the Mechanical Engineering Department is organizing workshop on "TAGUCHI TECHNIQUE FOR QUALITY ENGINEERING on 19th Sept. 2018.

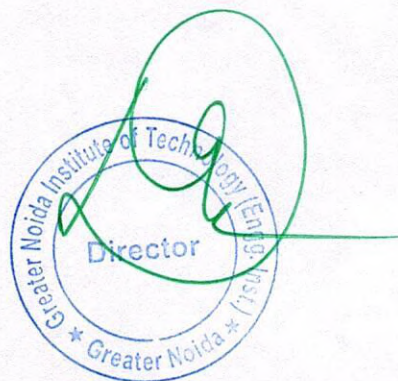
The students are advised to present in full strength and take the maximum benefit from the event.

Dr. Sudhir Kumar
(HOD-ME)



Copy to;

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



“Workshop”

On

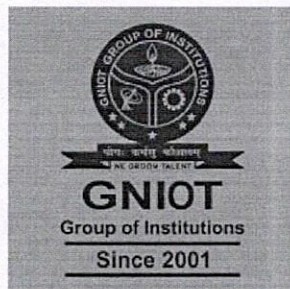
TAGUCHI TECHNIQUE FOR QUALITY INEERING

19 September, 2018 (9:00 AM to 5:00 PM)

REPORT

Organized by

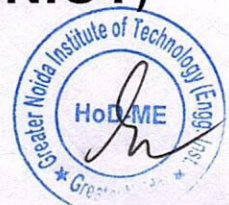
Department of Mechanical Engineering



Greater Noida Institute of Technology (GNIOT)

Knowledge park-II, Greater Noida– 201308

www.gniot.net.in

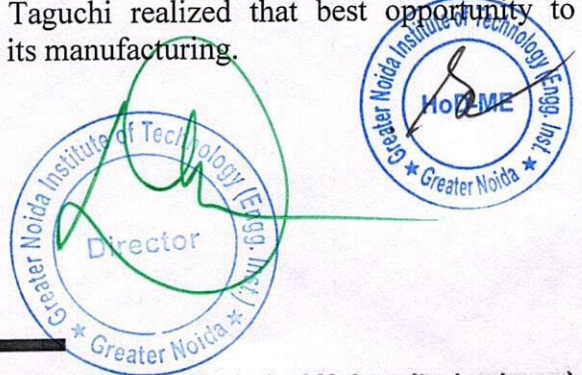


Activity Report**Department:- Mechanical Engineering****Activity:-** WORKSHOP ON “TAGUCHI TECHNIQUE FOR QUALITY ENGINEERING”**Duration:-** 19th Sept. 2018**Venue:-** GREATER NOIDA INSTITUTE OF TECHNOLOGY, GREATER NOIDA**Participants:-** ALL FACULTY MEMBERS AND MECHANICAL FINAL YEAR STUDENTS**About the activity:**

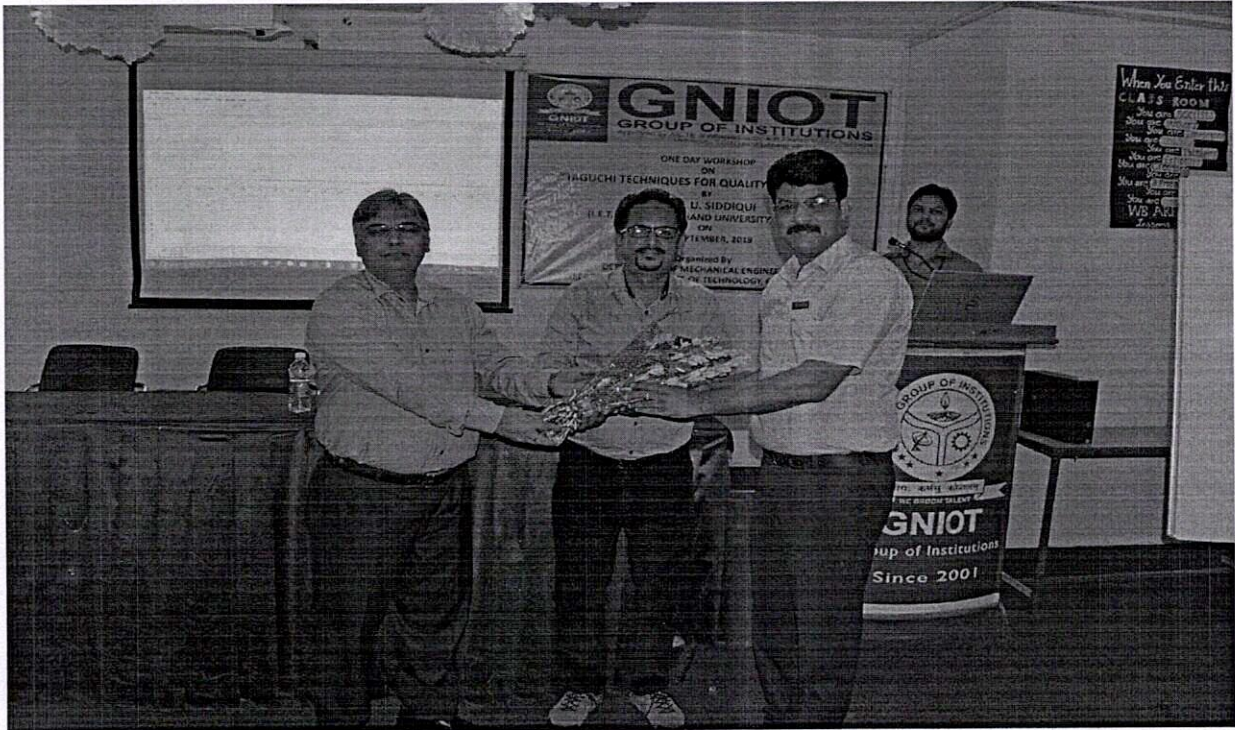
Greater Noida Institute of Technology organized a workshop on ‘**TAGUCHI TECHNIQUE FOR QUALITY ENGINEERING**’ for the students of final year. This workshop was organized to produce technical skill in the field of designing to fulfill the need of Indian Industry and adopt latest technologies to improve production quality, accuracy and efficiency. The aim of workshop was to train and provide hand on experience on **Minitab-18** software (trial version) to optimize design of experiment (DOE) by using Taguchi technique.

Experimental design is regarded as a very useful tool in the areas of R&D for all Engineering disciplines, Quality Control and Reliability Engineering. Design of experiments (DOE) is a systematic approach to engineering problem solving. It applies principles and techniques at the data collection stage to ensure the generation of valid, defensible and supportable engineering conclusions. All this is carried out under the constraint of minimal expenditure of engineering runs, time, and money.

Taguchi method (TM) is an important tool for robust process design and provides a simple and systematic way to optimize design for performance, quality and cost. TM defines the quality of a product, in terms of the loss imparted by the product due to deviation of the product’s functional characteristic from its desired value. The uncontrollable external factors which cause the functional characteristics of a product to deviate from their target values are called noise factors such as temperatures and human factors, etc. (Ross, 2005). Taguchi realized that best opportunity to eliminate variation is during the design of a product and its manufacturing.



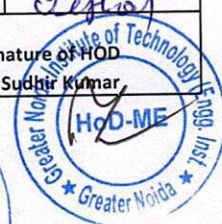
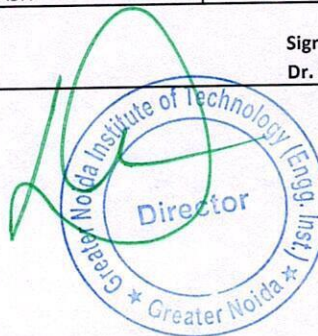
Photographs:





Department of Mechanical Engineering				
List of Students				
S. No.	Roll No	Name of the Student	Year & Section	Signature
1	1313240051	DEV DUTT VERMA	4A	D Verma
2	1313240052	DILIP KUMAR GAUTAM	4A	D K Gautam
3	1313240077	KULDEEP KAUSHIK	4A	Kuldeep
4	1313240141	SAGAR KUMAR	4A	Sagar
5	1413240026	AMIT KUMAR	4A	Amit
6	1413240027	AMIT KUMAR	4A	Amit
7	1413240076	GUDDU KUMAR RAI	4E	Guddu Rai
8	1413240085	JAI SINGH	4E	Jai Singh
9	1413240095	MAYANK PRAKASH	4E	Mayank
10	1413240096	MAYUR GHOSH	4E	Mayur
11	1413240097	MD ANSAR ALAM	4E	Ansar
12	1413240102	MD. ISHTEYAQUE KHAN	4E	Ishteyaque Khan
13	1413240106	MD MISBAHUL IMAM	4E	Misbahul Imam
14	1413240118	MOHD AFSAR	4E	Mohd Afsar
15	1413240128	NAUROZ KHAN	4E	Nauroz Khan
16	1413240132	NEERAJ KUMAR PATEL	4B	Neeraj Patel
17	1413240133	NIKESH SINGH	4B	Nikesh
18	1413240136	PAVAN KUMAR JANMEDA	4E	Pavan Janmeda
19	1413240137	PRABHAT KUMAR	4E	Prabhat
20	1413240138	PRAMOD KUMAR YADAV	4E	Pramod Yadav
21	1413240139	PRASHANT DIXIT	4B	Prashant Dixit
22	1413240140	PRASHANT KUMAR	4E	Prashant Kumar
23	1413240141	PRASHANT SINGH	4B	Prashant Singh
24	1413240142	PRASHANT VARSHNEY	4B	Prashant Varshney
25	1413240143	PRASUN CHATURVEDI	4E	Prasun Chaturvedi
26	1413240146	PRAVIN KUMAR	4B	Pravin Kumar
27	1413240148	PRINCE KUMAR	4B	Prince Kumar
28	1413240150	PUNEET KUMAR	4B	Puneet Kumar
29	1413240151	PUSHPENDRA VERMA	4B	Pushpendra Verma
30	1413240154	RAJ KUMAR YADAV	4B	Raj Kumar Yadav
31	1413240157	RAJEEV KUMAR	4B	Rajeev Kumar
32	1413240169	RISHABH SHARMA	4B	Rishabh Sharma
33	1413240172	ROHIT KUMAR HALWAI	4B	Rohit Kumar Halwai
34	1413240173	ROHIT PANDEY	4B	Rohit Pandey
35	1413240174	SACHIN KUMAR	4B	Sachin Kumar
36	1413240175	SACHIN KUMAR	4B	Sachin Kumar
37	1413240177	SAKSHAM ARORA	4B	Saksham Arora
38	1413240198	SHIVAM SONI	4E	Shivam Soni
39	1413240201	SHUBHAM KUMAR	4E	Shubham Kumar
40	1413240204	SOMPRIYA RAJ	4E	Sompriya Raj
41	1413240210	SUNIL KUMAR	4E	Sunil Kumar
42	1413240216	SYED INTEKHAB AHMAD JAFRI	4E	Syed Intekhab Ahmad Jafri
43	1413240229	VISHAL PRAKASH	4E	Vishal Prakash

Signature of HOD
Dr. Sudhir Kumar



Department of Mechanical Engineering

Ref: - No. GNIOT/ME/ 2018/

Date: 20th September 2018**NOTICE**

It is hereby informed to all faculty and the students of 3rd year that as per the academic calendar the Mechanical Engineering Department is organizing workshop on "COMPOSITE FABRICATION VIA NOVEL FRICTION STIR PROCESSING TECHNIQUE on 26th Sept. 2018.

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

Dr. Sudhir Kumar
HOD-ME
(HOD-ME)

Copy to;

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

Director

“Expert Talk”

On

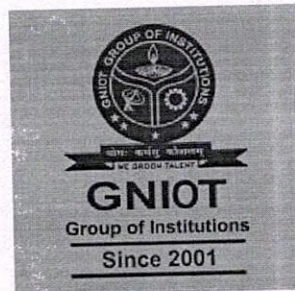
COMPOSITE FABRICATION VIA NOVEL FRICTION STIR PROCESSING TECHNIQUE

26 September, 2018(10:00 AM to 12:30 PM)

REPORT

Organized by

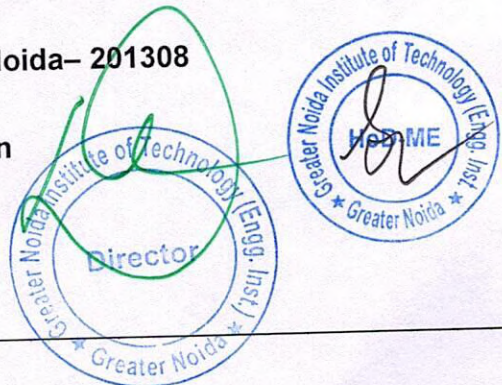
Department of Mechanical Engineering



Greater Noida Institute of Technology (GNIOT)

Knowledge park-II, Greater Noida- 201308

www.gniot.net.in



Activity Report

Department:- Mechanical Engineering

Activity:- EXPERT TALK ON “COMPOSITE FABRICATION VIA NOVEL FRICTION STIR PROCESSING TECHNIQUE”

Duration:- 26th Sept. 2018

Venue:- GREATER NOIDA INSTITUTE OF TECHNOLOGY, GREATER NOIDA

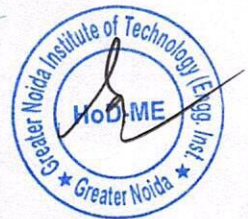
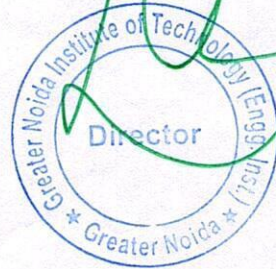
Participants:- ALL FACULTY MEMBERS AND MECHANICAL FINAL YEAR STUDENTS

About the activity:

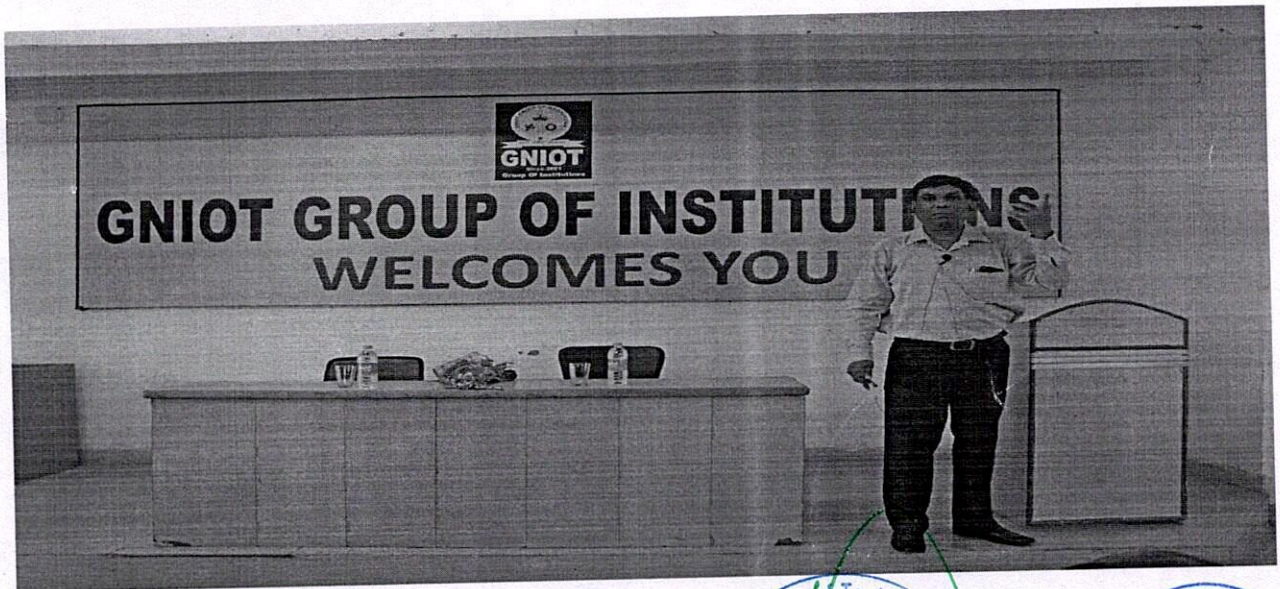
Greater Noida Institute of Technology organized a expert talk on “**COMPOSITE FABRICATION VIA NOVEL FRICTION STIR PROCESSING TECHNIQUE**” for the students of Mechanical third year. This talk was organized to produce technical skill in the field of welding and fabrication of composites to fulfill the need of Indian Industry and adopt latest welding technologies to improve production quality, accuracy and efficiency. The aim of workshop was to create awareness and knowledge about Friction Stir Processing.

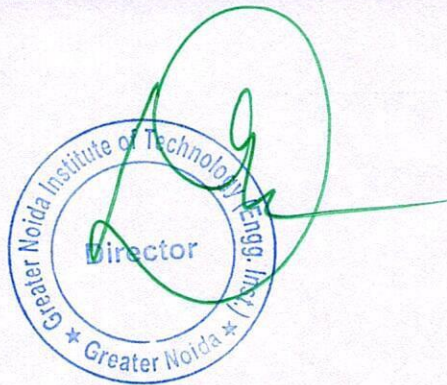
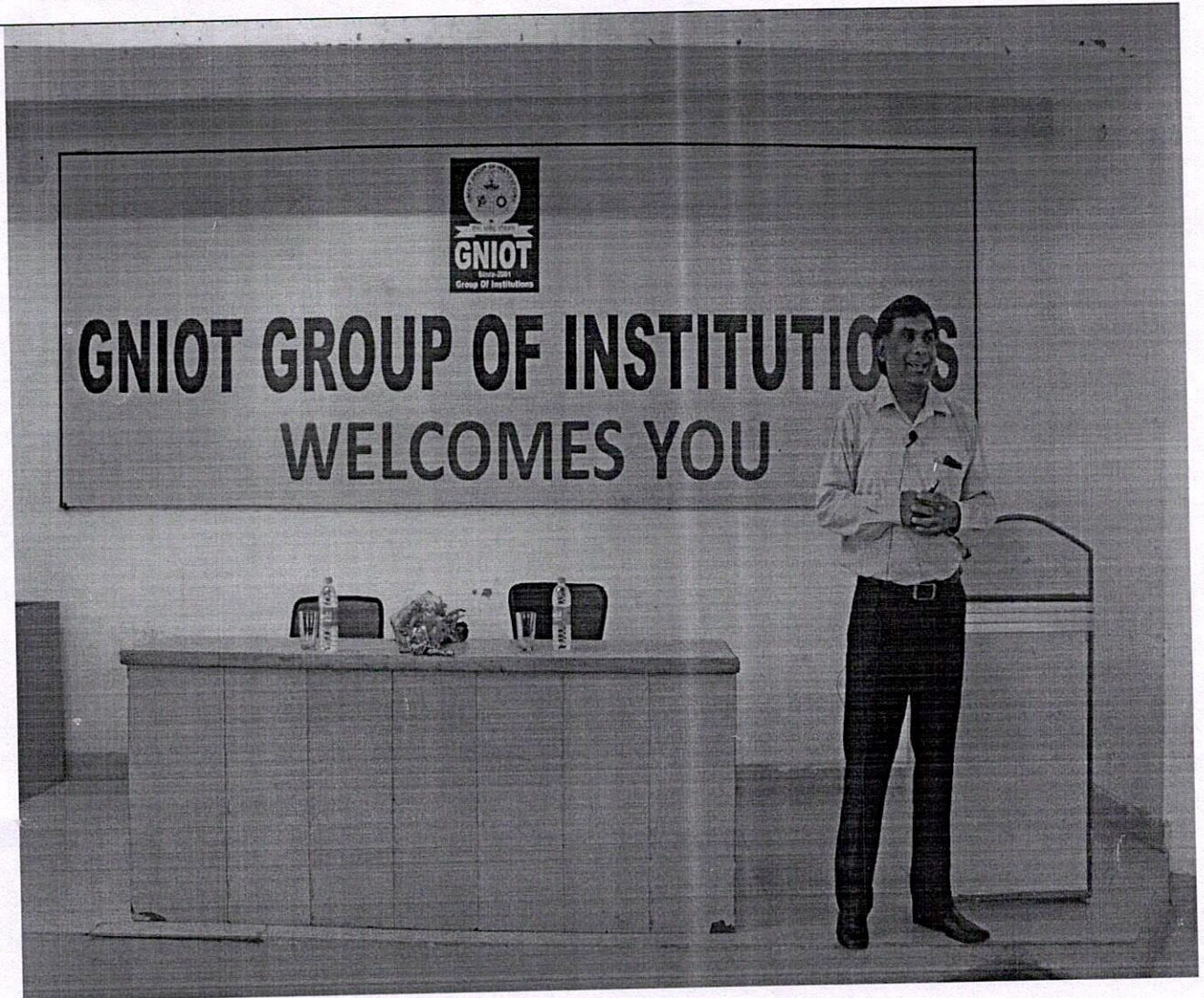
Friction Stir Processing is a solid state process evolved from FSW. And it is eco-friendly, versatile and energy efficient. This process is better than conventional process because in Friction Stir Processing we obtain low distortion, improved Mechanical properties, good surface finish and economical and this process does not require post process treatment.

During the talk students were shown the videos of Welding of two pipes which are joined by Friction Stir Processing.

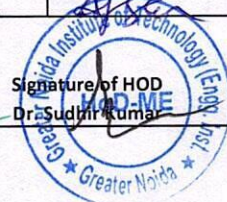
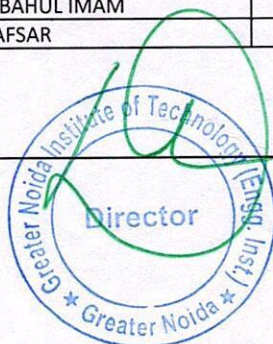


Photographs:





Department of Mechanical Engineering				
List of Students				
S. No.	Roll No	Name of the Student	Year & Section	Signature
1	1213240131	NEERAJ	4A	Neeraj
2	1313240005	AAYUSH BHARDWAJ	4A	Aayush Bhardwaj
3	1313240051	DEVDUPT VERMA	4A	Devdutt Verma
4	1313240052	DILIP KUMAR GAUTAM	4A	Dilip Kumar Gautam
5	1313240077	KULDEEP KAUSHIK	4A	Kuldeep
6	1313240141	SAGAR KUMAR	4A	Sagar
7	1313240156	SHIVAM	4A	Shivam
8	1413210138	SAKSHI	4A	Sakshi
9	1413240001	ABDUL AAHAD	4A	Abdul Ahmad
10	1413240002	ABHIJEET SAURAV	4A	Abhijeet
11	1413240024	AKASH SHARMA	4A	Akash
12	1413240025	AMAN KUMAR BHARDWAJ	4A	Aman Kumar Bhardwaj
13	1413240026	AMIT KUMAR	4A	Amit
14	1413240027	AMIT KUMAR	4A	Amit
15	1413240028	AMIT KUMAR DWIVEDI	4A	Amit Dwivedi
16	1413240029	AMIT KUMAR SINGH	4A	Amit Singh
17	1413240030	AMIT SAINI	4A	Amit
18	1413240033	ANKIT KUMAR SINGH	4A	Ankit
19	1413240036	ANSHU MAN PATHAK	4A	Anshu
20	1413240129	NAWAB SAQUIB FAISHAL	4B	Nawab
21	1413240132	NEERAJ KUMAR PATEL	4B	Nikesh
22	1413240133	NIKESH SINGH	4B	Nikesh
23	1413240139	PRASHANT DIXIT	4B	Prashant
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26	1413240146	PRAVIN KUMAR	4B	Pravish Sharma
27	1413240169	RISHABH SHARMA	4B	Rishabh
28	1413240172	ROHIT KUMAR HALWAI	4B	Rohit
29	1413240173	ROHIT PANDEY	4B	Rohit
30	1413240174	SACHIN KUMAR	4B	Sachin
31	1413240175	SACHIN KUMAR	4B	Sachin Kumar
32	1413240177	SAKSHAM ARORA	4B	Saksham
33	1413240076	GUDDU KUMAR RAI	4E	Guddu
34	1413240085	JAI SINGH	4E	Jai Singh
35	1413240095	MAYANK PRAKASH	4E	Mayank
36	1413240096	MAYUR GHOSH	4E	Mayur
37	1413240097	MD ANSAR ALAM	4E	Ansar Alam
38	1413240102	MD. ISHTEYAQUE KHAN	4E	Ishyaque
39	1413240106	MD MISBAHUL IMAM	4E	Misbahul
40	1413240118	MOHD AFSAR	4E	Mohd Afsar



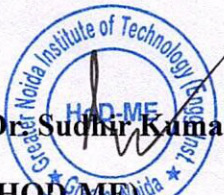
Department of Mechanical Engineering

Ref: - No. GNIOT/ME/ 2018/

Date: 3rd October 2018**NOTICE**

It is hereby informed to all faculty and the students that, one day workshop ON “DESIGN INNOVATION: IDEATION TO REALIZATION” will be held on 11th OCTOBER, 24th OCTOBER and 20th NOVEMBER 2018 at DESIGN INNOVATION CENTER (DIC), IIT-ROORKEE. The workshop will be organized by DESIGN INNOVATION CENTER (DIC), IIT-ROORKEE, and UTTARAKHAND.

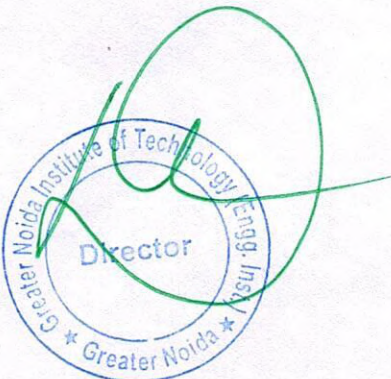
The students are advised to present in full strength and take the maximum benefit from the workshop.



Dr. Sudhir Kumar
(HOD-ME)

Copy to;

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2. All concerned
3. Notice boards



Director

“Workshop”

On

DESIGN INNOVATION: IDEATION O REALIZATION” AT DESIGN INNOVATION
CENTER (DIC), IIT- ROORKEE.

11th Oct. 2018 (First Visit)

24th OCTOBER, 2018 (Second Visit)

20th NOVEMBER, 2018 (Third Visit)

(9:00 AM to 5:00 PM)

REPORT

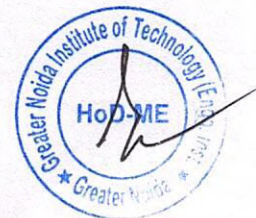
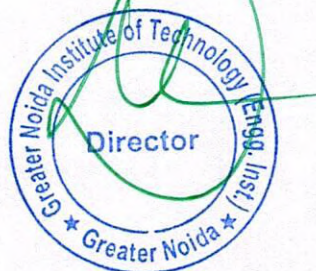
Organized by

Department of Mechanical Engineering

Greater Noida Institute of Technology (GNIOT)

With the association of

DESIGN INNOVATION CENTER (DIC), IIT-ROORKEE, UTTARAKHAND



Activity Report

Department:- Mechanical Engineering

Activity:- WORKSHOP ON “DESIGN INNOVATION: IDEATION TO REALIZATION” AT DESIGN INNOVATION CENTER (DIC), IIT- ROORKEE.

Duration:- 11th Oct. 2018 (First Visit)

24th OCTOBER, 2018 (Second Visit)

20th NOVEMBER, 2018 (Third Visit)

Venue:- DESIGN INNOVATION CENTER (DIC), IIT- ROORKEE

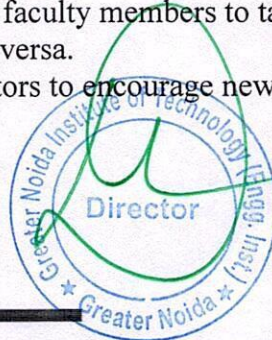
Participants:- TWO FACULTY MEMBERS AND 41 STUDENTS OF 3RD YEAR MECHANICAL ENGINEERING DEPARTMENT, GNIOT, GREATER NOIDA

About the activity:

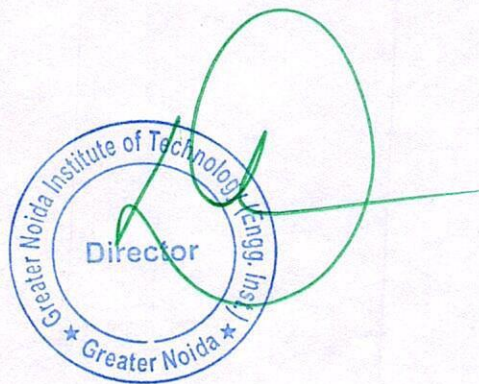
The Design Innovation Center (DIC), named “नवोन्मेष” at IIT Roorkee is a MHRD, Government of India approved center with the basic objective of creating design awareness. It is one of the twenty such centers which are developed under the national Initiative of the Ministry for setting up of DIC, Open Design School and National Design Innovation Network in the country. The center will thrive for developing design and innovation as a culture while primarily addressing the problems of the North-west Himalayan region.

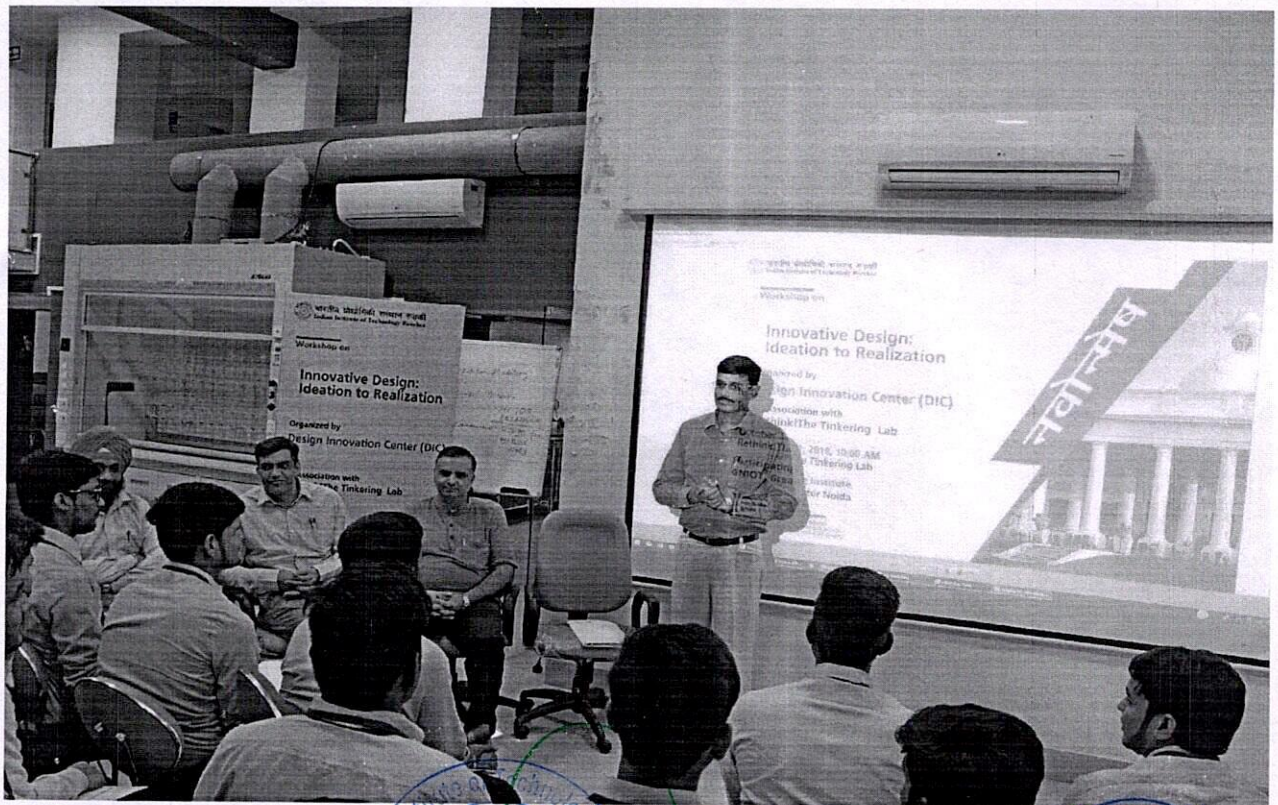
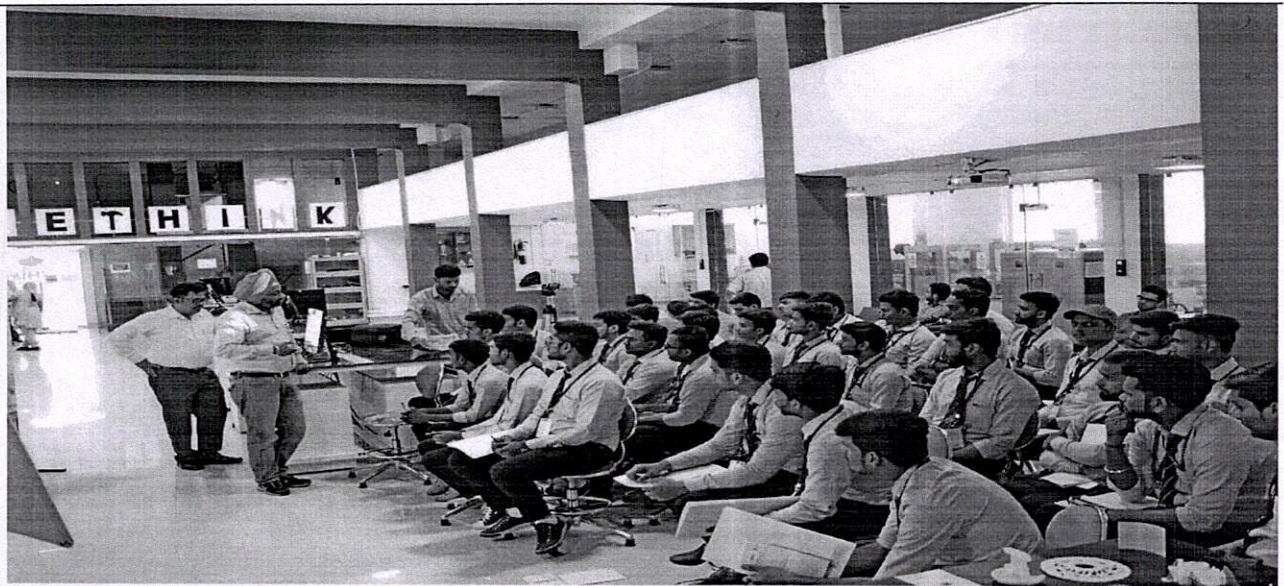
OBJECTIVES

- Develop innovative designs primarily addressing the local issues that need low cost solutions.
- Nurture and advance the culture of design and innovation in the region so as to impact the quality of human life.
- Create a culture of innovation and creative problem solving in the region, particularly in the Institutes of higher learning.
- Impart design-based education and practice systematic design approach through innovative products/projects.
- Create an ecosystem to facilitate students and faculty members to take their innovative ideas from classroom/lab to market /people and vice-versa.
- Provide a platform for the industrial collaborators to encourage new product development in the campuses using in house facilities.





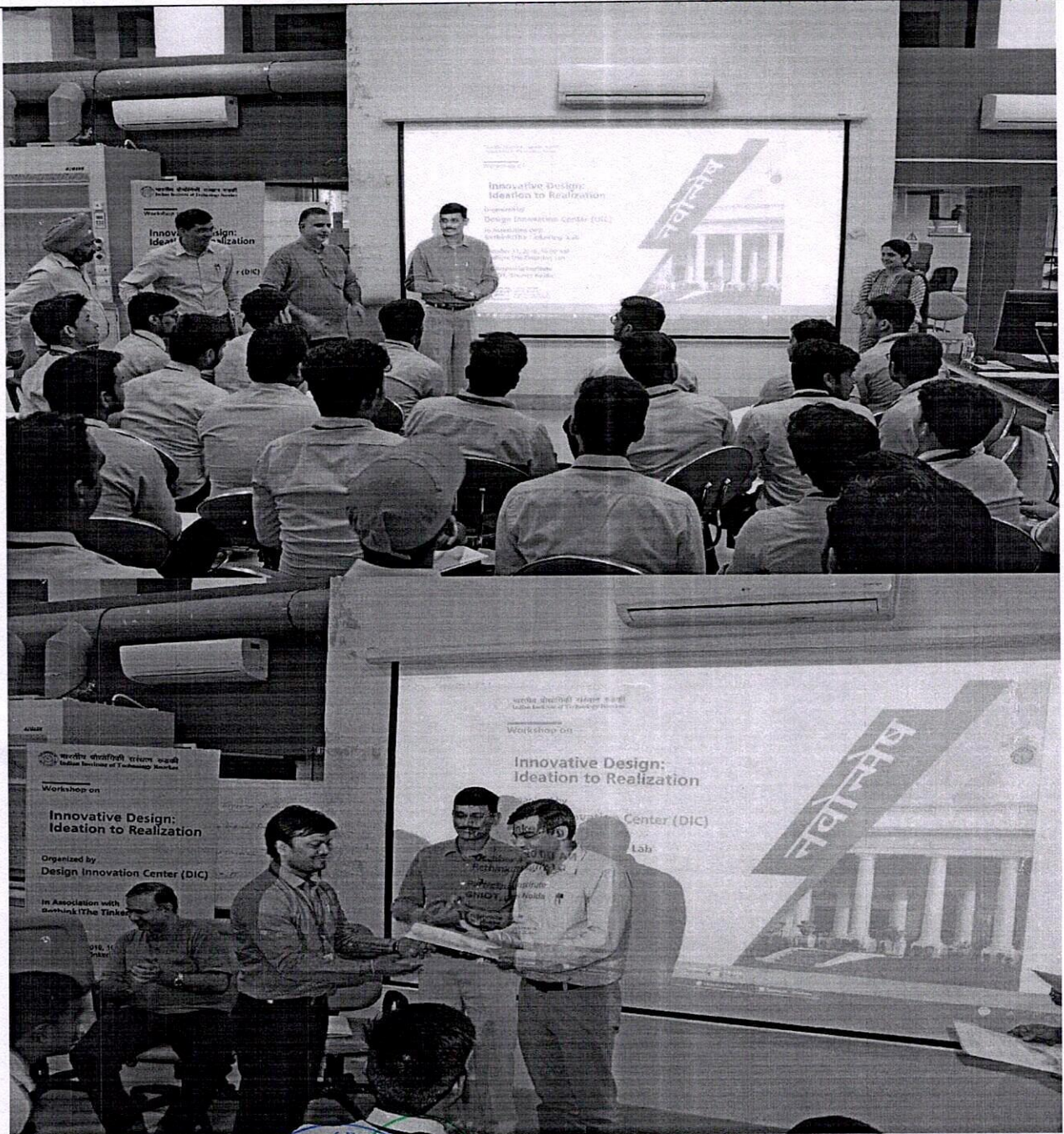






Greater Noida Institute of Technology (Engg. Inst.)
Director
Greater Noida

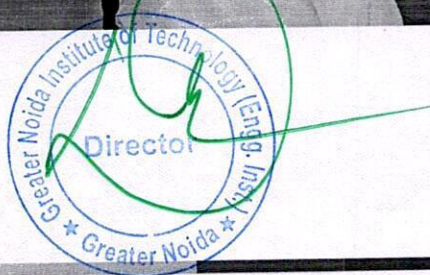
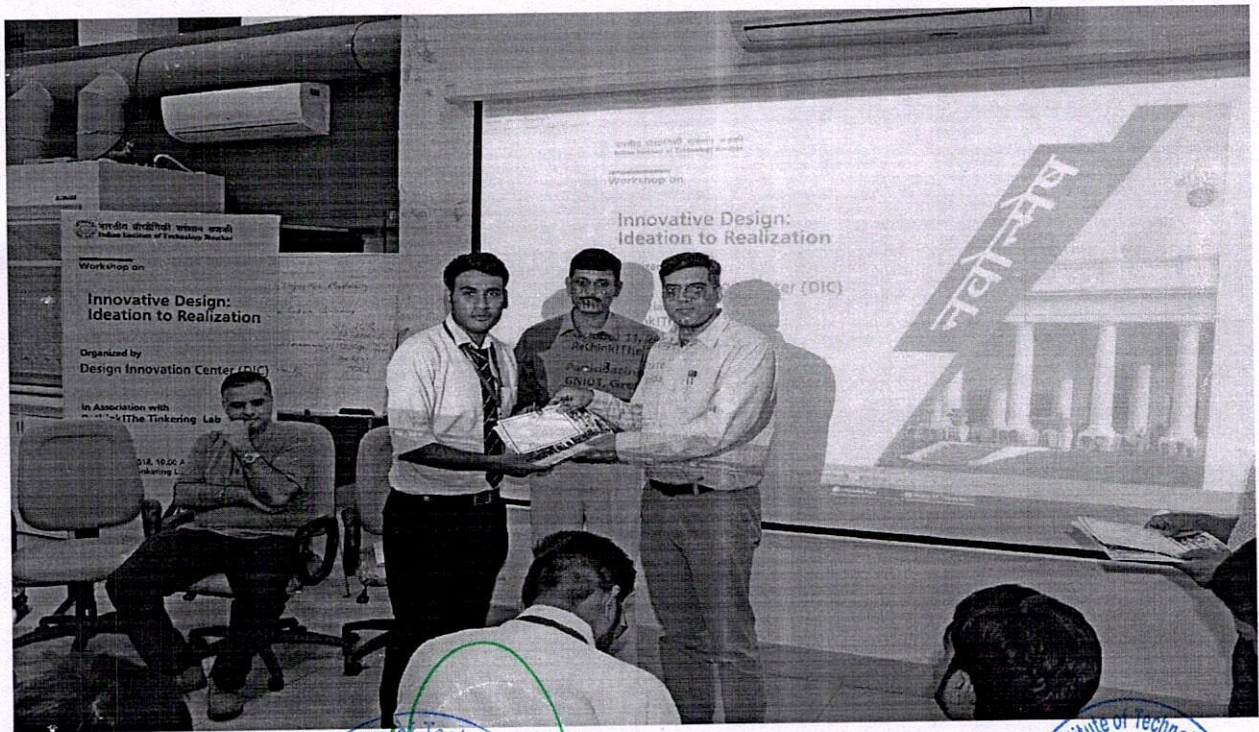
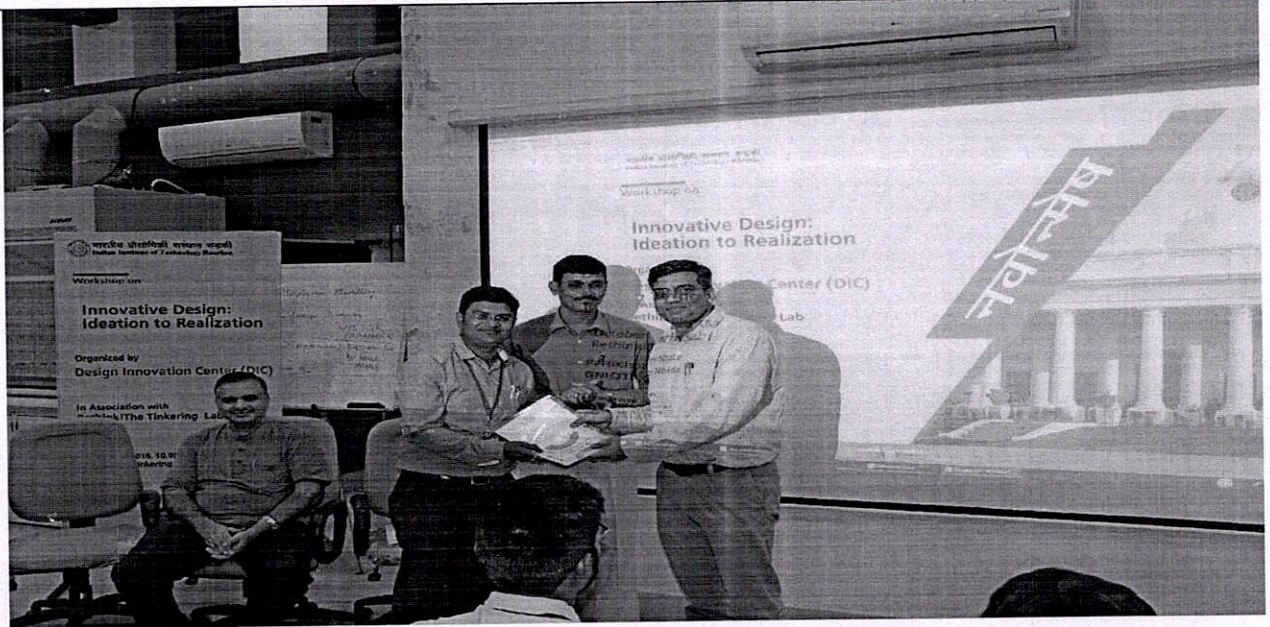
Greater Noida Institute of Technology (Engg. Inst.)
HOD-ME
Greater Noida

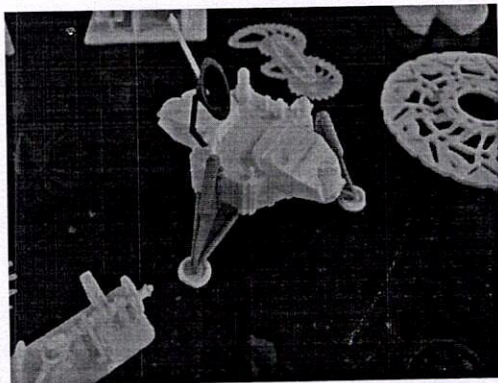
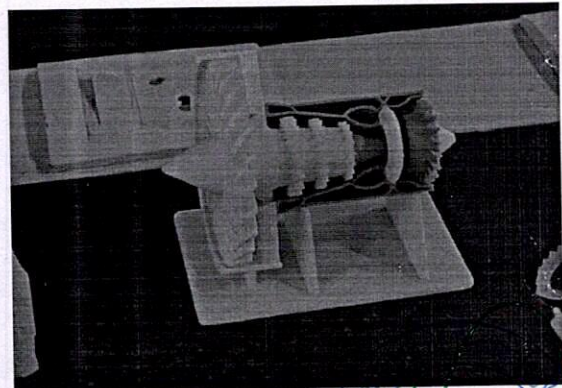
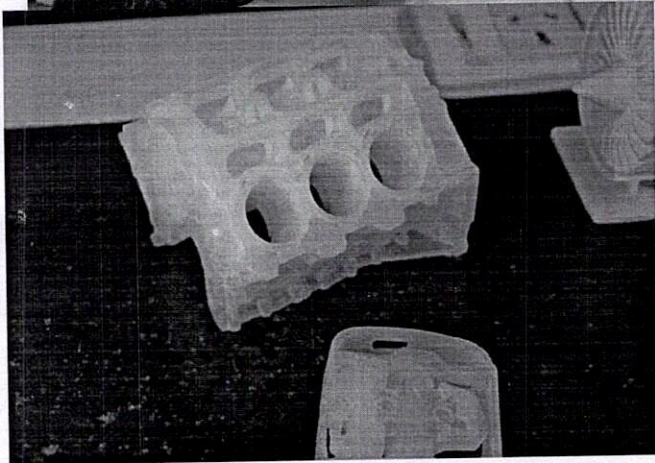
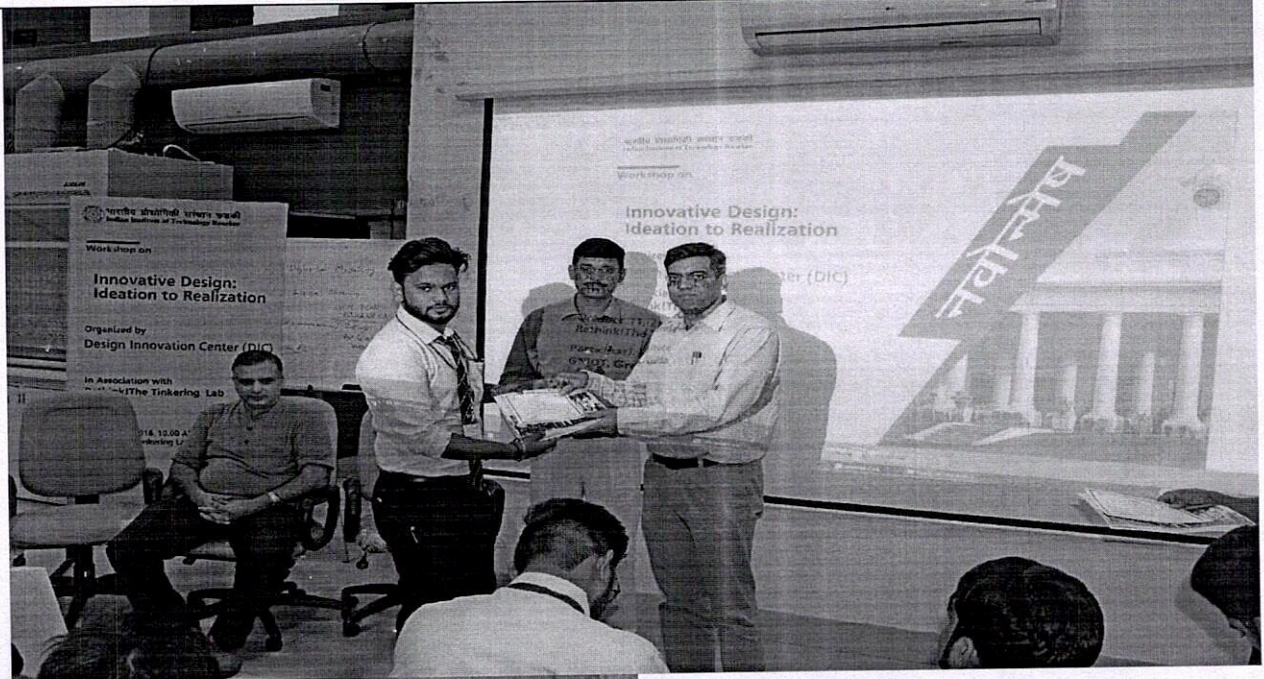


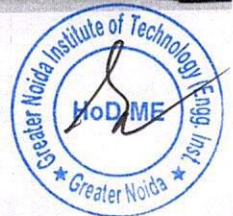
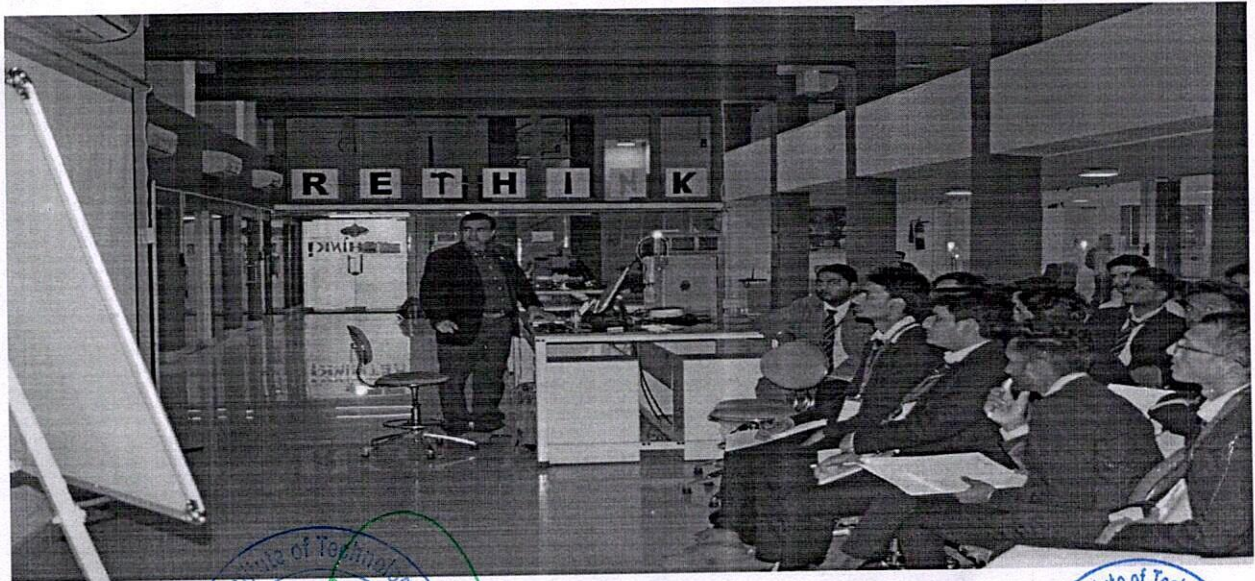
Greater Noida Institute of Technology (Engg. Inst.)
Director
Greater Noida

Greater Noida Institute of Technology (Engg. Inst.)
HOD-ME
Greater Noida

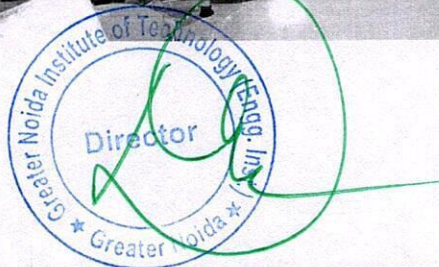
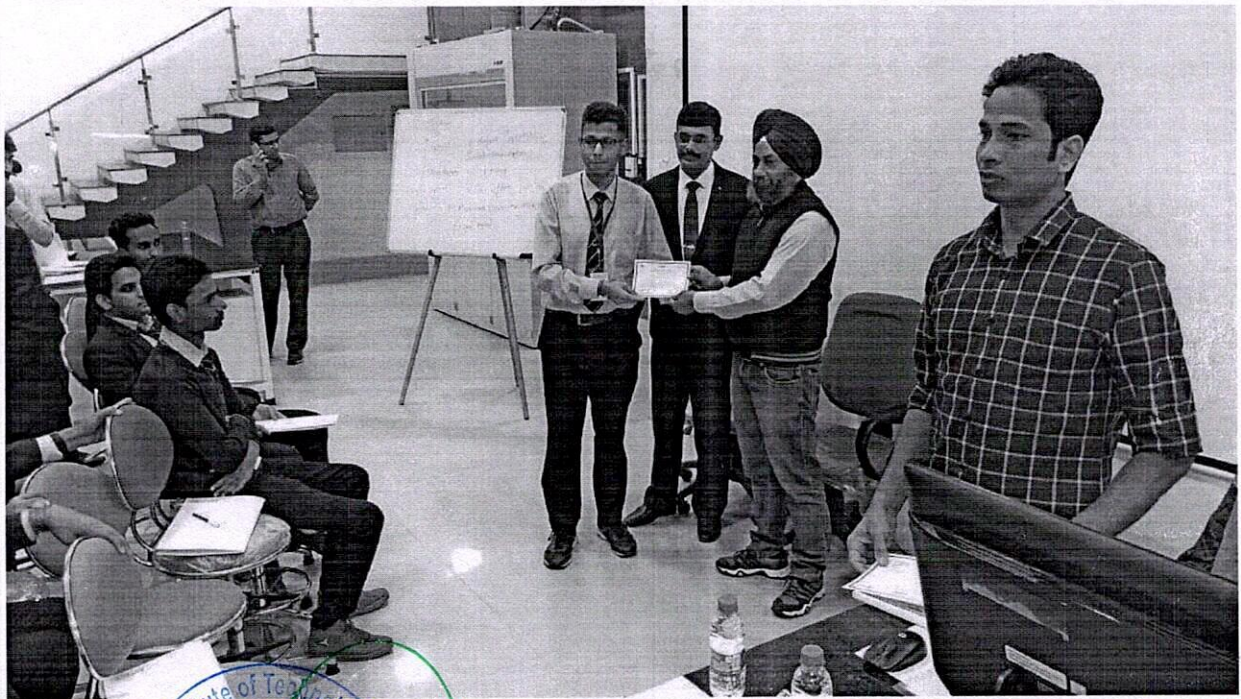
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 9 Plot No. 7, Knowledge Park-II, Greater Noida, Gautam Buddha Nagar, Uttar Pradesh-201310
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(Approved by AICTE, Delhi & Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow)
♀ Plot No.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



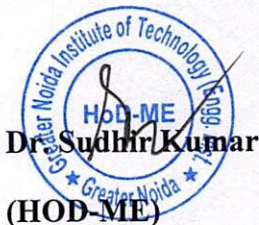
Department of Mechanical Engineering

Ref: - No. GNIOT/ME/ 2018/

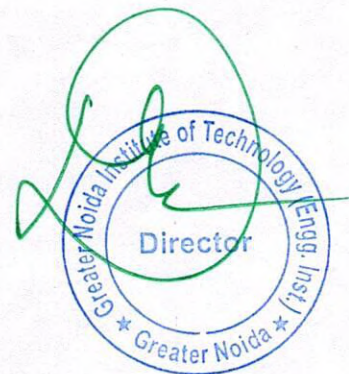
Date: 7th February 2019**NOTICE**

It is hereby informed to all faculty and the students of 3rd year that as per the academic calendar the Mechanical Engineering Department is organizing workshop on "HYBRID MACHINING" (ELECTROCHEMICAL DISCHARGE MACHINING) on 15th Feb. 2019.

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



Dr. Sudhir Kumar
(HOD-ME)



Director

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“Expert Talk”

On

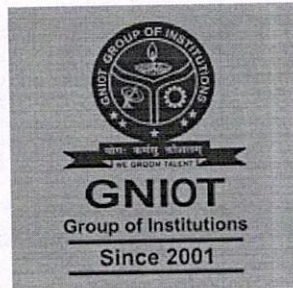
HYBRID MACHINING (ELECTROCHEMICAL DISCHARGE MACHINING)

15 February, 2019(10:00 AM to 12:30 PM)

REPORT

Organized by

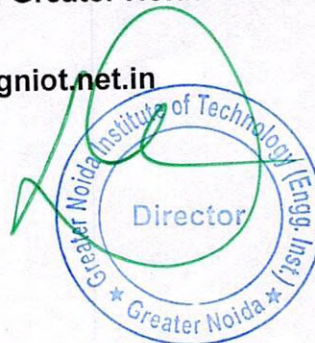
Department of Mechanical Engineering



Greater Noida Institute of Technology (GNIOT)

Knowledge park-II, Greater Noida– 201308

www.gniot.net.in



Activity Report

Department:- Mechanical Engineering

Activity:- EXPERT TALK ON “HYBRID MACHINING”
(ELECTROCHEMICAL DISCHARGE MACHINING)”

Duration:- 15th feb. 2019

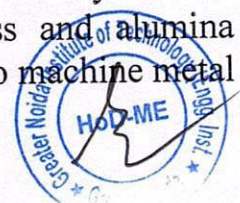
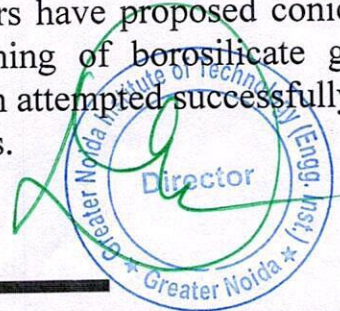
Venue:- GREATER NOIDA INSTITUTE OF TECHNOLOGY,
GREATER NOIDA

Participants:- ALL FACULTY MEMBERS AND MECHANICAL
THIRD YEAR STUDENTS

About the activity:

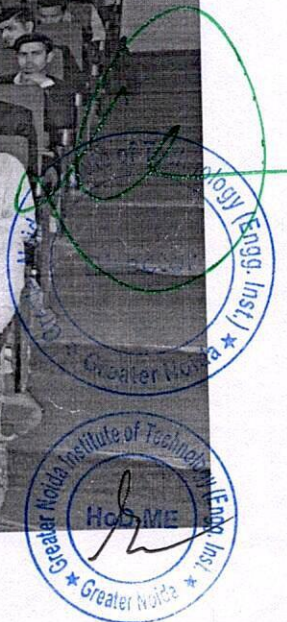
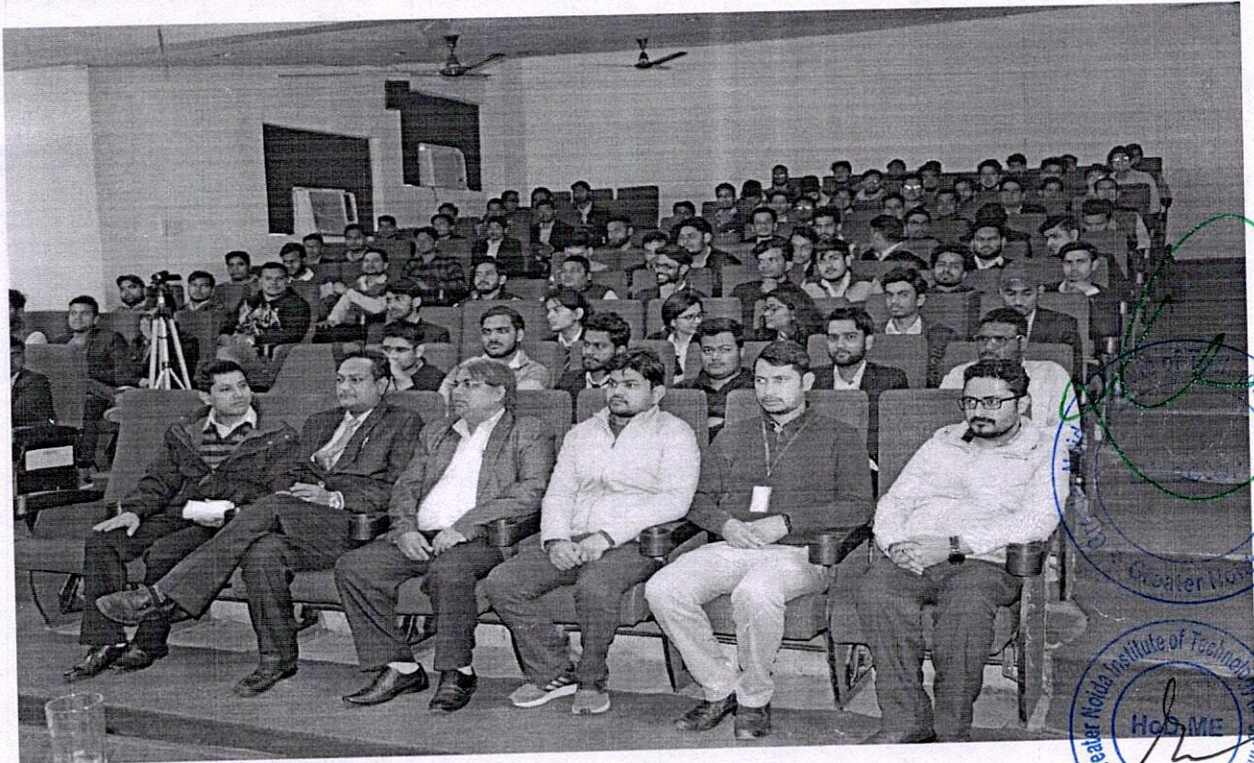
Electro Chemical Discharge Machining (ECDM) process is an advanced hybrid process used to machine electrically conducting as well as non-conducting materials. There are actually two different approaches, namely ECM and EDM in ECDM: (i) ECM dressing leads to an anodic dissolution of the layer and hence to a higher grain protrusion while (ii) EDM truing and dressing produces much smaller grain protrusion than the ECM process but it is of high macro-geometrical accuracy and therefore very suitable for the truing of metal bonded grinding wheels. In order to meet the highest standards concerning the macro-geometrical accuracy, i.e., dimension tolerance, accuracy of profile, roundness and eccentricity of the grinding wheel, the ECM phases have to be combined with EDM phases. It is possible to regulate the EDM and ECM phases of the ECDM process in order to obtain solely a dressing process or a combined truing and dressing process.

In order to make the appropriate contact between the abrasive particles and work surface, tool feed rate is mentioned as a critical parameter. ECDG has been used successfully to develop micro holes and to finish cylindrical surfaces (through center less grinding module of ECDM). Researchers have proposed conical and cylindrical shaped grinding wheels for better machining of borosilicate glass and alumina materials, respectively. This process has been attempted successfully to machine metal matrix composite material, alumina and glass.



Photographs:


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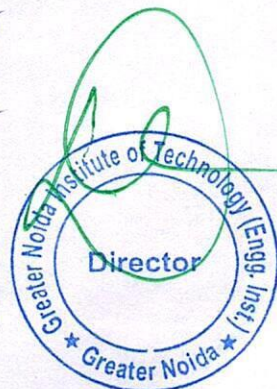


Department of Mechanical Engineering

List of Students

S. No.	Roll No	Name of the Student	Year & Section	Signature
1	1313240051	DEV DUTT VERMA	4A	Devdutt Verma
2	1313240052	DILIP KUMAR GAUTAM	4A	Dilip Kumar Gautam
3	1313240077	KULDEEP KAUSHIK	4A	Kuldeep Kaushik
4	1313240141	SAGAR KUMAR	4A	Sagar Kumar
5	1413240026	AMIT KUMAR	4A	Amit Kumar
6	1413240027	AMIT KUMAR	4A	Amit Kumar
7	1413240076	GUDDU KUMAR RAI	4E	Guddu Kumar Rai
8	1413240085	JAI SINGH	4E	Jai Singh
9	1413240095	MAYANK PRAKASH	4E	Mayank Prakash
10	1413240096	MAYUR GHOSH	4E	Mayur Ghosh
11	1413240097	MD ANSAR ALAM	4E	MD Ansar Alam
12	1413240102	MD. ISHTEYAQUE KHAN	4E	MD. Ishteyauque Khan
13	1413240106	MD MISBAHUL IMAM	4E	MD Misbahul Imam
14	1413240118	MOHD AFSAR	4E	Mohd Afsar
15	1413240128	NAUROZ KHAN	4E	Nauroz Khan
16	1413240132	NEERAJ KUMAR PATEL	4B	Neeraj Kumar Patel
17	1413240133	NIKESH SINGH	4B	Nikesh Singh
18	1413240136	PAVAN KUMAR JANMEDA	4E	Pavan Kumar Janmeda
19	1413240137	PRABHAT KUMAR	4E	Prabhat Kumar
20	1413240138	PRAMOD KUMAR YADAV	4E	Pramod Kumar Yadav
21	1413240139	PRASHANT DIXIT	4B	Prashant Dixit
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24	1413240142	PRASHANT VARSHNEY	4B	Prashant Varshney
25	1413240143	PRASUN CHATURVEDI	4E	Prasun Chaturvedi
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29	1413240151	PUSHPENDRA VERMA	4B	Pushpendra Verma
30	1413240154	RAJ KUMAR YADAV	4B	Raj Kumar Yadav
31	1413240157	RAJEEV KUMAR	4B	Rajeev Kumar
32	1413240160	RAKESH KUMAR	3C	Rakesh Kumar
33	1413240162	RAMENDRA MISHRA	3C	Ramendra Mishra
34	1413240203	SHUBHAM SAURAV	3C	Shubham Saurav
35	1513240022	AKANSHA SINGH	3C	Akansha Singh
36	1513240168	RAHIL REZA	3C	Rahil Reza
37	1513240169	RAHUL KUMAR	3C	Rahul Kumar
38	1413240198	SHIVAM SONI	4E	Shivam Soni
39	1513240110	MAYANK SHUKLA	3B	Mayank Shukla
40	1513240111	MAYANK SINGH	3B	Mayank Singh
41	1513240117	MD FAIQUE KHAN	3B	MD Faique Khan
42	1513240118	MD FARIDUL HAQUE	3B	MD Faridul Haque
43	1513240122	MD SAHIL RAZA	3B	MD Sahil Raza
44	1513240124	MD SHAHFAIZ	3B	MD Shahfaiz
45	1513240125	MD SHAHID RAZA	3B	MD Shahid Raza
46	1513240039	ANGAD MAURYA	3A	Angad Maurya
47	1513240040	ANKESH KUMAR SINGH	3A	Ankesh Kumar Singh
48	1513240041	ANKIT KUMAR GUPTA	3A	Ankit Kumar Gupta
49	1513240043	ANKIT RAJ	3A	Ankit Raj
50	1513240044	ANKIT SHUKLA	3A	Ankit Shukla
51	1513240045	ANKIT SRIVASTAVA	3A	Ankit Srivastava
52	1513240050	ARUN KUMAR	3A	Arun Kumar
53	1513240053	ASHFAK	3A	Ashfak
54	1413240210	SUNIL KUMAR	4E	Sunil Kumar
55	1413240216	SYED INTEKHAB AHMAD JAFRI	4E	Syed Intekhab Ahmad Jafri
56	1413240229	VISHAL PRAKASH	4E	Vishal Prakash

Signature of HOD
Dr. Sudh Kumar





GNIOT

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

Date: 09/07/2018

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 14/07/2018. Kindly register your name to the departmental coordinator Mr. Devendra Kumar.

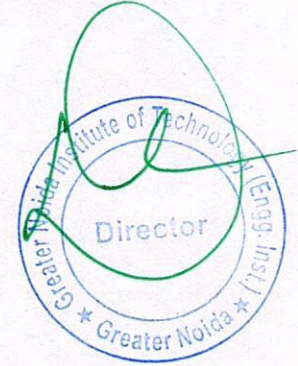
GATE scores are being used by several Indian public sector undertakings for recruiting graduate engineers' entry-level positions. It is one of the most important competitive examinations in India.

Note: Time-table is displayed on notice board.

*for
Dr. Ravindra*

Dr. Ravindra Kr Tewatia
HOD
C.E DEPTT

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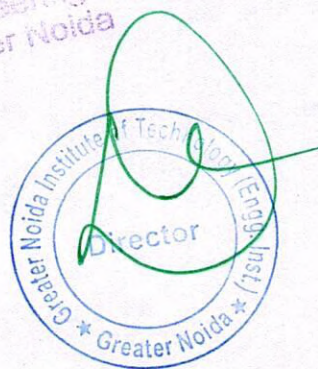


**Department of Electronics and Communication Engineering
GATE Classes (Module)**

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

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DETAILED SYLLABUS

Section 1: Engineering Mathematics

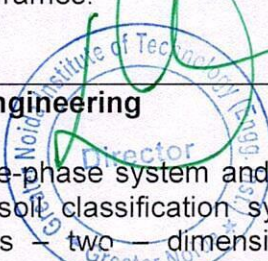
- Linear Algebra: Matrix Algebra, Systems of linear equations, Eigenvalues, Eigenvectors.
- Calculus: Mean value theorems, Theorems of integral calculus, Evaluation of definite and improper integrals, Partial Derivatives, Maxima and minima, Multiple integrals, Fourier series, Vector identities, Directional 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



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

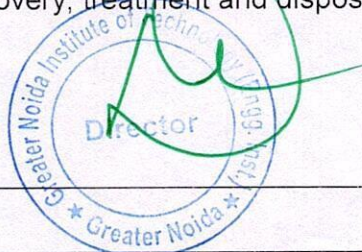
- **Foundation Engineering:** Sub-surface investigations – Drilling bore holes, sampling, plate load test, standard penetration and cone penetration tests; Earth pressure theories – Rankine and Coulomb; Stability of slopes – Finite and infinite slopes, Bishop's method; Stress distribution in soils – 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).



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for
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Transportation Engineering:

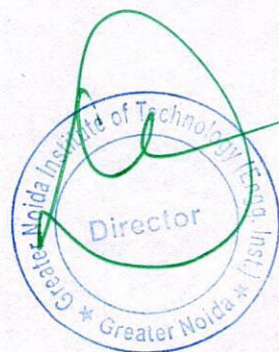
- **Transportation Infrastructure:** Geometric design of highways – cross-sectional elements, sight distances, horizontal and vertical alignments.
- Geometric design of railway Track – Speed and Cant,
- Concept of airport runway length, calculations and corrections; taxiway and exit taxiway design.
- **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.

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**CIVIL ENGINEERING (Code-CE)
Session (2019-20)**

Gate-2019 (Time Table)

w.e.f: 13/07/2019

S.N O	DATE/TIME	9:15-10:5	10:55-12:35	12:35-1:35	1:35-3:15	3:15-4:55
1	14 July 2018	EMc	SM	BREAK	SoM	EM
2	21 July 2018	SM	EMc		SoM	APT
3	28 July 2018	SoM	SM		EMc	EM
4	4 Aug 2018	EMc	SM		SoM	APT
5	11 Aug 2018	SM	EMc		SoM	EM
6	18 Aug 2018	SM	SoM		EMc	APT
7	1 Sep 2018	SE	Env		TE	EM
8	8 Sep 2018	Env	SE		TE	APT
9	15 Sep 2018	TE	Env		SE	EM
10	6 Oct 2018	SE	TE		Env	APT
11	13 Oct 2018	Env	SE		TE	EM
12	27 Oct 2018	TE	Env		SE	APT
13	3 Nov 2018	WRE	CT		GE	EM
14	10 Nov 2018	FE	WRE		CT	APT
15	17 Nov 2018	WRE	FE		CT	EM
16	27 Nov 2018	GE	FE		CT	APT
17	1 Dec 2018	GE	WRE		FE	EM
18	15 Dec 2018	GE	CT		WRE	APT
20	22 Dec 2018	WRE	FE		GE	APT

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Greater Noida*



*for
Approved*

Subject allotted to faculty members


SL No	Subjects	Faculty
1	Engineering mathematics (EM)	Dr. Nitash Kaushik
2	Engineering Mechanics	VIKAS NAGAR
3	Solid Mechanics	ANUPAM KUMAR SHARMA
4	Strength of materials	SUMAIYA KHANAM
5	Structural Engineering	SHUBHAM SINGH
6	Environmental Engineering	SACHIN TIWARI
7	Transportation Engineering	RAHUL GARG
8	Water Resources Engineering	VASHWATI GHOSH
9	Concrete Structures	SHUBHAM KUMAR
10	Geotechnical Engineering	MADHAV SHANKARAN
11	Foundation Engineering	DEVENDRA KUMAR
12	Aptitude (APT)	Mr. Deepanshu

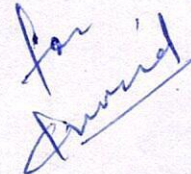
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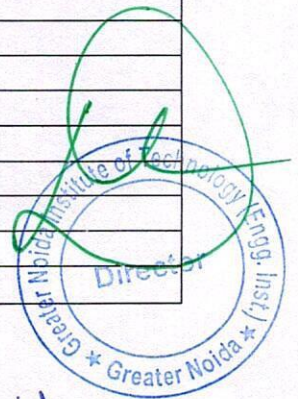
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for
Forward
Director
Greater Noida Institute of Technology
(Engg. Inst.)
Greater Noida

List of students

SL NO	ID NO	ROLL NO	NAME
1	140199	1413200090	MAYANK GOEL
2	150024	1513200186	SANDEEP KUMAR
3	150037	1513200011	ABHISHEK CHAURASIA
4	150322	1513200060	DHIRAJ KUMAR
5	150324	1513200181	SAGAR TYAGI
6	150366	1513200045	ASHAB ALAM
7	150387	1513200200	SHIVAM AGRAWAL
8	150403	1513200061	DHIRAJ KUMAR SAH
9	150408	1513200164	RAKSHIT KUMAR
10	150447	1513200052	AYUSH
11	150459	1513200059	DEEPAK SINGH
12	150515	1513200068	FARHAN KAZIM
13	150539	1513200183	SAIF AHMAD
14	150649	1513200074	HARSH BHATT
15	150658	1513200202	SHIVAM PATEL
16	150676	1513200026	AMAN SINGH
17	150677	1513200046	ASHISH DIXIT
18	150709	1513200188	SATISH
19	150731	1513200157	RAHUL KUMAR
20	150745	1513200073	HAMID ALI
21	150750	1513200049	ASHWINI KUMAR
22	150798	1513200178	ROHIT SINGH
23	150811	1513200031	ANAND KUMAR
24	150815	1513200041	ANURAG SETH
25	150822	1513200153	PRASHANT KUMAR MONGIA
26	150842	1513200050	ASIF IQBAL KHAN
27	150895	1513200224	UTKARSH TRIPATHI
28	150909	1513200020	AKASH GUPTA
29	150946	1513200017	ADNAN SUHAIL
30	150966	1513200179	S.M MEHRABUL ISLAM
31	150968	1513200066	FAIZ KAMIL
32	151086	1513200013	ABHISHEK KUMAR
33	151096	1513200166	RATNESH KUMAR ROUSHAN
34	151103	1513200022	AKRAM ABBAS AHMAD
35	151152	1513200185	SANDEEP KUMAR
36	151158	1513200030	AMIT YADAV
37	151296	1513200072	GULFAM ALI
38	151305	1513200039	ANKUSH AGGARWAL
39	151325	1513200043	ARVIND SINGH
40	160320	1613200910	FAIZAN AHMED KHAN
41	161027	1613200801	MD FAHAD
42	161047	1613200904	ANUJ PAL


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 Approval

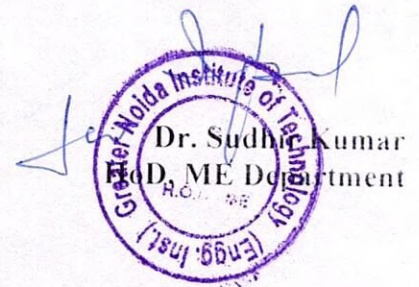
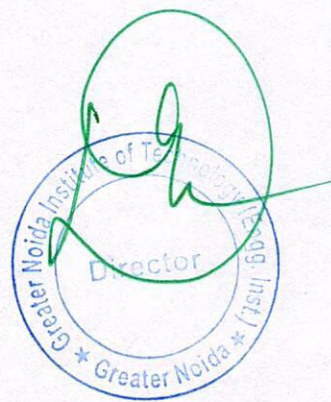


Date: 09/07/2018**Mechanical Engineering (Code-ME)****Circular**

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 14/07/2018. 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 engineers entry-level positions. It is one of the most important competitive examinations in India.

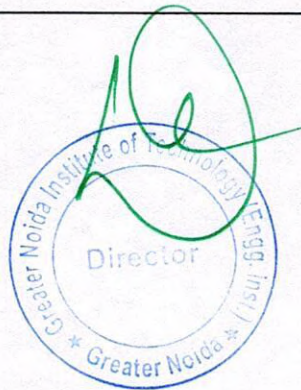
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Mechanical Engineering (Code-ME)**GATE Classes (Module)**

Section -1	Engineering Mathematics (MATH)	15 Hours
Section -2	Fluid Mechanics	5 Hours
Section -3	Thermodynamics	5 Hours
Section -4	Heat Transfer	5 Hours
Section -5	Engineering Materials	5 Hours
Section -6	Casting	5 Hours
Section -7	Forming and Joining Process	5 Hours
Section -8	Machining and Machine Tool Operations	5 Hours
Section -9	General Aptitude (GA)	15 Hours
Total		65 Hours



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Syllabus

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:

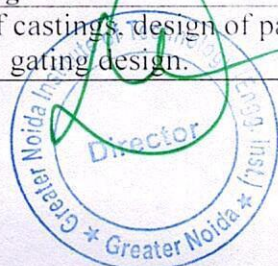
Modes of heat transfer; one dimensional heat conduction, resistance concept and electrical analogy, heat transfer through fins; unsteady heat conduction, lumped parameter system, Heisler's charts; thermal boundary layer, dimensionless parameters in free and forced convective heat transfer, heat transfer 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.



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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.

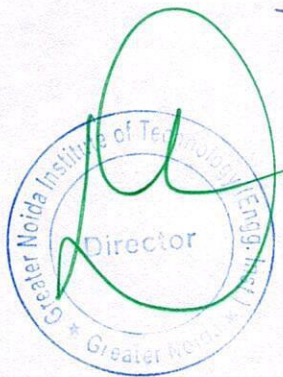
Section 9: General Aptitude (APT)

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 pattern in 2 and 3 dimensions



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Mechanical Engineering (Code-ME)

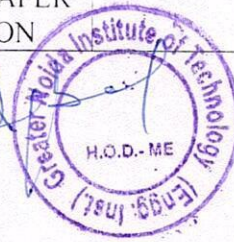
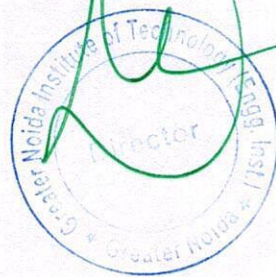
Session (2018-19)

GATE CLASSES- Time Table

Room No:

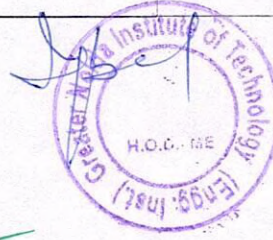
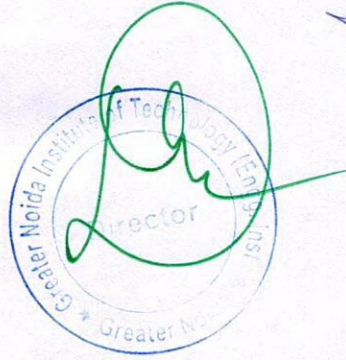
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S.NO	DATE/TIME	9:15-10:55	10:55-12:35	12:35-1:35	1:35-3:15	3:15-4:55	
1	14 July 2018	EM	FM		TD	MATH	
2	21 July 2018	CT	FJ		MMTO	APT	
3	28 July 2018	EM	FM		TD	MATH	
4	4 Aug 2018	CT	FJ		MMTO	APT	
5	11 Aug 2018	EM	FM		TD	MATH	
6	18 Aug 2018	CT	FJ		MMTO	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

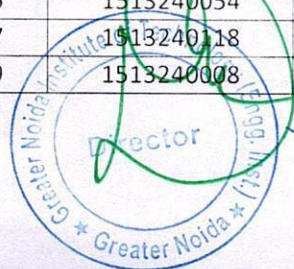


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List of students

S.No.	I.D. No.	UPTU Roll No	Student Name	BATCH
1	140947	1413240059	DEEPAK YADAV	2018-19
2	140987	1413240145	PRAVEEN KUMAR	2018-19
3	141015	1413240203	SHUBHAM SAURAV	2018-19
4	141026	1413240162	RAMENDRA MISHRA	2018-19
5	141041	1413240160	RAKESH KUMAR	2018-19
6	150020	1513240080	GAURAV SINGH	2018-19
7	150041	1513240070	DEEPENDRA KUMAR	2018-19
8	150044	1513240038	ANAND SHYAM PATEL	2018-19
9	150049	1513240087	HARSHIT VERMA	2018-19
10	150051	1513240032	AMIT KUMAR	2018-19
11	150053	1513240018	ADITYA RAJ	2018-19
12	150075	1513240004	ABHIJEET DUTTA	2018-19
13	150077	1513240040	ANKESH KUMAR SINGH	2018-19
14	150170	1513240102	KRISHNANDAN KUMAR DWIVEDI	2018-19
15	150181	1513240090	IRFAN AHMAD	2018-19
16	150189	1513240072	DEVESH CHATURVEDI	2018-19
17	150190	1513240003	ABHAS PANDEY	2018-19
18	150237	1513240105	KUNDAN KUMAR SINGH	2018-19
19	150239	1513240056	ASHISH MISHRA	2018-19
20	150241	1513240006	ABHIJEET KUMAR SINGH	2018-19
21	150279	1513240044	ANKIT SHUKLA	2018-19
22	150282	1513240111	MAYANK SINGH	2018-19
23	150433	1513240110	MAYANK SHUKLA	2018-19
24	150441	1513240093	JAY KISHAN	2018-19
25	150451	1513240075	DURGESH KUMAR	2018-19
26	150480	1513240062	BRIJESH SINGH BAGHEL	2018-19
27	150538	1513240078	GAURAV KUMAR PANDEY	2018-19
28	150564	1513240069	DEEPANKAR RAJ	2018-19
29	150573	1513240014	ABHISHEK ROR	2018-19
30	150576	1513240104	KUNAL CHOUDHARY	2018-19
31	150643	1513240088	HARVINDER SINGH	2018-19
32	150646	1513240017	ADITYA NARAYAN SINGH	2018-19
33	150659	1513240097	KARTIK VERMA	2018-19
34	150686	1513240002	AAYUSH DHAR DWIVEDI	2018-19
35	150707	1513240015	ADARSH RAJ	2018-19
36	150734	1513240013	ABHISHEK PURIA	2018-19
37	150740	1513240043	ANKIT RAJ	2018-19
38	150742	1513240059	ATIULLAH A ZAMAN	2018-19
39	150743	1513240041	ANKIT KUMAR GUPTA	2018-19
40	150758	1513240031	AMIT KUMAR	2018-19
41	150760	1513240084	GOVIND KUMAR SHARMA	2018-19
42	150765	1513240054	ASHISH KUMAR	2018-19
43	150767	1513240018	MD FARIDUL HAQUE	2018-19
44	150789	1513240008	ABHINAV SINGH	2018-19



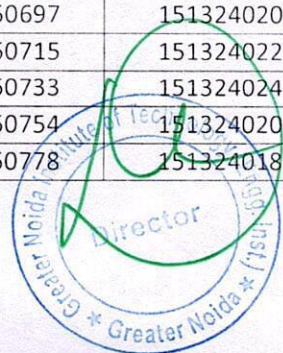
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ग्रेटर नोएडा इंस्टीट्यूट ऑफ टेक्नोलॉजी (इंजीनियरिंग इंस्टीट्यूट)
GREATER NOIDA INSTITUTE OF TECHNOLOGY (Engg. Institute)

45	150795	1513240050	ARUN KUMAR	2018-19
46	150871	1513240095	KANHAIYA SAHANI	2018-19
47	150884	1513240094	JAZIB KALAM	2018-19
48	150890	1513240016	ADIL AFZAL	2018-19
49	150907	1513240083	GHANSHYAM GUPTA	2018-19
50	150930	1513240101	KRISHNA PARTH	2018-19
51	150933	1513240064	CHANDRA PRAKASH SINGH	2018-19
52	150937	1513240108	MAHESH KUMAR GUPTA	2018-19
53	150951	1513240010	ABHISHEK CHANDRA	2018-19
54	150954	1513240092	ISLAM	2018-19
55	150973	1513240021	AJAY YADAV	2018-19
56	151012	1513240117	MD FAIQUE KHAN	2018-19
57	151025	1513240063	CHANDAN KUMAR	2018-19
58	151035	1513240033	AMIT KUMAR	2018-19
59	151040	1513240036	AMMAR KAUSAR	2018-19
60	151050	1513240081	GAURAV UPADHYAY	2018-19
61	151066	1513240034	AMIT KUMAR PAL	2018-19
62	151105	1513240028	AMIR DANISH	2018-19
63	151106	1513240005	ABHIJEET KUMAR SINGH	2018-19
64	151116	1513240053	ASHFAK	2018-19
65	151126	1513240060	BABLU KUMAR GUPTA	2018-19
66	151172	1513240039	ANGAD MAURYA	2018-19
67	151218	1513240076	GANESH KUMAR	2018-19
68	151289	1513240068	DEEPAK KUMAR SINHA	2018-19
69	150008	1513240168	RAHIL REZA	2018-19
70	150010	1513240138	MOHIT RAJ	2018-19
71	150039	1513240230	TARUN RAJ	2018-19
72	150043	1513240176	RAJEEV KUMAR JHA	2018-19
73	150054	1513240233	UDDESHYA KUMAR	2018-19
74	150108	1513240196	SACHIN SHARMA	2018-19
75	150130	1513240146	NISHANT SIROTHIYA	2018-19
76	150136	1513240149	NITIN YADAV	2018-19
77	150137	1513240173	RAJ KUMAR	2018-19
78	150205	1513240194	SABIR RAZA KHAN	2018-19
79	150217	1513240200	SAMEER AKHTAR	2018-19
80	150232	1513240193	RUPESH KUMAR	2018-19
81	150235	1513240224	SPARSH MISHRA	2018-19
82	150248	1513240202	SARWAR SHAMIM	2018-19
83	150315	1513240140	MUZAMMIL AKHTER	2018-19
84	150354	1513240198	SAJID ZEYA	2018-19
85	150489	1513240192	ROHAN SRIVASTAVA	2018-19
86	150498	1513240220	SHUBHAM RANA	2018-19
87	150574	1513240226	SUMEET RAWAT	2018-19
88	150697	1513240204	SAURABH SHANTANU	2018-19
89	150715	1513240222	SIDDHARTH ARYA	2018-19
90	150733	1513240248	WAJEEH HASAN	2018-19
91	150754	1513240201	SANJEEV KUMAR SHARMA	2018-19
92	150778	1513240187	RAVI KUMAR VERMA	2018-19



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93	150787	1513240215	SHIVANSH KUMAR	2018-19
94	150788	1513240214	SHIVAM MISHRA	2018-19
95	150801	1513240148	NITESH RAI	2018-19
96	150826	1513240135	MOHD FAIZAN	2018-19
97	150845	1513240240	VINAY PATEL	2018-19
98	150858	1513240206	SAURAV KUMAR	2018-19
99	150868	1513240228	SURAJ CHAUHAN	2018-19
100	150870	1513240210	SHADAN AHMAD	2018-19
101	150874	1513240189	RAVI VERMA	2018-19
102	150880	1513240236	UTSAV KUMAR	2018-19
103	150881	1513240227	SUNIL YADAV	2018-19
104	150883	1513240125	MD SHAHID RAZA	2018-19
105	150898	1513240126	MD SHANABAZ ALAM	2018-19
106	150899	1513240128	MD TABISH ZAKI	2018-19
107	150935	1513240134	MOHAMMAD SHAMIM ALAM	2018-19
108	150949	1513240158	PRASHANT KUMAR	2018-19
109	150955	1513240175	RAJEEV KUMAR	2018-19
110	150962	1513240213	SHIV SHANKAR	2018-19
111	150974	1513240217	SHUBHAM KUMAR	2018-19
112	150978	1513240239	VINAY KUMAR	2018-19
113	150999	1513240129	MD. KASHIF UL HAQUE	2018-19
114	151011	1513240178	RAKESH KUMAR	2018-19
115	151013	1513240136	MOHD. SAFWAN	2018-19
116	151030	1513240141	NADEEM SARWAR	2018-19
117	151034	1513240164	PRAVEEN KUMAR CHAUHAN	2018-19
118	151042	1513240238	VIKASH KUMAR SINGH	2018-19
119	151043	1513240124	MD SHAHFAIZ	2018-19
120	151044	1513240184	RASHID ALI	2018-19
121	151045	1513240235	UTKARSH YADAV	2018-19
122	151067	1513240211	SHASHANK KUMAR	2018-19
123	151073	1513240243	VISHAL SHARMA	2018-19
124	151089	1513240154	PIYUSH KUMAR	2018-19
125	151095	1513240127	MD SHARIQUE IMAM	2018-19
126	151104	1513240130	MD. QURBAN ANSARI	2018-19
127	151114	1513240132	MOHAMMAD NADEEM	2018-19
128	151137	1513240169	RAHUL KUMAR	2018-19
129	151147	1513240022	AKANSHA SINGH	2018-19
130	151151	1513240122	MD SAHIL RAZA	2018-19
131	151173	1513240199	SAMAR KHAN	2018-19
132	151203	1513240223	SONU KUMAR PATHAK	2018-19
133	151204	1513240182	RANJIT SINGH	2018-19
134	151206	1513240191	RISHIKESH SINGH	2018-19
135	151222	1513240219	SHUBHAM MALIK	2018-19
136	151227	1513240180	RANJAN KUMAR	2018-19
137	151263	1513240218	SHUBHAM KUMAR	2018-19
138	151264	1513240207	SAURAV KUMAR	2018-19
139	150877	1513240252	ZAFAR MAHMOOD WARIS	2018-19
140	150887	1513240251	YASIR IDRIS	2018-19

Director
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GREATER NOIDA INSTITUTE OF TECHNOLOGY (Engg. Institute)

141	151065	1513240250	WASIM RAJA	2018-19
142	160065	1613240909	LOVEKESH MISHRA	2018-19
143	160140	1613240806	MD JAID	2018-19
144	160159	1613240907	ARSHAD ALI	2018-19
145	160181	1613240814	TANISH KABTIYAL	2018-19
146	160280	1613240808	RAVINDER KUMAR	2018-19
147	160293	1613240911	ROHIT RAJOTIA	2018-19
148	160445	1613240905	AMARNATH SINGH CHAUHAN	2018-19
149	160449	1613240906	ARFIN HASHMI	2018-19
150	160450	1613240910	MD SHAHID REZA	2018-19
151	160709	1613240802	AMAN SINGH	2018-19
152	160886	1613240807	MD ATIF MASOOD	2018-19
153	160896	1613240901	AASHIRWAD MISHRA	2018-19
154	160951	1613240805	HARISH KUMAR	2018-19
155	160952	1613240903	ABHAY GAUTAM	2018-19
156	160956	1613240809	SHAHARYAR KHAN	2018-19
157	160975	1613240912	SHANE AHMAD	2018-19
158	161024	1613240813	SHUMAIL UR RAHMAN	2018-19
159	161036	1613240902	ABDULLAH SHAKOOR	2018-19
160	161042	1613240803	APOORV ANAND	2018-19



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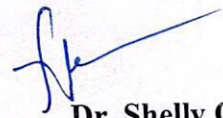
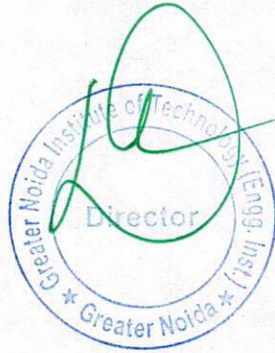
Date: 09/07/2018

Electronics and Communication Engineering (Code-ECE)
Circular

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 14/07/2018. Kindly register your name to the departmental coordinator Mr. Shiv Narain Gupta.

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 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- Δ 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


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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-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



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Section 6: Control Systems

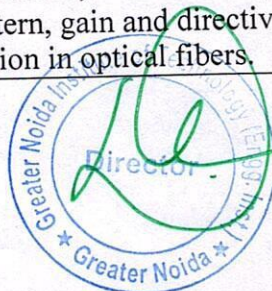
Basic control system components; Feedback principle; Transfer function; Block diagram representation; Signal flow graph; Transient and steady-state analysis of LTI systems; Frequency response; Routh-Hurwitz and Nyquist stability criteria; Bode and root-locus plots; Lag, lead and lag-lead compensation; State variable model and solution of state equation of LTI systems.

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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.



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Electronics and Communication Engineering (Code-ECE)

Session (2018-19)

GATE CLASSES- Time Table

Room No:

w.e.f: 14/07/2018

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	NAS	ED		DC	MATH
2	21 July 2018	AC	DC		CS	APT
3	28 July 2018	NAS	CS		AC	MATH
4	4 Aug 2018	CS	ED		COMM	APT
5	11 Aug 2018	NAS	COMM		AC	MATH
6	18 Aug 2018	DC	COMM		CS	APT
7	1 Sep 2018	NAS	ED		CS	MATH
8	8 Sep 2018	DC	NAS		AC	APT
9	15 Sep 2018	CS	ED	BREAK	NAS	MATH
10	6 Oct 2018	NAS	DC		COMM	APT
11	13 Oct 2018	CS	NAS		AC	MATH
12	27 Oct 2018	DC	ED		COMM	APT
13	3 Nov 2018	NAS	CS		AC	MATH
14	10 Nov 2018	CS	ED		DC	APT
15	17 Nov 2018	NAS	ED		DC	MATH
16	27 Nov 2018	ED	AC		COMM	APT
17	1 Dec 2018	COMM	DC		AC	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	Networks, Signals, and Systems (NAS)	Dr. Shelly Garg
3	Electronics Devices (ED)	Mr. Shiv Narain Gupta
4	Analog Circuits (AC)	Mr. Nitin Punyani
5	Digital Circuits (DC)	Dr. Rakhi Bhardwaj
6	Control Systems (CS)	Mr. Vivek Gupta
7	Communication (COMM)	Dr. Anil Dubey
8	Electromagnetic (EM)	Mr. Abhishek Kaushik
9	General Aptitude (APT)	Mr. Deepanshu



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List of students

S.No.	I.D. No.	UPTU Roll No	Student Name	BATCH
1	130461	1313231126	RAJA RAJESH	2018-19
2	140450	1413231001	AALIYA MISBAH	2018-19
3	140470	1413231011	ADITYA NARAYAN SRIVASTAVA	2018-19
4	140476	1413231020	ANKUR ARUN SINGH	2018-19
5	214193	1413231040	GYAN PRAKASH	2018-19
6	214153	1413231060	NADEEM ALI	2018-19
7	140499	1413231061	NAVEEN SINGH	2018-19
8	214159	1413231069	NITISH KUMAR	2018-19
9	140493	1413231079	PRASHANT KUMAR	2018-19
10	214199	1413231095	REWA SHANKAR YADAV	2018-19
11	214144	1413231110	SANDEEP KUMAR	2018-19
12	214166	1413231119	SAURAV NITI	2018-19
13	140462	1413231139	SUMIT MAHALWAR	2018-19
14	140504	1413231146	UTPAL KUMAR	2018-19
15	140501	1413231158	VIVEK KUMAR	2018-19
16	214175	1413231159	VIVEK KUMAR SINGH	2018-19
17	150579	1513200132	MOKSHITA BANSAL	2018-19
18	150508	1513231003	AASTHA PATHAK	2018-19
19	150162	1513231004	ABHAYANAND	2018-19
20	151125	1513231005	ABHIJEET JAISWAL	2018-19
21	150611	1513231006	ABHINAV KUMAR	2018-19
22	150317	1513231008	ABHISHEK KUMAR	2018-19
23	150320	1513231009	ABHISHEK KUMAR	2018-19
24	150925	1513231011	ABHISHEK PRATAP SINGH	2018-19
25	150753	1513231012	ABHISHEK SINGH	2018-19
26	150849	1513231015	AISHA ALAM	2018-19
27	151053	1513231016	AJEET KUMAR SHUKLA	2018-19
28	150908	1513231018	AKASH AGRAWAL	2018-19
29	151015	1513231019	AKASH KUMAR GUPTA	2018-19
30	150854	1513231020	AKSHAY CHOUDHARY	2018-19
31	150582	1513231023	AKSHIKA GUPTA	2018-19
32	151230	1513231024	AMAN RAJ	2018-19
33	150214	1513231026	AMBER RAJ	2018-19
34	150297	1513231028	ANAND KUMAR	2018-19
35	150757	1513231029	ANAND RAI	2018-19
36	151284	1513231031	ANIKET KUMAR	2018-19
37	150723	1513231032	ANIKET YADAV	2018-19
38	150344	1513231033	ANISH KUMAR SINGH	2018-19
39	150985	1513231035	ANKIT KUMAR ARYA	2018-19
40	150288	1513231037	ANKIT KUMAR SINGH	2018-19
41	150678	1513231038	ANMOL SRIVASTAVA	2018-19
42	150185	1513231039	ANSHU RAJ	2018-19
43	150662	1513231040	ANUBHAV ANURAGI	2018-19



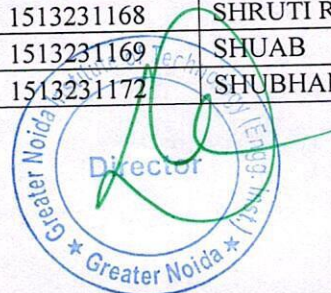
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44	151184	1513231041	ANUJ BANSAL	2018-19
45	150327	1513231042	ANUJ KUMAR	2018-19
46	150855	1513231043	ANUPAM VERMA	2018-19
47	150832	1513231045	ANUSHRUTI SINGH	2018-19
48	150129	1513231046	ARBAZ AHMAD	2018-19
49	150361	1513231047	ARUN KUMAR	2018-19
50	151024	1513231048	ASHISH KUMAR AVINASH	2018-19
51	150228	1513231049	ASHISH SAXENA	2018-19
52	150632	1513231051	AVINASH VISHWAKARMA	2018-19
53	150269	1513231052	AYUSHI SRIVASTAVA	2018-19
54	150478	1513231053	CHANDAN JHA	2018-19
55	150540	1513231054	CHANDAN KUMAR	2018-19
56	150566	1513231057	DEEPAK KUMAR	2018-19
57	150918	1513231058	DEEPAK KUMAR TIWARI	2018-19
58	150948	1513231059	DEEPSHREE	2018-19
59	150987	1513231061	DEV NATH YADAV	2018-19
60	150203	1513231064	DHEERAJ SHUKLA	2018-19
61	150533	1513231065	DHIRENDRA KUMAR	2018-19
62	150819	1513231067	EKTA	2018-19
63	150551	1513231068	ESHITA JAISWAL	2018-19
64	150634	1513231071	GAURAV KUMAR	2018-19
65	150663	1513231072	HARSH VARDHAN	2018-19
66	150272	1513231073	HASAN IMAM	2018-19
67	150435	1513231074	HIMANSHU GUPTA	2018-19
68	150549	1513231075	HIMANSHU NAUTIYAL	2018-19
69	151048	1513231076	IQARAR AHEMAD	2018-19
70	150992	1513231077	IRSHITA	2018-19
71	150373	1513231078	JITENDER KUMAR	2018-19
72	150917	1513231079	KAJAL	2018-19
73	150099	1513231081	KAUSAR PARWEEN	2018-19
74	150550	1513231082	KAUSHAL SINGH	2018-19
75	150482	1513231083	KM ARCHANA SONKER	2018-19
76	150616	1513231085	KOMAL BHARTI	2018-19
77	150273	1513231086	KULDEEP SINGH	2018-19
78	151028	1513231087	KUMAR KISHLAY	2018-19
79	151239	1513231088	KUMARI PALAK	2018-19
80	150699	1513231089	KUNAL PRIYADARSHI	2018-19
81	150230	1513231092	MANIKANT KUMAR	2018-19
82	150325	1513231093	MANIKARNIKA RANI	2018-19
83	150824	1513231094	MANISH KUMAR PANDEY	2018-19
84	150736	1513231095	MANISH RANJAN	2018-19
85	150607	1513231096	MANORMA PAL	2018-19
86	150365	1513231098	MD ASIF RASHID	2018-19
87	150535	1513231102	MOHAMMAD SHARIQ	2018-19
88	151056	1513231103	MOHD SAJID KHAN	2018-19
89	150337	1513231107	NAVDEEP SRIVASTAV	2018-19
90	150565	1513231108	NAVNEET KUMAR SINGH	2018-19
91	150409	1513231110	NEERAJ DIXIT	2018-19



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92	150673	1513231111	NIGAM KUMAR	2018-19
93	150371	1513231112	NISHA SINGH	2018-19
94	151318	1513231113	NITESH KUMAR CHAURASIYA	2018-19
95	150831	1513231115	OMVIR SINGH	2018-19
96	150313	1513231116	PANKAJ KUMAR	2018-19
97	150598	1513231117	PARAS KUMAR VERMA	2018-19
98	150055	1513231118	PAWAN GOYAL	2018-19
99	150210	1513231120	PRAGYA SINGH	2018-19
100	150512	1513231121	PRAJWAL TYAGI	2018-19
101	151191	1513231122	PRASHANT CHAUBEY	2018-19
102	151183	1513231123	PRASHANT SINGH MAHARA	2018-19
103	150521	1513231124	PRATIK KUMAR	2018-19
104	150321	1513231125	PRATIK MISHRA	2018-19
105	150287	1513231127	PRATYUSH GAUTAM	2018-19
106	150399	1513231128	PRAVEEN KUMAR CHAUBEY	2018-19
107	150581	1513231131	RAHAT ALI KHAN	2018-19
108	150578	1513231132	RAHUL ROY	2018-19
109	150292	1513231134	RAHUL KUMAR	2018-19
110	150112	1513231135	RAHUL KUMAR SHARMA	2018-19
111	151110	1513231136	RAHUL RAJ PATHAK	2018-19
112	150993	1513231137	RAJ KUMAR NISHAD	2018-19
113	150657	1513231138	RAJAT PRAKASH RAI	2018-19
114	150603	1513231141	RAJKUMAR PRASAD	2018-19
115	150158	1513231142	RAJNISH KUMAR	2018-19
116	150022	1513231143	RAKESH KUMAR	2018-19
117	150641	1513231145	RAVI RANJAN SINGH	2018-19
118	151113	1513231146	RAVI RANJAN SINGH	2018-19
119	150363	1513231147	RAVISHANKAR SINGH	2018-19
120	150668	1513231148	RISHAV KUMAR	2018-19
121	150396	1513231149	RISHIKESH PANDEY	2018-19
122	150828	1513231150	RISHU	2018-19
123	150537	1513231151	RITESH KUMAR SWARNKAR	2018-19
124	150553	1513231152	ROHIT	2018-19
125	150454	1513231153	ROHIT MISHRA	2018-19
126	151061	1513231154	RONIT SHARMA	2018-19
127	150314	1513231155	SAFDAR MAHFOOZ	2018-19
128	150558	1513231157	SALONI GUJRE	2018-19
129	150729	1513231158	SASHESH MADAN	2018-19
130	150225	1513231159	SAUMYA KUMARI JHA	2018-19
131	150340	1513231160	SHAHBAZ AFGHAN KHAN	2018-19
132	150216	1513231161	SHAIENDRA PATEL	2018-19
133	150504	1513231163	SHIKHA TIWARI	2018-19
134	150303	1513231164	SHIVAM	2018-19
135	150774	1513231165	SHIVAM GOPAL	2018-19
136	151077	1513231166	SHOMYA	2018-19
137	150784	1513231168	SHRUTI RAI	2018-19
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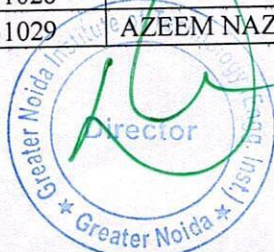
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141	150479	1513231175	SIDDHARTH PANDEY	2018-19
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143	150781	1513231177	SONAL SHARMA	2018-19
144	150300	1513231178	SONU KUMAR	2018-19
145	150096	1513231180	SRIDHI CHATURVEDI	2018-19
146	150593	1513231181	SRIJA	2018-19
147	150149	1513231182	SUDHAKAR RANJAN	2018-19
148	150470	1513231183	SUMAN KUMAR SINGH	2018-19
149	150400	1513231184	SUMIT CHAUHAN	2018-19
150	150419	1513231185	SURAJ SINGH	2018-19
151	150844	1513231186	SURYAKANT BISHT	2018-19
152	150597	1513231187	TANU SINGH KASHYAP	2018-19
153	150807	1513231188	TARUN SRIVASTAV	2018-19
154	151234	1513231189	TUSHA SINGH	2018-19
155	150617	1513231191	UJJWAL AKASH	2018-19
156	150547	1513231192	VARTIKA SRIVASTAVA	2018-19
157	150183	1513231193	VEDANT KUMAR SINGH	2018-19
158	151199	1513231195	VIKRAM SOLANKI	2018-19
159	150841	1513231197	VISHAL DUBEY	2018-19
160	150057	1513231199	VISHAL SINGH	2018-19
161	150545	1513231200	VISHWAJIT KUMAR TIWARI	2018-19
162	150358	1513231202	YASH KUMAR	2018-19
163	150461	1513231203	YASHVARDHAN SHUKLA	2018-19
164	151220	1513231903	RAVINDER	2018-19



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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
46	160545	1613231029	AZEEM NAZIM	2019-20



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47	160356	1613231030	BIJENDER YADAV	2019-20
48	160801	1613231031	BINITH ROY	2019-20
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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
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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
94	160745	1613231084	RINAL AKSH	2019-20


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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
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118	160732	1613231112	SHUBHAM RAJ	2019-20
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120	160868	1613231115	SWETA RANI	2019-20
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122	160130	1613231117	SONI KUMARI	2019-20
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125	160139	1613231120	SUDHANSHU BHARDWAJ	2019-20
126	160936	1613231122	SUSHANT TIWARI	2019-20
127	160832	1613231123	SUSHMA RANI	2019-20
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129	160879	1613231125	TANYA ROY	2019-20
130	160635	1613231126	TINKU	2019-20
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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
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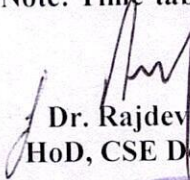
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Date: 01/08/2018**Computer Science and Information Technology (Code-CS)****Circular**


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 04/08/2018. Kindly register your name to the departmental coordinator Mr. Sudhanshu Saurabh and Mr. Asif Khan.

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.

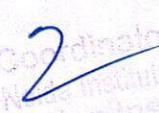
Note: Time-table is displayed on the notice board.


Dr. Rajdev Tiwari
HoD, CSE Department




Mrs. Vasudha Tiwari
HoD, IT Department

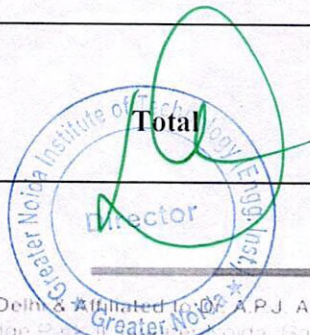



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**Computer Science and Information Technology (Code-CS)
GATE Classes (Module)**

Section -1	Engineering Mathematics	15 Hours
Section -2	Digital logic (DL)	13 Hours
Section -3	Computer organization and architecture (COA)	13 Hours
Section -4	Programming and data structures (PDS)	13 Hours
Section -5	Algorithms (ALGO)	13 Hours
Section -6	Theory of computation (TOC)	11 Hours
Section -7	Compiler design (CD)	13 Hours
Section -8	Operating system (OS)	13 Hours
Section -9	Databases (DB)	13 Hours
Section -10	Computer networks (CN)	11 Hours
Section -11	Discrete mathematics (DM)	11 Hours
Section -12	Aptitude (APT)	13 Hours
Total		152 hours



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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.



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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

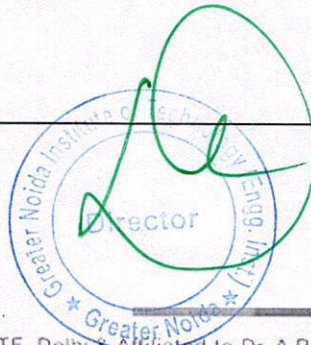
ER model. Relational model: relational algebra, tuple calculus, SQL. Integrity constraints, normal forms. File organization, indexing (e.g., B and B+ trees). Transactions and concurrency control.

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

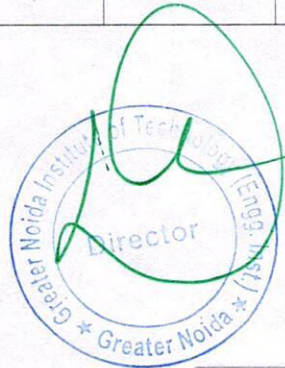
Propositional and first-order logic. Sets, relations, functions, partial orders and lattices. Groups. Graphs: connectivity, matching, coloring. Combinatorics: counting, recurrence relations, generating functions.



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Computer Science and Information Technology (Code-CS)
Session (2018-19)
GATE-2018 Time Table
Room No:
w.e.f: 04/08/2018

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	04 AUG 2018	DL	PDS	BREAK	OS	EM
2	11 AUG 2018	COA	ALGO		TOC	APT
3	18 AUG 2018	DL	CD		OS	EM
4	25 AUG 2018	COA	ALGO		DB	APT
5	01 SEPT 2018	CD	TOC		CN	EM
6	08 SEPT 2018	COA	ALGO		DB	APT
7	15 SEPT 2018	DL	PDS		OS	EM
8	22 SEPT 2018	TOC	ALGO		CD	APT
9	29 SEPT 2018	DL	PDS		OS	EM
10	6 OCT 2018	COA	ALGO		DB	APT
11	13 OCT 2018	DL	PDS		OS	EM
12	20 OCT 2018	TOC	ALGO		DB	APT
13	27 OCT 2018	DL	PDS		OS	EM
14	3 NOV 2018	COA	ALGO		CD	APT
15	10 NOV 2018	DL	PDS		TOC	EM
16	17 NOV 2018	COA	ALGO		DB	APT
17	24 NOV 2018	DL	CN		OS	EM
18	01 DEC 2018	TOC	ALGO		CD	APT
19	8 DEC 2018	ALGO	CN		DL	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)	DEEPAK KANOJIA
3	Computer organization and architecture (COA)	PARUL VASHIST
4	Programming and data structures (PDS)	VAISHALI GUPTA
5	Algorithms (ALGO)	VASUDHA TIWARI
6	Theory of computation (TOC)	ASIF KHAN
7	Compiler design (CD)	ASHWINI KUMAR VERMA
8	Operating system (OS)	SUDHANSHU SAURABH
9	Databases (DB)	ARTI GUPTA
10	Computer networks (CN)	VIDHA SHARMA
11	Discrete mathematics (DM)	VINOD KUMAR CHAUDHARY
12	Aptitude (APT)	Mr. Deepanshu



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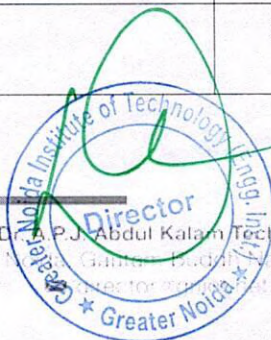
List of students

S. NO.	ROLL NO	NAME	BATCH
1	1513210177	UPASNA PATEL	2018-2019
2	1513210179	VAISHALI CHAURASIA	2018-2019
3	1513210181	VIKASH KUMAR	2018-2019
4	1513210182	VIKASH NAYAK	2018-2019
5	1513210183	VINAY	2018-2019
6	1513210189	YUVRAJ DIGVIJAY	2018-2019
7	1513213026	BHAVNA RAJPUT	2018-2019
8	1513240096	KARAN MANCHANDA	2018-2019
9	1513240098	KASHIF FIROZE	2018-2019
10	1613210801	ANKESH RAJ	2018-2019
11	1613210901	ABHISHEK SHARMA	2018-2019
12	1613210903	ASHISH MISHRA	2018-2019
13	1613210904	BIKRAM KUMAR	2018-2019
14	1613210905	DHANANJAY KUMAR PANDEY	2018-2019
15	1613210906	GAURAV	2018-2019
16	1613210907	IQRA	2018-2019



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17	1613210910	NAVAL OLI	2018-2019
18	1613210911	NISHITH RAJ	2018-2019
19	1613210912	RAJEEV RANJAN	2018-2019
20	1513210177	UPASNA PATEL	2018-2019
21	1513210179	VAISHALI CHAURASIA	2018-2019
22	1513210181	VIKASH KUMAR	2018-2019
23	1513210182	VIKASH NAYAK	2018-2019
24	1513210183	VINAY	2018-2019
25	1513210189	YUVRAJ DIGVIJAY	2018-2019
26	1513213026	BHAVNA RAJPUT	2018-2019
27	1513240096	KARAN MANCHANDA	2018-2019
28	1513240098	KASHIF FIROZE	2018-2019
29	1613210801	ANKESH RAJ	2018-2019
30	1613210901	ABHISHEK SHARMA	2018-2019
31	1613210903	ASHISH MISHRA	2018-2019
32	1613210904	BIKRAM KUMAR	2018-2019
33	1613210905	DHANANJAY KUMAR PANDEY	2018-2019
34	1613210906	GAURAV	2018-2019



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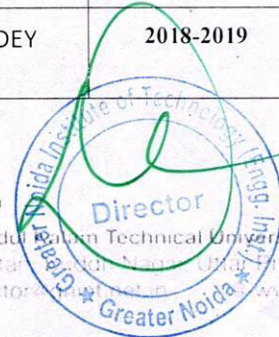


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35	1613210907	IQRA	2018-2019
36	1613210910	NAVAL OLI	2018-2019
37	1613210911	NISHITH RAJ	2018-2019
38	1613210912	RAJEEV RANJAN	2018-2019
39	1513210177	UPASNA PATEL	2018-2019
40	1513210179	VAISHALI CHAURASIA	2018-2019
41	1513210181	VIKASH KUMAR	2018-2019
42	1513210182	VIKASH NAYAK	2018-2019
43	1513210183	VINAY	2018-2019
44	1513210189	YUVRAJ DIGVIJAY	2018-2019
45	1513213026	BHAVNA RAJPUT	2018-2019
46	1513240096	KARAN MANCHANDA	2018-2019
47	1513240098	KASHIF FIROZE	2018-2019
48	1613210801	ANKESH RAJ	2018-2019
49	1613210901	ABHISHEK SHARMA	2018-2019
50	1613210903	ASHISH MISHRA	2018-2019
51	1613210904	BIKRAM KUMAR	2018-2019
52	1613210905	DHANANJAY KUMAR PANDEY	2018-2019

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

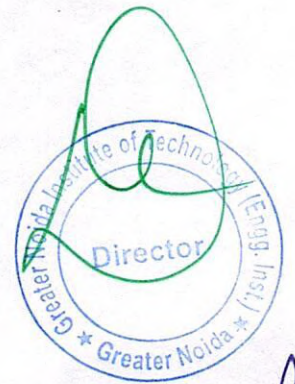


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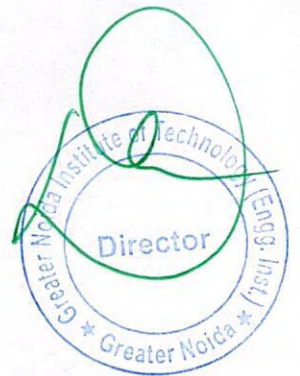
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54	1613210907	IQRA	2018-2019
55	1613210910	NAVAL OLI	2018-2019
56	1613210911	NISHITH RAJ	2018-2019
57	1613210912	RAJEEV RANJAN	2018-2019
58	1513210177	UPASNA PATEL	2018-2019
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63	1513210189	YUVRAJ DIGVIJAY	2018-2019
64	1513213026	BHAVNA RAJPUT	2018-2019
65	1513240096	KARAN MANCHANDA	2018-2019
66	1513240098	KASHIF FIROZE	2018-2019
67	1613210801	ANKESH RAJ	2018-2019
68	1613210901	ABHISHEK SHARMA	2018-2019
69	1613210903	ASHISH MISHRA	2018-2019
70	1513213095	SHIVAM SINGH	2018-2019

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71	1513213096	SHIVAM SRIVASTAVA	2018-2019
72	1513213097	SHREYA SINGH	2018-2019
73	1513213100	SHUBHAM GUPTA	2018-2019
74	1513213104	SHUBHANGI SAINI	2018-2019
75	1513213105	SIMRAN CHOUDHARY	2018-2019
76	1513213106	SRISHTI KATHURIA	2018-2019
77	1513213108	SURABHI TRIPATHI	2018-2019
78	1513213109	SURAJ MAURYA	2018-2019
79	1513213111	TANUJ SHARMA	2018-2019
80	1513213112	UTKARSH VARSHNEY	2018-2019
81	1513213113	VARTIKA MISHRA	2018-2019
82	1513213114	VASU DAGRAS	2018-2019
83	1513213115	VIKAS SINGH	2018-2019
84	1613213901	MONIKA	2018-2019
85	1613213903	SANDEEP KUMAR JHA	2018-2019
86	1613213904	SONU ALAM	2018-2019
87	1513213095	ABHINAV KUMAR	2018-2019
88	1513213096	ABHISHEK KUMAR	2018-2019



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Attendance Format 2018

S.No.	Name	Branch	Year	04-Aug-18	11-Aug-18	18-Aug-18	25-Aug-18	01-Sep-18	08-Sep-18	15-Sep-18	22-Sep-18	29-Sep-18	06-Oct-18	13-Oct-18	20-Oct-18	27-Oct-18	03-Nov-18	10-Nov-18	17-Nov-18	24-Nov-18	01-Dec-18	08-Dec-18	Total classes (19)	
1																								
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Question Paper Name:
Subject Name:
Duration:
Total Marks:

Computer Science and Information Technology 11th Feb 2017 Session I
Computer Science and Information Technology
180
100



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Indian Institute of Technology Roorkee



Question Number : 1

Correct : 1 Wrong : -0.33

The statement $(\neg p) \Rightarrow (\neg q)$ is logically equivalent to which of the statements below?

- I. $p \Rightarrow q$
- II. $q \Rightarrow p$
- III. $(\neg q) \vee p$
- IV. $(\neg p) \vee q$

- (A) I only (B) I and IV only (C) II only (D) II and III only

Question Number : 2

Correct : 1 Wrong : -0.33

Consider the first-order logic sentence $F: \neg x(\exists y)R(x, y)$. Assuming non-empty logical domains, which of the sentences below are implied by F ?

- I. $\exists x(\exists yR(x, y))$
- II. $\exists x(\neg xR(x, y))$
- III. $\neg x(\exists xR(x, y))$
- IV. $\neg \exists x(\neg \neg R(x, y))$

- (A) IV only (B) I and IV only (C) II only (D) II and III only

Question Number : 3

Correct : 1 Wrong : -0.33

Let c_1, \dots, c_n be scalars, not all zero, such that $\sum_{i=1}^n c_i a_i = 0$ where a_i are column vectors in \mathbf{R}^n .

Consider the set of linear equations

$$Ax = b$$

where $A = [a_1, \dots, a_n]$ and $b = \sum_{i=1}^n a_i$. The set of equations has

- (A) a unique solution at $x = J_n$ where J_n denotes a n -dimensional vector of all 1
- (B) no solution
- (C) infinitely many solutions
- (D) finitely many solutions

Question Number : 4

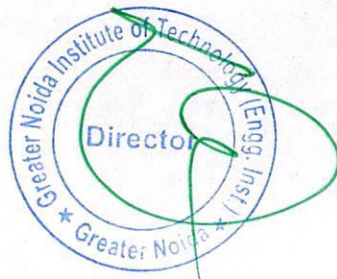
Correct : 1 Wrong : -0.33

Consider the following functions from positive integers to real numbers.

$$10, \sqrt{n}, n, \log_2 n, \frac{100}{n}$$

The CORRECT arrangement of the above functions in increasing order of asymptotic complexity is:

- (A) $\log_2 n, \frac{100}{n}, 10, \sqrt{n}, n$
- (B) $\frac{100}{n}, 10, \log_2 n, \sqrt{n}, n$
- (C) $10, \frac{100}{n}, \sqrt{n}, \log_2 n, n$
- (D) $\frac{100}{n}, \log_2 n, 10, \sqrt{n}, n$



Question Number : 5

Correct : 1 Wrong : -0.33

Consider the following table:

Algorithms	Design Paradigms
(P) Kruskal	(i) Divide and Conquer
(Q) Quicksort	(ii) Greedy
(R) Floyd-Warshall	(iii) Dynamic Programming

Match the algorithms to the design paradigms they are based on.

- (A) (P) \rightarrow (ii), (Q) \rightarrow (iii), (R) \rightarrow (i)
- (B) (P) \rightarrow (iii), (Q) \rightarrow (i), (R) \rightarrow (ii)
- (C) (P) \rightarrow (iii), (Q) \rightarrow (i), (R) \rightarrow (iii)
- (D) (P) \rightarrow (i), (Q) \rightarrow (ii), (R) \rightarrow (iii)

Question Number : 6

Correct : 1 Wrong : -0.33

Let T be a binary search tree with 15 nodes. The minimum and maximum possible heights of T are

Note: The height of a tree with a single node is 0.

- (A) 4 and 15 respectively
- (B) 3 and 14 respectively
- (C) 4 and 14 respectively
- (D) 3 and 15 respectively

Question Number : 7

Correct : 1 Wrong : -0.33

The n -bit fixed-point representation of an unsigned real number X uses f bits for the fraction part. Let $i = n - f$. The range of decimal values for X in this representation is

- (A) 2^{-f} to 2^i
- (B) 2^{-f} to $(2^i - 2^{-f})$
- (C) 0 to 2^i
- (D) 0 to $(2^i - 2^{-f})$

Question Number : 8

Correct : 1 Wrong : -0.33

Consider the C code fragment given below.

```
typedef struct node {
    int data;
    node* next;
} node;

void join(node* m, node* n) {
    node* p = n;
    while (p->next != NULL) {
        p = p->next;
    }
    p->next = m;
}
```

Assuming that m and n point to valid NULL-terminated linked lists, invocation of join will

- (A) append list m to the end of list n for all inputs.
- (B) either cause a null pointer dereference or append list m to the end of list n.
- (C) cause a null pointer dereference for all inputs.
- (D) append list n to the end of list m for all inputs.

Question Number : 9

Correct : 1 Wrong : -0.33

When two 8-bit numbers $A_7 \dots A_0$ and $B_7 \dots B_0$ in 2's complement representation (with A_0 and B_0 as the least significant bits) are added using a ripple-carry adder, the sum bits obtained are $S_7 \dots S_0$ and the carry bits are $C_7 \dots C_0$. An overflow is said to have occurred if

- (A) the carry bit C_7 is 1
- (B) all the carry bits (C_7, \dots, C_0) are 1
- (C) $(A_7 \cdot B_7 \cdot S_7 + \overline{A_7} \cdot \overline{B_7} \cdot \overline{S_7})$ is 1
- (D) $(A_0 \cdot B_0 \cdot S_0 + \overline{A_0} \cdot \overline{B_0} \cdot \overline{S_0})$ is 1



Question Number : 10

Correct : 1 Wrong : -0.33

Consider the following context-free grammar over the alphabet $\Sigma = \{a, b, c\}$ with S as the start symbol:

```
S → abScT | abcT
T → bT | b
```

Which one of the following represents the language generated by the above grammar?

- (A) $\{(ab)^n(cb)^n \mid n \geq 1\}$
- (B) $\{(ab)^n cb^{m_1} cb^{m_2} \dots cb^{m_n} \mid n, m_1, m_2, \dots, m_n \geq 1\}$
- (C) $\{(ab)^n (cb^m)^n \mid m, n \geq 1\}$
- (D) $\{(ab)^n (cb^n)^m \mid m, n \geq 1\}$

Question Number : 11

Correct : 1 Wrong : -0.33

Consider the C struct defined below:

```
struct data {
    int marks [100];
    char grade;
    int number;
};

struct data student;
```

The base address of student is available in register R1. The field student.grade can be accessed efficiently using

- (A) Post-increment addressing mode, (R1)+
- (B) Pre-decrement addressing mode, -(R1)
- (C) Register direct addressing mode, R1
- (D) Index addressing mode, X(R1), where X is an offset represented in 2's complement 16-bit representation

Question Number : 12

Correct : 1 Wrong : -0.33

Consider the following intermediate program in three address code

```
F = a - b
R = P + c
Y = R * v
E = F + E
```

Which one of the following corresponds to a *static single assignment* form of the above code?

(A) $F_1 = a - b$
 $E_1 = F_1 + c$
 $F_2 = R + v$
 $E_2 = F_1 + E_1$

(B) $F_1 = a - b$
 $E_2 = F_1 + c$
 $F_2 = R + v$
 $E_3 = E_2 + E_2$

(C) $F_1 = a - b$
 $E_1 = F_2 + c$
 $F_3 = R + v$
 $E_2 = E_1 + E_2$

(D) $F_1 = a - b$
 $E_1 = F_1 + c$
 $F_2 = R + v$
 $E_2 = F_2 + E_2$

Question Number : 13

Correct : 1 Wrong : -0.33

Consider the following C code:

```
#include <stdio.h>
int *assignval(int *x, int val) {
    *x = val;
    return x;
}

void main () {
    int *x = malloc(sizeof(int));
    if(NULL == x) return;
    x = assignval(x, 1);
    if(x) {
        x = (int *)malloc(sizeof(int));
        if(NULL == x) return;
        x = assignval(x, 10);
    }
    printf("%d\n", *x);
    free(x);
}
```

The code suffers from which one of the following problems

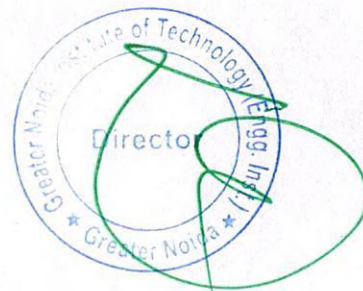
- (A) compiler error as the return of malloc is not typecast appropriately
- (B) compiler error because the comparison should be made as $x == NULL$ and not as shown
- (C) compiles successfully but execution may result in dangling pointer
- (D) compiles successfully but execution may result in memory leak

Question Number : 14

Correct : 1 Wrong : -0.33

Consider a TCP client and a TCP server running on two different machines. After completing data transfer, the TCP client calls `close` to terminate the connection and a FIN segment is sent to the TCP server. Server-side TCP responds by sending an ACK, which is received by the client-side TCP. As per the TCP connection state diagram (RFC 793), in which state does the client-side TCP connection wait for the FIN from the server-side TCP?

- (A) LAST-ACK
- (B) TIME-WAIT
- (C) FIN-WAIT-1
- (D) FIN-WAIT-2



Question Number : 15

Correct : 1 Wrong : -0.33

A sender S sends a message m to receiver R , which is digitally signed by S with its private key. In this scenario, one or more of the following security violations can take place

- (I) S can launch a birthday attack to replace m with a fraudulent message.
- (II) A third party attacker can launch a birthday attack to replace m with a fraudulent message.
- (III) R can launch a birthday attack to replace m with a fraudulent message.

Which of the following are possible security violations?

- (A) (I) and (II) only
- (B) (I) only
- (C) (II) only
- (D) (II) and (III) only

Question Number : 16

Correct : 1 Wrong : -0.33

The following functional dependencies hold true for the relational schema $R\{V, W, X, Y, Z\}$:

- $V \rightarrow W$
- $VW \rightarrow X$
- $Y \rightarrow VX$
- $Y \rightarrow Z$

Which of the following is irreducible equivalent for this set of functional dependencies?

- (A) $V \rightarrow W$
 $V \rightarrow X$
 $Y \rightarrow V$
 $Y \rightarrow Z$
- (B) $V \rightarrow W$
 $W \rightarrow X$
 $Y \rightarrow V$
 $Y \rightarrow Z$
- (C) $V \rightarrow W$
 $V \rightarrow X$
 $Y \rightarrow V$
 $Y \rightarrow X$
 $Y \rightarrow Z$
- (D) $V \rightarrow W$
 $W \rightarrow X$
 $Y \rightarrow V$
 $Y \rightarrow X$
 $Y \rightarrow Z$



Question Number : 17

Correct : 1 Wrong : -0.33

Consider the following grammar:

- $P \rightarrow \epsilon | QRS$
 - $Q \rightarrow \epsilon | \cdot$
 - $R \rightarrow \epsilon | \cdot$
 - $S \rightarrow \epsilon$

What is FOLLOW(Q)?

- (A) $\{R\}$
- (B) $\{ \epsilon \}$
- (C) $\{ \epsilon, \gamma \}$
- (D) $\{ \epsilon, \$ \}$

Question Number : 18

Correct : 1 Wrong : -0.33

Threads of a process share

- (A) global variables but not heap.
- (B) heap but not global variables.
- (C) neither global variables nor heap.
- (D) both heap and global variables.

Question Number : 19

Correct : 1 Wrong : 0

Let X be a Gaussian random variable with mean 0 and variance σ^2 . Let $Y = \max(X, 0)$ where $\max(a, b)$ is the maximum of a and b . The median of Y is _____

Question Number : 20

Correct : 1 Wrong : 0

Let T be a tree with 10 vertices. The sum of the degrees of all the vertices in T is _____

Question Number : 21

Correct : 1 Wrong : 0

Consider the Karnaugh map given below, where X represents "don't care" and blank represents 0

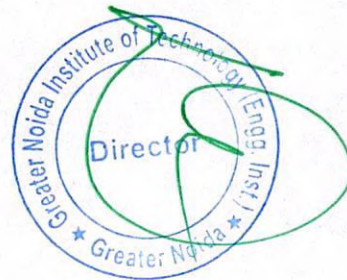
	ba'	00	01	11	10
dc	00		X	X	
	01	1			X
	11	1			1
	10		X	X	

Assume for all inputs (a, b, c, d) , the respective complements $(\bar{a}, \bar{b}, \bar{c}, \bar{d})$ are also available. The above logic is implemented using 2-input NOR gates only. The minimum number of gates required is _____.

Question Number : 22

Correct : 1 Wrong : 0

Consider the language L given by the regular expression $(a+b)^*b(a+b)^*$ over the alphabet $\{a, b\}$. The smallest number of states needed in a deterministic finite-state automaton (DFA) accepting L is _____.



Question Number : 23

Correct : 1 Wrong : 0

Consider a database that has the relation schema EMP (EmpId, EmpName, and DeptName). An instance of the schema EMP and a SQL query on it are given below.

EMP		
EmpId	EmpName	DeptName
1	XYA	AA
2	XYB	AA
3	XYC	AA
4	XYD	AA
5	XYE	AB
6	XYF	AB
7	XYG	AB
8	XYH	AC
9	XYI	AC
10	XYJ	AC
11	XYK	AD
12	XYL	AD
13	XYM	AE

```

SELECT EmpId, EmpName, DeptName
FROM EMP
WHERE DeptName = 'AA'
AND EmpName LIKE 'XY%'
ORDER BY DeptName, EmpId;
    
```

The output of executing the SQL query is _____.

Question Number : 24

Correct : 1 Wrong : 0

Consider the following CPU processes with arrival times (in milliseconds) and length of CPU bursts (in milliseconds) as given below :

Process	Arrival time	Burst time
P1	0	7
P2	3	3
P3	5	5
P4	6	2

If the pre-emptive shortest remaining time first scheduling algorithm is used to schedule the processes, then the average waiting time across all processes is _____ milliseconds.

Question Number : 25

Correct : 1 Wrong : 0

Consider a two-level cache hierarchy with L1 and L2 caches. An application incurs 1.4 memory accesses per instruction on average. For this application, the miss rate of L1 cache is 0.1; the L2 cache experiences, on average, 7 misses per 1000 instructions. The miss rate of L2 expressed correct to two decimal places is _____

Question Number : 26

Correct : 2 Wrong : -0.66

Let $G = (V, E)$ be any connected undirected edge-weighted graph. The weights of the edges in E are positive and distinct. Consider the following statements:

- (I) Minimum Spanning Tree of G is always unique.
- (II) Shortest path between any two vertices of G is always unique.

Which of the above statements is/are necessarily true?

- (A) (I) only
- (B) (II) only
- (C) both (I) and (II)
- (D) neither (I) nor (II)

Question Number : 27

Correct : 2 Wrong : -0.66

A multithreaded program P executes with x number of threads and uses y number of locks for ensuring mutual exclusion while operating on shared memory locations. All locks in the program are *non-reentrant*, i.e., if a thread holds a lock l , then it cannot re-acquire lock l without releasing it. If a thread is unable to acquire a lock, it blocks until the lock becomes available. The *minimum* value of x and the *minimum* value of y together for which execution of P can result in a deadlock are

- (A) $x = 1, y = 2$
- (B) $x = 2, y = 1$
- (C) $x = 2, y = 1$
- (D) $x = 1, y = 1$

Question Number : 28

Correct : 2 Wrong : -0.66

The value of $\lim_{x \rightarrow 1} \frac{x^7 - 2x^5 + 1}{x^3 - 3x^2 + 2}$

- (A) is 0
- (B) is -1
- (C) is 1
- (D) does not exist

Question Number : 29

Correct : 2 Wrong : -0.66

Let $p, q,$ and r be propositions and the expression $(p \rightarrow q) \rightarrow r$ be a contradiction. Then, the expression $(r \rightarrow p) \rightarrow q$ is

- (A) a tautology
- (B) a contradiction.
- (C) always TRUE when p is FALSE.
- (D) always TRUE when r is TRUE

Question Number : 30

Correct : 2 Wrong : -0.66

Let u and v be two vectors in \mathbb{R}^2 whose Euclidean norms satisfy $\|u\| = 2\|v\|$. What is the value of α such that $w = u + \alpha v$ bisects the angle between u and v ?

- (A) 2
- (B) 1/2
- (C) 1
- (D) -1/2

Question Number : 31

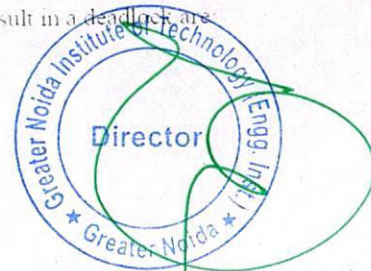
Correct : 2 Wrong : -0.66

Let A be $n \times n$ real valued square symmetric matrix of rank 2 with $\sum_{i=1}^n \sum_{j=1}^n A_{ij}^2 = 50$. Consider the following statements.

- (I) One eigenvalue must be in $[-5, 5]$
- (II) The eigenvalue with the largest magnitude must be strictly greater than 5

Which of the above statements about eigenvalues of A is necessarily CORRECT?

- (A) Both (I) and (II)
- (B) (I) only
- (C) (II) only
- (D) Neither (I) nor (II)



Question Number : 32

Correct : 2 Wrong : -0.66

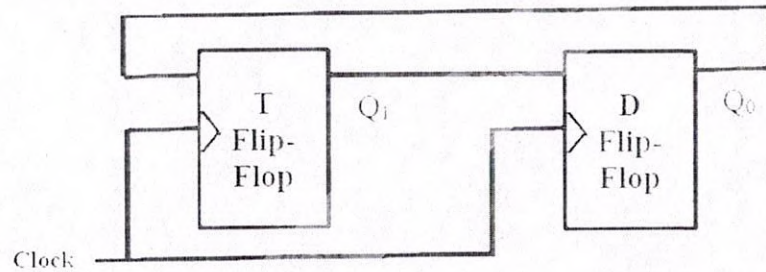
A computer network uses polynomials over $GF(2)$ for error checking with 8 bits as information bits and uses $x^3 + x + 1$ as the generator polynomial to generate the check bits. In this network, the message 01011011 is transmitted as

- (A) 01011011010
- (B) 01011011011
- (C) 01011011101
- (D) 01011011100

Question Number : 33

Correct : 2 Wrong : -0.66

Consider a combination of T and D flip-flops connected as shown below. The output of the D flip-flop is connected to the input of the T flip-flop and the output of the T flip-flop is connected to the input of the D flip-flop.



Initially, both Q_0 and Q_1 are set to 1 (before the 1st clock cycle). The outputs

- (A) $Q_1 Q_0$ after the 3rd cycle are 11 and after the 4th cycle are 00 respectively
- (B) $Q_1 Q_0$ after the 3rd cycle are 11 and after the 4th cycle are 01 respectively
- (C) $Q_1 Q_0$ after the 3rd cycle are 00 and after the 4th cycle are 11 respectively
- (D) $Q_1 Q_0$ after the 3rd cycle are 01 and after the 4th cycle are 01 respectively

Question Number : 34

Correct : 2 Wrong : -0.66

If G is a grammar with productions

$$S \rightarrow SaS \mid aSb \mid bSa \mid SS \mid \epsilon$$

where S is the start variable, then which one of the following strings is not generated by G ?

- (A) abab
- (B) aabb
- (C) abba
- (D) babba

Question Number : 35

Correct : 2 Wrong : -0.66

Consider the following two functions.

```
void fun1(int n) {
    if(n == 0) return;
    printf("%d", n);
    fun2(n - 1);
    printf("%d", n);
}
```

```
void fun2(int n) {
    if(n == 0) return;
    printf("%d", n);
    fun1(++n);
    printf("%d", n);
}
```

The output printed when $\text{fun1}(5)$ is called is

- (A) 53423122233445
- (B) 53423120112233
- (C) 53423122132435
- (D) 53423120213243

Question Number : 36

Correct : 2 Wrong : -0.66

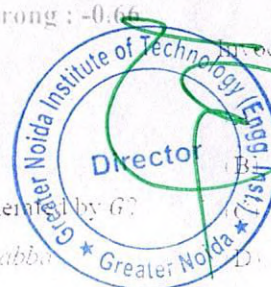
Consider the C functions foo and bar given below:

```
int foo(int val) {
    int x = 0;
    while(val > 0) {
        x = x + foo(val-1);
    }
    return val;
}
```

```
int bar(int val) {
    int x = 0;
    while(val > 0) {
        x = x + bar(val-1);
    }
    return val;
}
```

Invocations of $\text{foo}(3)$ and $\text{bar}(3)$ will result in:

- (A) Return of 6 and 6 respectively.
- (B) Infinite loop and abnormal termination respectively.
- (C) Abnormal termination and infinite loop respectively.
- (D) Both terminating abnormally.



Question Number : 37

Correct : 2 Wrong : -0.66

Consider the context-free grammars over the alphabet $\{a, b, c\}$ given below. S and T are non-terminals.

$$G_1: S \rightarrow aSb | T, T \rightarrow cT | \epsilon$$

$$G_2: S \rightarrow bSa | T, T \rightarrow cT | \epsilon$$

The language $L(G_1) \cap L(G_2)$ is

- (A) Finite.
- (B) Not finite but regular.
- (C) Context-Free but not regular.
- (D) Recursive but not context-free.

Question Number : 38

Correct : 2 Wrong : -0.66

Consider the following languages over the alphabet $\Sigma = \{a, b, c\}$. Let $L_1 = \{a^n b^n c^m \mid m, n \geq 0\}$ and $L_2 = \{a^m b^n c^n \mid m, n \geq 0\}$.

Which of the following are context-free languages?

- I. $L_1 \cup L_2$
- II. $L_1 \cap L_2$

- (A) I only
- (B) II only
- (C) I and II
- (D) Neither I nor II

Question Number : 39

Correct : 2 Wrong : -0.66

Let A and B be finite alphabets and let $\#$ be a symbol outside both A and B . Let f be a total function from A^* to B^* . We say f is *computable* if there exists a Turing machine M which given an input x in A^* , always halts with $f(x)$ on its tape. Let L_f denote the language $\{x\#f(x) \mid x \in A^*\}$.

Which of the following statements is true:

- (A) f is computable if and only if L_f is recursive.
- (B) f is computable if and only if L_f is recursively enumerable.
- (C) If f is computable then L_f is recursive, but not conversely.
- (D) If f is computable then L_f is recursively enumerable, but not conversely.

Question Number : 40

Correct : 2 Wrong : -0.66

Recall that Belady's anomaly is that the page-fault rate may *increase* as the number of allocated frames increases. Now, consider the following statements:

S1: *Random page replacement* algorithm (where a page chosen at random is replaced) suffers from Belady's anomaly.

S2: *LRU page replacement* algorithm suffers from Belady's anomaly.

Which of the following is CORRECT?

- (A) S1 is true, S2 is true
- (B) S1 is true, S2 is false
- (C) S1 is false, S2 is true
- (D) S1 is false, S2 is false

Question Number : 41

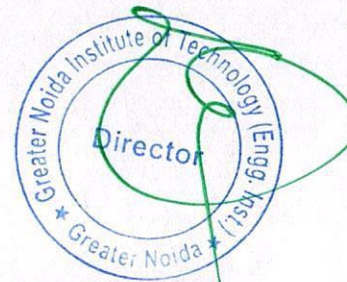
Correct : 2 Wrong : -0.66

Consider a database that has the relation schemas EMP(EmpId, EmpName, DeptId) and DEPT(DeptName, DeptId). Note that the DeptId can be permitted to be NULL in the relation EMP. Consider the following queries on the database expressed in tuple relational calculus.

- (I) $\{t \mid \exists u \in \text{EMP}(t[\text{EmpName}] = u[\text{EmpName}] \wedge \exists v \in \text{DEPT}(t[\text{DeptId}] = v[\text{DeptId}]))\}$
- (II) $\{t \mid \exists u \in \text{EMP}(t[\text{EmpName}] = u[\text{EmpName}] \wedge \exists v \in \text{DEPT}(t[\text{DeptId}] = v[\text{DeptId}]))\}$
- (III) $\{t \mid \exists u \in \text{EMP}(t[\text{EmpName}] = u[\text{EmpName}] \wedge \exists v \in \text{DEPT}(t[\text{DeptId}] = v[\text{DeptId}]))\}$

Which of the above queries are safe?

- (A) (I) and (II) only
- (B) (I) and (III) only
- (C) (II) and (III) only
- (D) (I), (II) and (III)



Question Number : 42

Correct : 2 Wrong : -0.66

In a database system, unique timestamps are assigned to each transaction using Lamport's logical clock. Let $TS(T_1)$ and $TS(T_2)$ be the timestamps of transactions T_1 and T_2 respectively. Besides, T_1 holds a lock on the resource R, and T_2 has requested a conflicting lock on the same resource R. The following algorithm is used to prevent deadlocks in the database system assuming that a killed transaction is restarted with the same timestamp

```
if  $TS(T_2) < TS(T_1)$  then
     $T_1$  is killed
else  $T_2$  waits.
```

Assume any transaction that is not killed terminates eventually. Which of the following is TRUE about the database system that uses the above algorithm to prevent deadlocks?

- (A) The database system is both deadlock-free and starvation-free.
- (B) The database system is deadlock-free, but not starvation-free.
- (C) The database system is starvation-free, but not deadlock-free.
- (D) The database system is neither deadlock-free nor starvation-free.

Question Number : 43

Correct : 2 Wrong : 0

Consider the following grammar

```
stmt  -> if expr then expr else expr; stmt | 0
expr  -> term relop term | term
term  -> id number
id    -> a | b | c
number -> [0-9]
```

where **relop** is a relational operator (e.g., $<$, $>$, ...). 0 refers to the empty statement, and **if**, **then**, **else** are terminals.

Consider a program P following the above grammar containing ten **if** terminals. The number of control flow paths in P is _____. For example, the program

```
if  $e_1$  then  $e_2$  else  $e_3$ 
```

has 2 control flow paths, $e_1 \rightarrow e_2$ and $e_1 \rightarrow e_3$.

Question Number : 44

Correct : 2 Wrong : 0

In a RSA cryptosystem, a participant A uses two prime numbers $p = 13$ and $q = 17$ to generate her public and private keys. If the public key of A is 35, then the private key of A is _____.

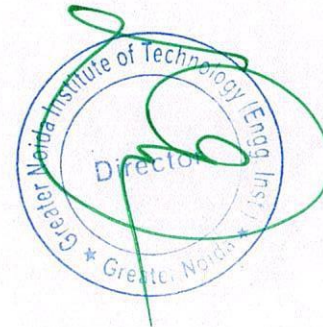
Question Number : 45

Correct : 2 Wrong : 0

The values of parameters for the Stop-and-Wait ARQ protocol are as given below

Bit rate of the transmission channel = 1 Mbps
Propagation delay from sender to receiver = 0.75 ms
Time to process a frame = 0.25 ms
Number of bytes in the information frame = 1980
Number of bytes in the acknowledge frame = 20
Number of overhead bytes in the information frame = 20

Assume that there are no transmission errors. Then, the transmission efficiency (expressed in percentage) of the Stop-and-Wait ARQ protocol for the above parameters is _____ (correct to 2 decimal places).



Question Number : 46

Correct : 2 Wrong : 0

Consider a database that has the relation schema CR(StudentName, CourseName). An instance of the schema CR is as given below.

CR	
StudentName	CourseName
SA	CA
SA	CB
SA	CC
SB	CB
SB	CC
SC	CA
SC	CB
SC	CC
SD	CA
SD	CB
SD	CC
SD	CD
SE	CD
SE	CA
SE	CB
SF	CA
SF	CB
SF	CC

The following query is made on the database

$$T1 \leftarrow \pi_{CourseName}(\sigma_{StudentName=SA}(CR))$$

$$T2 \leftarrow CR \div T1$$

The number of rows in $T2$ is _____

Question Number : 47

Correct : 2 Wrong : 0

The number of integers between 1 and 500 (both inclusive) that are divisible by 3 or 5 or 7 is _____

Question Number : 48

Correct : 2 Wrong : 0

Let A be an array of 31 numbers consisting of a sequence of 0's followed by a sequence of 1's. The problem is to find the smallest index i such that $A[i]$ is 1 by probing the minimum number of locations in A . The *worst case* number of probes performed by an *optimal* algorithm is _____

Question Number : 49

Correct : 2 Wrong : 0

Consider a RISC machine where each instruction is exactly 4 bytes long. Conditional and unconditional branch instructions use PC-relative addressing mode with Offset specified in bytes to the target location of the branch instruction. Further the Offset is always with respect to the address of the next instruction in the program sequence. Consider the following instruction sequence

Instr. No.	Instruction
1	add R1, R3, R4
1-1	add R5, R6, R7
1-2	cmp R1, R9, R10
1-3	beq R1, Offset

If the target of the branch instruction is 1, then the decimal value of the Offset is _____

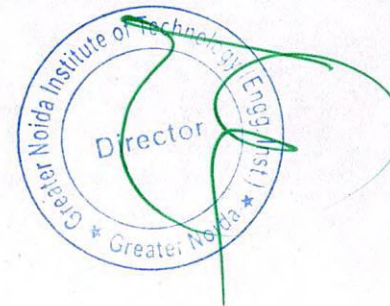
Question Number : 50

Correct : 2 Wrong : 0

Instruction execution in a processor is divided into 5 stages. *Instruction Fetch* (IF), *Instruction Decode* (ID), *Operand Fetch* (OF), *Execute* (EX), and *Write Back* (WB). These stages take 5, 4, 20, 10, and 3 nanoseconds (ns) respectively. A pipelined implementation of the processor requires buffering between each pair of consecutive stages with a delay of 2 ns. Two pipelined implementations of the processor are contemplated:

- (i) a naive pipeline implementation (NP) with 5 stages and
- (ii) an efficient pipeline (EP) where the OF stage is divided into stages OF1 and OF2 with execution times of 12 ns and 8 ns respectively.

The speedup (correct to two decimal places) achieved by EP over NP in executing 20 independent instructions with no hazards is _____



Question Number : 51

Correct : 2 Wrong : 0

Consider a 2-way set associative cache with 256 blocks and uses LRU replacement. Initially the cache is empty. Conflict misses are those misses which occur due to contention of multiple blocks for the same cache set. Compulsory misses occur due to first time access to the block. The following sequence of accesses to memory blocks

(0, 128, 256, 128, 0, 128, 256, 128, 1, 129, 257, 129, 1, 129, 257, 129)

is repeated 10 times. The number of *conflict misses* experienced by the cache is _____

Question Number : 52

Correct : 2 Wrong : 0

Consider the expression $(a-1)^*(b+c-3)-d-0$. Let X be the minimum number of registers required by an *optimal* code generation (without any register spill) algorithm for a load-store architecture, in which *only load and store instructions can have memory operands* and *only arithmetic instructions can have only register or immediate operands*. The value of X is _____

Question Number : 53

Correct : 2 Wrong : 0

Consider the following C program:

```
#include <stdio.h>
#include <string.h>

void printlength(char *s, char *t)
{
    unsigned int c = 0;
    int len = ((strlen(s) - strlen(t)) > 0) ? strlen(s) : strlen(t);
    printf("%d\n", len);
}

void main() {
    char *x = "abc";
    char *y = "defgh";
    printlength(x, y);
}
```

Recall that `strlen` is defined in `string.h` as returning a value of type `size_t`, which is an unsigned int. The output of the program is _____

Question Number : 54

Correct : 2 Wrong : 0

A cache memory unit with capacity of N words and block size of B words is to be designed. If it is designed as a direct mapped cache, the length of the TAG field is 10 bits. If the cache unit is now designed as a 16-way set-associative cache, the length of the TAG field is _____ bits.

Question Number : 55

Correct : 2 Wrong : 0

The output of executing the following C program is _____

```
#include <stdio.h>

int total(int v)
{
    static int count = 0;
    while(v) {
        count += v;
        v >>= 1;
    }
    return count;
}

void main()
{
    static int x = 0;
    int i = 5;
    for(; i > 0; i--) {
        x = x + total(i);
    }
    printf("%d\n", x);
}
```



Question Number : 56

Correct : 1 Wrong : -0.33

After Rajendra Chola returned from his voyage to Indonesia, he _____ to visit the temple in Thanjavur.

- (A) was wishing (B) is wishing (C) wished (D) had wished

Question Number : 57

Correct : 1 Wrong : -0.33

Research in the workplace reveals that people work for many reasons _____

- (A) money beside (B) beside money (C) money besides (D) besides money

Question Number : 58

Correct : 1 Wrong : -0.33

Rahul, Murali, Srinivas and Arul are seated around a square table. Rahul is sitting to the left of Murali. Srinivas is sitting to the right of Arul. Which of the following pairs are seated opposite each other?

- (A) Rahul and Murali (B) Srinivas and Arul
(C) Srinivas and Murali (D) Srinivas and Rahul

Question Number : 59

Correct : 1 Wrong : -0.33

Find the smallest number y such that $y \times 162$ is a perfect cube

- (A) 24 (B) 27 (C) 32 (D) 36

Question Number : 60

Correct : 1 Wrong : -0.33

The probability that a k -digit number does NOT contain the digits 0, 5, or 9 is

- (A) 0.3^k (B) 0.6^k (C) 0.7^k (D) 0.9^k

Question Number : 61

Correct : 2 Wrong : -0.66

"The hold of the nationalist imagination on our colonial past is such that anything inadequately or improperly nationalist is just not history."

Which of the following statements best reflects the author's opinion?

- (A) Nationalists are highly imaginative.
(B) History is viewed through the filter of nationalism.
(C) Our colonial past never happened.
(D) Nationalism has to be both adequately and properly imagined.

Question Number : 62

Correct : 2 Wrong : -0.66

Six people are seated around a circular table. There are at least two men and two women. There are at least three right-handed persons. Every woman has a left-handed person to her immediate right. None of the women are right-handed. The number of women at the table is

- (A) 2 (B) 3 (C) 4 (D) Cannot be determined

Question Number : 63

Correct : 2 Wrong : -0.66

The expression $\frac{(x+y) - |x-y|}{2}$ is equal to

- (A) the maximum of x and y (B) the minimum of x and y
(C) 1 (D) none of the above

Question Number : 64

Correct : 2 Wrong : -0.66

Arjun, Gulab, Neel and Shweta must choose one shirt each from a pile of four shirts coloured red, blue, green and white respectively. Arjun dislikes the colour red and Shweta dislikes the colour blue. Gulab and Neel like all the colours. In how many different ways can they choose the shirts so that no one has a shirt with a colour he or she dislikes?

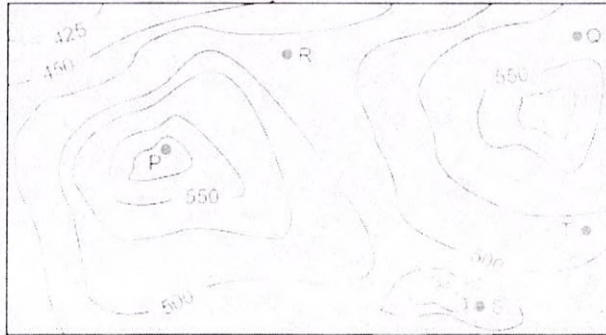
- (A) 21 (B) 18 (C) 16 (D) 14



Question Number : 65

Correct : 2 Wrong : -0.66

A contour line joins locations having the same height above the mean sea level. The following is a contour plot of a geographical region. Contour lines are shown at 25 m intervals in this plot. If in a flood, the water level rises to 525 m, which of the villages P, Q, R, S, T get submerged?

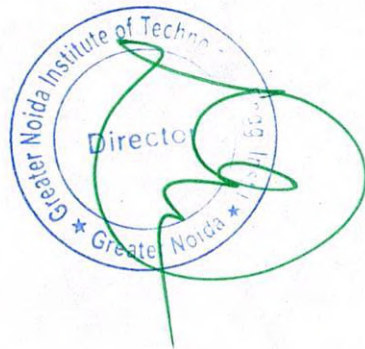


(A) P, Q

(B) P, Q, T

(C) R, S, T

(D) Q, R, S



Q. 1 – Q. 5 carry one mark each.

Q.1 "From where are they bringing their books?" _____ bringing _____ books from _____.

The words that best fill the blanks in the above sentence are

- (A) Their, they're, there
 (B) They're, their, there
 (C) There, their, they're
 (D) They're, there, there

Q.2 "A _____ investigation can sometimes yield new facts, but typically organized ones are more successful."

The word that best fills the blank in the above sentence is

- (A) meandering (B) timely (C) consistent (D) systematic

Q.3 The area of a square is d . What is the area of the circle which has the diagonal of the square as its diameter?

- (A) πd (B) πd^2 (C) $\frac{1}{4}\pi d^2$ (D) $\frac{1}{2}\pi d$

Q.4 What would be the smallest natural number which when divided either by 20 or by 42 or by 76 leaves a remainder of 7 in each case?

- (A) 3047 (B) 6047 (C) 7987 (D) 63847

Q.5 What is the missing number in the following sequence?

2, 12, 60, 240, 720, 1440, _____, 0

- (A) 2880 (B) 1440 (C) 720 (D) 0

Q. 6 – Q. 10 carry two marks each.

Q.6 In appreciation of the social improvements completed in a town, a wealthy philanthropist decided to gift Rs 750 to each male senior citizen in the town and Rs 1000 to each female senior citizen. Altogether, there were 300 senior citizens eligible for this gift. However, only $8/9^{\text{th}}$ of the eligible men and $2/3^{\text{rd}}$ of the eligible women claimed the gift. How much money (in Rupees) did the philanthropist give away in total?

- (A) 1,50,000 (B) 2,00,000
 (C) 1,75,000 (D) 1,51,000

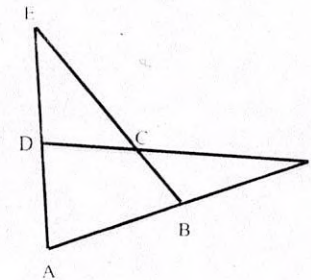
Q.7 If $pqr \neq 0$ and $p^{-x} = \frac{1}{q}$, $q^{-y} = \frac{1}{r}$, $r^{-z} = \frac{1}{p}$, what is the value of the product xyz ?

- (A) -1 (B) $\frac{1}{pqr}$ (C) 1 (D) pqr

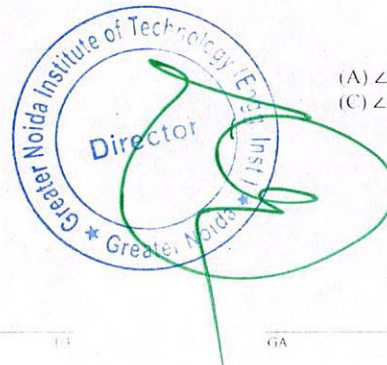
Q.8 In a party, 60% of the invited guests are male and 40% are female. If 80% of the invited guests attended the party and if all the invited female guests attended, what would be the ratio of males to females among the attendees in the party?

- (A) 2:3 (B) 1:1 (C) 3:2 (D) 2:1

Q.9 In the figure below, $\angle DEC + \angle BFC$ is equal to _____.



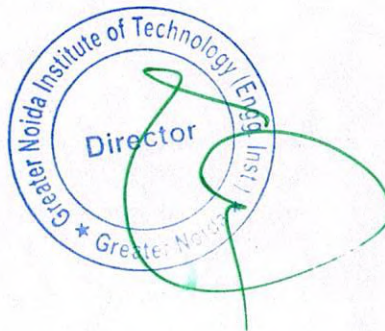
- (A) $\angle BCD - \angle BAD$ (B) $\angle BAD + \angle BCF$
 (C) $\angle BAD + \angle BCD$ (D) $\angle CBA + \angle ADC$



Q.10 A six sided unbiased die with four green faces and two red faces is rolled seven times. Which of the following combinations is the most likely outcome of the experiment?

- (A) Three green faces and four red faces.
 (B) Four green faces and three red faces.
 (C) Five green faces and two red faces.
 (D) Six green faces and one red face.

END OF THE QUESTION PAPER



Q. 1 – Q. 25 carry one mark each.

Q.1 Which one of the following is a closed form expression for the generating function of the sequence $\{a_n\}$, where $a_n = 2n + 3$ for all $n = 0, 1, 2, \dots$?

- (A) $\frac{3}{(1-x)^2}$ (B) $\frac{3x}{(1-x)^2}$ (C) $\frac{2-x}{(1-x)^2}$ (D) $\frac{3-x}{(1-x)^2}$

Q.2 Consider the following C program.

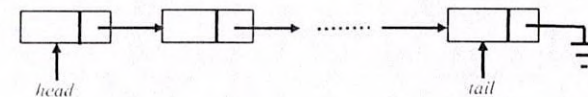
```
#include <stdio.h>
struct Ournode{
    char x, y, z;
};

int main(){
    struct Ournode p = {'1', '0', 'a'+2};
    struct Ournode *q = &p;
    printf ("%c, %c", *((char*)q+1), *((char*)q+2));
    return 0;
}
```

The output of this program is:

- (A) 0, c (B) 0, a+2 (C) '0', 'a+2' (D) '0', 'c'

Q.3 A queue is implemented using a non-circular singly linked list. The queue has a head pointer and a tail pointer, as shown in the figure. Let n denote the number of nodes in the queue. Let `enqueue` be implemented by inserting a new node at the head, and `dequeue` be implemented by deletion of a node from the tail.



Which one of the following is the time complexity of the most time-efficient implementation of `enqueue` and `dequeue`, respectively, for this data structure?

- (A) $\theta(1), \theta(1)$ (B) $\theta(1), \theta(n)$ (C) $\theta(n), \theta(1)$ (D) $\theta(n), \theta(n)$

Q.4 Let \oplus and \odot denote the Exclusive OR and Exclusive NOR operations, respectively. Which one of the following is NOT CORRECT?

- (A) $\overline{P \oplus Q} = P \odot Q$
 (B) $\overline{P} \oplus Q = P \odot Q$
 (C) $\overline{P} \oplus \overline{Q} = P \oplus Q$
 (D) $(P \oplus \overline{P}) \oplus Q = (P \odot \overline{P}) \odot \overline{Q}$

Q.5 Consider the following processor design characteristics.

- I. Register-to-register arithmetic operations only
 II. Fixed-length instruction format
 III. Hardwired control unit

Which of the characteristics above are used in the design of a RISC processor?

- (A) I and II only (B) II and III only (C) I and III only (D) I, II and III

Q.6 Let N be an NFA with n states. Let k be the number of states of a minimal DFA which is equivalent to N . Which one of the following is necessarily true?

- (A) $k \geq 2^n$ (B) $k \geq n$ (C) $k \leq n^2$ (D) $k \leq 2^n$

Q.7 The set of all recursively enumerable languages is

- (A) closed under complementation.
 (B) closed under intersection.
 (C) a subset of the set of all recursive languages.
 (D) an uncountable set.

Q.8 Which one of the following statements is FALSE?

- (A) Context-free grammar can be used to specify both lexical and syntax rules.
 (B) Type checking is done before parsing.
 (C) High-level language programs can be translated to different Intermediate Representations.
 (D) Arguments to a function can be passed using the program stack.

Q.9 The following are some events that occur after a device controller issues an interrupt while process L is under execution.

- (P) The processor pushes the process status of L onto the control stack.
 (Q) The processor finishes the execution of the current instruction.
 (R) The processor executes the interrupt service routine.
 (S) The processor pops the process status of L from the control stack.
 (T) The processor loads the new PC value based on the interrupt.

Which one of the following is the correct order in which the events above occur?

- (A) QPTRS (B) PTRSQ (C) TRPQS (D) QTPRS

Q.10 Consider a process executing on an operating system that uses demand paging. The average time for a memory access in the system is M units if the corresponding memory page is available in memory, and D units if the memory access causes a page fault. It has been experimentally measured that the average time taken for a memory access in the process is X units.

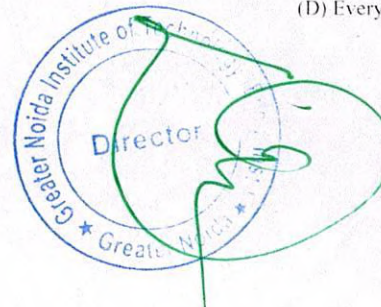
Which one of the following is the correct expression for the page fault rate experienced by the process?

- (A) $(D - M) / (X - M)$ (B) $(X - M) / (D - M)$
 (C) $(D - X) / (D - M)$ (D) $(X - M) / (D - X)$

Q.11 In an Entity-Relationship (ER) model, suppose R is a many-to-one relationship from entity set $E1$ to entity set $E2$. Assume that $E1$ and $E2$ participate totally in R and that the cardinality of $E1$ is greater than the cardinality of $E2$.

Which one of the following is true about R ?

- (A) Every entity in $E1$ is associated with exactly one entity in $E2$.
 (B) Some entity in $E1$ is associated with more than one entity in $E2$.
 (C) Every entity in $E2$ is associated with exactly one entity in $E1$.
 (D) Every entity in $E2$ is associated with at most one entity in $E1$.



Q.12 Consider the following two tables and four queries in SQL.

Book (isbn, bname), Stock (isbn, copies)

- Query 1: SELECT B.isbn, S.copies
FROM Book B INNER JOIN Stock S
ON B.isbn = S.isbn;
- Query 2: SELECT B.isbn, S.copies
FROM Book B LEFT OUTER JOIN Stock S
ON B.isbn = S.isbn;
- Query 3: SELECT B.isbn, S.copies
FROM Book B RIGHT OUTER JOIN Stock S
ON B.isbn = S.isbn;
- Query 4: SELECT B.isbn, S.copies
FROM Book B FULL OUTER JOIN Stock S
ON B.isbn = S.isbn;

Which one of the queries above is certain to have an output that is a superset of the outputs of the other three queries?

- (A) Query 1 (B) Query 2 (C) Query 3 (D) Query 4

Q.13 Match the following:

Field	Length in bits
P. UDP Header's Port Number	I. 48
Q. Ethernet MAC Address	II. 8
R. IPv6 Next Header	III. 32
S. TCP Header's Sequence Number	IV. 16

- (A) P-III, Q-IV, R-II, S-I (B) P-II, Q-I, R-IV, S-III
(C) P-IV, Q-I, R-II, S-III (D) P-IV, Q-I, R-III, S-II

Q.14 Consider the following statements regarding the slow start phase of the TCP congestion control algorithm. Note that *cwnd* stands for the TCP congestion window and MSS denotes the Maximum Segment Size.

- (i) The *cwnd* increases by 2 MSS on every successful acknowledgment.
(ii) The *cwnd* approximately doubles on every successful acknowledgement.
(iii) The *cwnd* increases by 1 MSS every round trip time.
(iv) The *cwnd* approximately doubles every round trip time.

Which one of the following is correct?

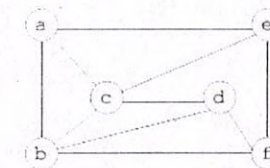
- (A) Only (ii) and (iii) are true (B) Only (i) and (iii) are true
(C) Only (iv) is true (D) Only (i) and (iv) are true

Q.15 Two people, P and Q, decide to independently roll two identical dice, each with 6 faces, numbered 1 to 6. The person with the lower number wins. In case of a tie, they roll the dice repeatedly until there is no tie. Define a trial as a throw of the dice by P and Q. Assume that all 6 numbers on each dice are equi-probable and that all trials are independent. The probability (rounded to 3 decimal places) that one of them wins on the third trial is _____.

Q.16 The value of $\int_0^{\pi/4} x \cos(x^2) dx$ correct to three decimal places (assuming that $\pi = 3.14$) is _____.

Q.17 Consider a matrix $A = uv^T$ where $u = \begin{pmatrix} 1 \\ 2 \end{pmatrix}$, $v = \begin{pmatrix} 1 \\ 1 \end{pmatrix}$. Note that v^T denotes the transpose of v . The largest eigenvalue of A is _____.

Q.18 The chromatic number of the following graph is _____.



Q.19 Let G be a finite group on 84 elements. The size of a largest possible proper subgroup of G is _____.

Q.20 The postorder traversal of a binary tree is 8,9,6,7,4,5,2,3,1. The inorder traversal of the same tree is 8,6,9,4,7,2,5,1,3. The height of a tree is the length of the longest path from the root to any leaf. The height of the binary tree above is _____.

Q.21 Consider the following C program:

```
#include <stdio.h>

int counter = 0;

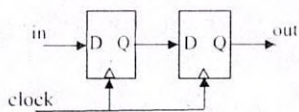
int calc (int a, int b) {
    int c;

    counter++;
    if (b==3) return (a*a*a);
    else {
        c = calc(a, b/3);
        return (c*c*c);
    }
}

int main () {
    calc(4, 81);
    printf ("%d", counter);
}
```

The output of this program is _____.

Q.22 Consider the sequential circuit shown in the figure, where both flip-flops used are positive edge-triggered D flip-flops.



The number of states in the state transition diagram of this circuit that have a transition back to the same state on some value of "in" is _____.

Q.23 A 32-bit wide main memory unit with a capacity of 1 GB is built using $256\text{M} \times 4$ -bit DRAM chips. The number of rows of memory cells in the DRAM chip is 2^{14} . The time taken to perform one refresh operation is 50 nanoseconds. The refresh period is 2 milliseconds. The percentage (rounded to the closest integer) of the time available for performing the memory read/write operations in the main memory unit is _____.

Q.24 Consider a system with 3 processes that share 4 instances of the same resource type. Each process can request a maximum of K instances. Resource instances can be requested and released only one at a time. The largest value of K that will always avoid deadlock is _____.

Q.25 Consider a long-lived TCP session with an end-to-end bandwidth of 1 Gbps ($= 10^9$ bits-per-second). The session starts with a sequence number of 1234. The minimum time (in seconds, rounded to the closest integer) before this sequence number can be used again is _____.

Q. 26 – Q. 55 carry two marks each.

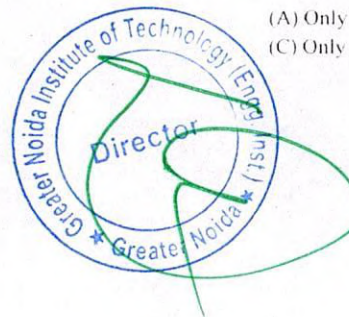
Q.26 Consider a matrix P whose only eigenvectors are the multiples of $\begin{bmatrix} 1 \\ 4 \end{bmatrix}$.

Consider the following statements.

- (I) P does not have an inverse
- (II) P has a repeated eigenvalue
- (III) P cannot be diagonalized

Which one of the following options is correct?

- (A) Only I and III are necessarily true
- (B) Only II is necessarily true
- (C) Only I and II are necessarily true
- (D) Only II and III are necessarily true



Q.27 Let N be the set of natural numbers. Consider the following sets.

- P : Set of Rational numbers (positive and negative)
 Q : Set of functions from $\{0, 1\}$ to N
 R : Set of functions from N to $\{0, 1\}$
 S : Set of finite subsets of N .

Which of the sets above are countable?

- (A) Q and S only (B) P and S only (C) P and R only (D) P , Q and S only

Q.28 Consider the first-order logic sentence

$$\varphi \equiv \exists s \exists t \exists u \forall v \forall w \forall x \forall y \psi(s, t, u, v, w, x, y)$$

where $\psi(s, t, u, v, w, x, y)$ is a quantifier-free first-order logic formula using only predicate symbols, and possibly equality, but no function symbols. Suppose φ has a model with a universe containing 7 elements.

Which one of the following statements is necessarily true?

- (A) There exists at least one model of φ with universe of size less than or equal to 3.
 (B) There exists no model of φ with universe of size less than or equal to 3.
 (C) There exists no model of φ with universe of size greater than 7.
 (D) Every model of φ has a universe of size equal to 7.



Q.29 Consider the following C program:

```
#include<stdio.h>

void fun1(char *s1, char *s2){
    char *tmp;
    tmp = s1;
    s1 = s2;
    s2 = tmp;
}

void fun2(char **s1, char **s2){
    char *tmp;
    tmp = *s1;
    *s1 = *s2;
    *s2 = tmp;
}

int main(){
    char *str1 = "Hi", *str2 = "Bye";
    fun1(str1, str2); printf("s s ", str1, str2);
    fun2(&str1, &str2); printf("s s", str1, str2);
    return 0;
}
```

The output of the program above is

- (A) Hi Bye Bye Hi (B) Hi Bye Hi Bye
 (C) Bye Hi Hi Bye (D) Bye Hi Bye Hi

Q.30 Let G be a simple undirected graph. Let T_D be a depth first search tree of G . Let T_B be a breadth first search tree of G . Consider the following statements.

- (I) No edge of G is a cross edge with respect to T_D . (A cross edge in G is between two nodes neither of which is an ancestor of the other in T_D .)
 (II) For every edge (u, v) of G , if u is at depth i and v is at depth j in T_B , then $|i - j| = 1$.

Which of the statements above must necessarily be true?

- (A) I only (B) II only
 (C) Both I and II (D) Neither I nor II

- Q.31 Assume that multiplying a matrix G_1 of dimension $p \times q$ with another matrix G_2 of dimension $q \times r$ requires pqr scalar multiplications. Computing the product of n matrices $G_1G_2G_3 \dots G_n$ can be done by parenthesizing in different ways. Define $G_i G_{i+1}$ as an **explicitly computed pair** for a given parenthesization if they are directly multiplied. For example, in the matrix multiplication chain $G_1G_2G_3G_4G_5G_6$ using parenthesization $(G_1(G_2G_3))(G_4(G_5G_6))$, G_2G_3 and G_5G_6 are the only explicitly computed pairs.

Consider a matrix multiplication chain $F_1F_2F_3F_4F_5$, where matrices F_1, F_2, F_3, F_4 and F_5 are of dimensions $2 \times 25, 25 \times 3, 3 \times 16, 16 \times 1$ and 1×1000 , respectively. In the parenthesization of $F_1F_2F_3F_4F_5$ that minimizes the total number of scalar multiplications, the explicitly computed pairs are

- (A) F_1F_2 and F_3F_4 only
 (B) F_2F_3 only
 (C) F_3F_4 only
 (D) F_1F_2 and F_4F_5 only
- Q.32 Consider the following C code. Assume that `unsigned long int` type length is 64 bits.

```
unsigned long int fun(unsigned long int n) {
    unsigned long int i, j = 0, sum = 0;
    for (i = n; i > 1; i = i/2) j++;
    for (i = j; j > 1; j = j/2) sum++;
    return sum;
}
```

The value returned when we call `fun` with the input 2^{40} is

- (A) 4
 (B) 5
 (C) 6
 (D) 40
- Q.33 Consider the unsigned 8-bit fixed point binary number representation below,

$b_7 b_6 b_5 b_4 b_3 . b_2 b_1 b_0$

where the position of the binary point is between b_3 and b_2 . Assume b_7 is the most significant bit. Some of the decimal numbers listed below **cannot** be represented **exactly** in the above representation:

(i) 31.500 (ii) 0.875 (iii) 12.100 (iv) 3.001

Which one of the following statements is true?

- (A) None of (i), (ii), (iii), (iv) can be exactly represented
 (B) Only (ii) cannot be exactly represented
 (C) Only (iii) and (iv) cannot be exactly represented
 (D) Only (i) and (ii) cannot be exactly represented

- Q.34 The size of the physical address space of a processor is 2^P bytes. The word length is 2^W bytes. The capacity of cache memory is 2^N bytes. The size of each cache block is 2^M words. For a K -way set-associative cache memory, the length (in number of bits) of the tag field is

- (A) $P - N - \log_2 K$
 (B) $P - N + \log_2 K$
 (C) $P - N - M - W - \log_2 K$
 (D) $P - N - M - W + \log_2 K$

- Q.35 Consider the following languages

- I. $\{a^m b^n c^p d^q \mid m + p = n + q, \text{ where } m, n, p, q \geq 0\}$
 II. $\{a^m b^n c^p d^q \mid m = n \text{ and } p = q, \text{ where } m, n, p, q \geq 0\}$
 III. $\{a^m b^n c^p d^q \mid m = n = p \text{ and } p \neq q, \text{ where } m, n, p, q \geq 0\}$
 IV. $\{a^m b^n c^p d^q \mid mn = p + q, \text{ where } m, n, p, q \geq 0\}$

Which of the languages above are context-free?

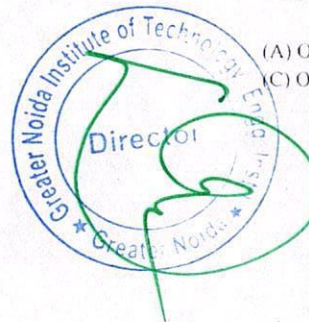
- (A) I and IV only
 (B) I and II only
 (C) II and III only
 (D) II and IV only

- Q.36 Consider the following problems. $L(G)$ denotes the language generated by a grammar G . $L(M)$ denotes the language accepted by a machine M .

- (I) For an unrestricted grammar G and a string w , whether $w \in L(G)$
 (II) Given a Turing machine M , whether $L(M)$ is regular
 (III) Given two grammars G_1 and G_2 , whether $L(G_1) = L(G_2)$
 (IV) Given an NFA N , whether there is a deterministic PDA P such that N and P accept the same language.

Which one of the following statements is correct?

- (A) Only I and II are undecidable
 (B) Only III is undecidable
 (C) Only II and IV are undecidable
 (D) Only I, II and III are undecidable



Q.37 A lexical analyzer uses the following patterns to recognize three tokens T_1 , T_2 , and T_3 over the alphabet $\{a,b,c\}$.

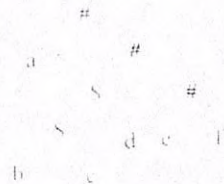
- $T_1: a?(b|c)^*a$
- $T_2: b?(a|c)^*b$
- $T_3: c?(b|a)^*c$

Note that ' $x?$ ' means 0 or 1 occurrence of the symbol x . Note also that the analyzer outputs the token that matches the longest possible prefix.

If the string $bbaacabc$ is processed by the analyzer, which one of the following is the sequence of tokens it outputs?

- (A) $T_1T_2T_3$
- (B) $T_1T_1T_3$
- (C) $T_2T_1T_3$
- (D) T_3T_3

Q.38 Consider the following parse tree for the expression $a\#bSc\#d\#e\#f$, involving two binary operators S and $\#$.



Which one of the following is correct for the given parse tree?

- (A) S has higher precedence and is left associative; $\#$ is right associative
- (B) $\#$ has higher precedence and is left associative; S is right associative
- (C) S has higher precedence and is left associative; $\#$ is left associative
- (D) $\#$ has higher precedence and is right associative; S is left associative

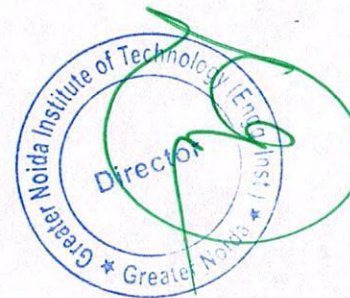
Q.39 In a system, there are three types of resources: E , F and G . Four processes P_0 , P_1 , P_2 and P_3 execute concurrently. At the outset, the processes have declared their maximum resource requirements using a matrix named Max as given below. For example, $\text{Max}[P_2:F]$ is the maximum number of instances of F that P_2 would require. The number of instances of the resources allocated to the various processes at any given state is given by a matrix named Allocation.

Consider a state of the system with the Allocation matrix as shown below, and in which 3 instances of E and 3 instances of F are the only resources available.

Allocation				Max			
	E	F	G		E	F	G
P_0	1	0	1	P_0	4	3	1
P_1	1	1	2	P_1	2	1	4
P_2	1	0	3	P_2	1	3	3
P_3	2	0	0	P_3	5	4	1

From the perspective of deadlock avoidance, which one of the following is true?

- (A) The system is in *safe* state.
- (B) The system is not in *safe* state, but would be *safe* if one more instance of E were available
- (C) The system is not in *safe* state, but would be *safe* if one more instance of F were available
- (D) The system is not in *safe* state, but would be *safe* if one more instance of G were available



- Q.40 Consider the following solution to the producer-consumer synchronization problem. The shared buffer size is N . Three semaphores *empty*, *full* and *mutex* are defined with respective initial values of 0, N and 1. Semaphore *empty* denotes the number of available slots in the buffer, for the consumer to read from. Semaphore *full* denotes the number of available slots in the buffer, for the producer to write to. The placeholder variables, denoted by P , Q , R , and S , in the code below can be assigned either *empty* or *full*. The valid semaphore operations are: `wait()` and `signal()`.

Producer:	Consumer:
<pre>do{ wait(P); wait(mutex); //Add item to buffer signal(mutex); signal(Q); }while(1);</pre>	<pre>do{ wait(R); wait(mutex); //Consume item from buffer signal(mutex); signal(S); }while(1);</pre>

Which one of the following assignments to P , Q , R and S will yield the correct solution?

- (A) $P: full, Q: full, R: empty, S: empty$
 (B) $P: empty, Q: empty, R: full, S: full$
 (C) $P: full, Q: empty, R: empty, S: full$
 (D) $P: empty, Q: full, R: full, S: empty$
- Q.41 Consider the relations $r(A, B)$ and $s(B, C)$, where $s.B$ is a primary key and $r.B$ is a foreign key referencing $s.B$. Consider the query

$$Q: r \bowtie (\sigma_{B < 5}(s))$$

Let *LOJ* denote the natural left outer-join operation. Assume that r and s contain no null values.

Which one of the following queries is NOT equivalent to Q ?

- (A) $\sigma_{B < 5}(r \bowtie s)$ (B) $\sigma_{B < 5}(r \text{ LOJ } s)$
 (C) $r \text{ LOJ } (\sigma_{B < 5}(s))$ (D) $\sigma_{B < 5}(r) \text{ LOJ } s$

- Q.42 Consider the following four relational schemas. For each schema, all non-trivial functional dependencies are listed. The underlined attributes are the respective primary keys.

Schema I: *Registration* (rollno, *courses*)

Field '*courses*' is a set-valued attribute containing the set of courses a student has registered for.

Non-trivial functional dependency:

$$\text{rollno} \rightarrow \text{courses}$$

Schema II: *Registration* (rollno, *courseid*, *email*)

Non-trivial functional dependencies:

$$\text{rollno}, \text{courseid} \rightarrow \text{email}$$

$$\text{email} \rightarrow \text{rollno}$$

Schema III: *Registration* (rollno, *courseid*, *marks*, *grade*)

Non-trivial functional dependencies:

$$\text{rollno}, \text{courseid} \rightarrow \text{marks}, \text{grade}$$

$$\text{marks} \rightarrow \text{grade}$$

Schema IV: *Registration* (rollno, *courseid*, *credit*)

Non-trivial functional dependencies:

$$\text{rollno}, \text{courseid} \rightarrow \text{credit}$$

$$\text{courseid} \rightarrow \text{credit}$$

Which one of the relational schemas above is in 3NF but not in BCNF?

- (A) Schema I (B) Schema II (C) Schema III (D) Schema IV

- Q.43 Let G be a graph with $100!$ vertices, with each vertex labelled by a distinct permutation of the numbers $1, 2, \dots, 100$. There is an edge between vertices u and v if and only if the label of u can be obtained by swapping two adjacent numbers in the label of v . Let y denote the degree of a vertex in G , and z denote the number of connected components in G . Then, $y + 10z = \underline{\hspace{2cm}}$.



- Q.44 Consider Guwahati (G) and Delhi (D) whose temperatures can be classified as high (H), medium (M) and low (L). Let $P(H_G)$ denote the probability that Guwahati has high temperature. Similarly, $P(M_G)$ and $P(L_G)$ denotes the probability of Guwahati having medium and low temperatures respectively. Similarly, we use $P(H_D)$, $P(M_D)$ and $P(L_D)$ for Delhi.

The following table gives the conditional probabilities for Delhi's temperature given Guwahati's temperature.

	H_D	M_D	L_D
H_G	0.40	0.48	0.12
M_G	0.10	0.65	0.25
L_G	0.01	0.50	0.49

Consider the first row in the table above. The first entry denotes that if Guwahati has high temperature (H_G) then the probability of Delhi also having a high temperature (H_D) is 0.40, i.e., $P(H_D|H_G) = 0.40$. Similarly, the next two entries are $P(M_D|H_G) = 0.48$ and $P(L_D|H_G) = 0.12$. Similarly for the other rows.

If it is known that $P(H_G) = 0.2$, $P(M_G) = 0.5$, and $P(L_G) = 0.3$, then the probability (correct to two decimal places) that Guwahati has high temperature given that Delhi has high temperature is _____.

- Q.45 Consider the following program written in pseudo-code. Assume that x and y are integers.

```

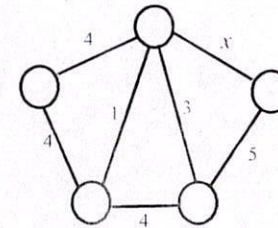
Count(x, y) {
  if (y != 0) {
    if (x != 1) {
      print("**");
      Count(x/2, y);
    }
    else {
      y = y-1;
      Count(1024, y);
    }
  }
}

```

The number of times that the print statement is executed by the call Count(1024, 1024) is _____.

- Q.46 The number of possible min-heaps containing each value from $\{1, 2, 3, 4, 5, 6, 7\}$ exactly once is _____.

- Q.47 Consider the following undirected graph G:



Choose a value for x that will maximize the number of minimum weight spanning trees (MWSTs) of G. The number of MWSTs of G for this value of x is _____.

- Q.48 Consider the weights and values of items listed below. Note that there is only one unit of each item.

Item number	Weight (in Kgs)	Value (in Rupees)
1	10	60
2	7	28
3	4	20
4	2	24

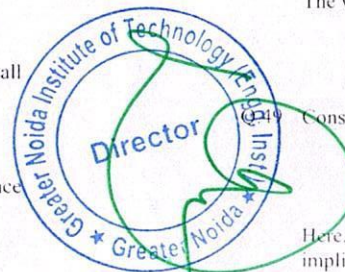
The task is to pick a subset of these items such that their total weight is no more than 11 Kgs and their total value is maximized. Moreover, no item may be split. The total value of items picked by an optimal algorithm is denoted by V_{opt} . A greedy algorithm sorts the items by their value-to-weight ratios in descending order and packs them greedily, starting from the first item in the ordered list. The total value of items picked by the greedy algorithm is denoted by V_{greedy} .

The value of $V_{opt} - V_{greedy}$ is _____.

Consider the minterm list form of a Boolean function F given below.

$$F(P, Q, R, S) = \sum m(0, 2, 5, 7, 9, 11) + d(3, 8, 10, 12, 14)$$

Here, m denotes a minterm and d denotes a don't care term. The number of essential prime implicants of the function F is _____.



- Q.50 The instruction pipeline of a RISC processor has the following stages: Instruction Fetch (IF), Instruction Decode (ID), Operand Fetch (OF), Perform Operation (PO) and Writeback (WB). The IF, ID, OF and WB stages take 1 clock cycle each for every instruction. Consider a sequence of 100 instructions. In the PO stage, 40 instructions take 3 clock cycles each, 35 instructions take 2 clock cycles each, and the remaining 25 instructions take 1 clock cycle each. Assume that there are no data hazards and no control hazards.

The number of clock cycles required for completion of execution of the sequence of instructions is _____.

- Q.51 A processor has 16 integer registers (R0, R1, ..., R15) and 64 floating point registers (F0, F1, ..., F63). It uses a 2-byte instruction format. There are four categories of instructions: Type-1, Type-2, Type-3, and Type-4. Type-1 category consists of four instructions, each with 3 integer register operands (3Rs). Type-2 category consists of eight instructions, each with 2 floating point register operands (2Fs). Type-3 category consists of fourteen instructions, each with one integer register operand and one floating point register operand (1R+1F). Type-4 category consists of N instructions, each with a floating point register operand (1F).

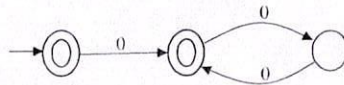
The maximum value of N is _____.

- Q.52 Given a language L , define L^i as follows:

$$L^0 = \{\epsilon\}$$

$$L^i = L^{i-1} \cdot L \text{ for all } i > 0$$

The order of a language L is defined as the smallest k such that $L^k = L^{k+1}$. Consider the language L_1 (over alphabet 0) accepted by the following automaton.



The order of L_1 is _____.

- Q.53 Consider a storage disk with 4 platters (numbered as 0, 1, 2 and 3), 200 cylinders (numbered as 0, 1, ..., 199), and 256 sectors per track (numbered as 0, 1, ..., 255). The following 6 disk requests of the form [sector number, cylinder number, platter number] are received by the disk controller at the same time:

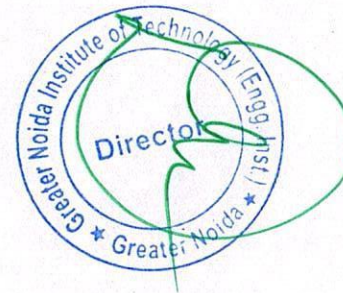
$$[120, 72, 2], [180, 134, 1], [60, 20, 0], [212, 86, 3], [56, 116, 2], [118, 16, 1]$$

Currently the head is positioned at sector number 100 of cylinder 80, and is moving towards higher cylinder numbers. The average power dissipation in moving the head over 100 cylinders is 20 milliwatts and for reversing the direction of the head movement once is 15 milliwatts. Power dissipation associated with rotational latency and switching of head between different platters is negligible.

The total power consumption in milliwatts to satisfy all of the above disk requests using the Shortest Seek Time First disk scheduling algorithm is _____.

- Q.54 Consider an IP packet with a length of 4,500 bytes that includes a 20-byte IPv4 header and a 40-byte TCP header. The packet is forwarded to an IPv4 router that supports a Maximum Transmission Unit (MTU) of 600 bytes. Assume that the length of the IP header in all the outgoing fragments of this packet is 20 bytes. Assume that the fragmentation offset value stored in the first fragment is 0.

The fragmentation offset value stored in the third fragment is _____.

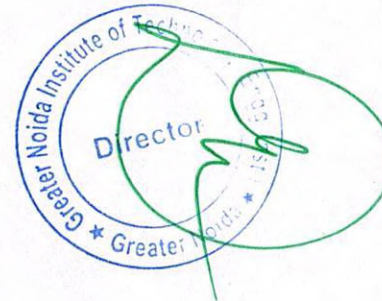


Q.55 Consider a simple communication system where multiple nodes are connected by a shared broadcast medium (like Ethernet or wireless). The nodes in the system use the following carrier-sense based medium access protocol. A node that receives a packet to transmit will carrier-sense the medium for 5 units of time. If the node does not detect any other transmission in this duration, it starts transmitting its packet in the next time unit. If the node detects another transmission, it waits until this other transmission finishes, and then begins to carrier-sense for 5 time units again. Once they start to transmit, nodes do not perform any collision detection and continue transmission even if a collision occurs. All transmissions last for 20 units of time. Assume that the transmission signal travels at the speed of 10 meters per unit time in the medium.

Assume that the system has two nodes P and Q, located at a distance d meters from each other. P starts transmitting a packet at time $t=0$ after successfully completing its carrier-sense phase. Node Q has a packet to transmit at time $t=0$ and begins to carrier-sense the medium.

The maximum distance d (in meters, rounded to the closest integer) that allows Q to successfully avoid a collision between its proposed transmission and P's ongoing transmission is _____.

END OF THE QUESTION PAPER



Q. 1 – Q. 5 carry one mark each.

Q.1 The expenditure on the project _____ as follows: equipment Rs.20 lakhs, salaries Rs.12 lakhs, and contingency Rs.3 lakhs.

- (A) break down (B) break (C) breaks down (D) breaks

Q.2 The search engine's business model _____ around the fulcrum of trust.

- (A) revolves (B) plays (C) sinks (D) bursts

Q.3 Two cars start at the same time from the same location and go in the same direction. The speed of the first car is 50 km/h and the speed of the second car is 60 km/h. The number of hours it takes for the distance between the two cars to be 20 km is _____.

- (A) 1 (B) 2 (C) 3 (D) 6

Q.4 Ten friends planned to share equally the cost of buying a gift for their teacher. When two of them decided not to contribute, each of the other friends had to pay Rs 150 more. The cost of the gift was Rs. _____.

- (A) 666 (B) 3000 (C) 6000 (D) 12000

Q.5 A court is to a judge as _____ is to a teacher.

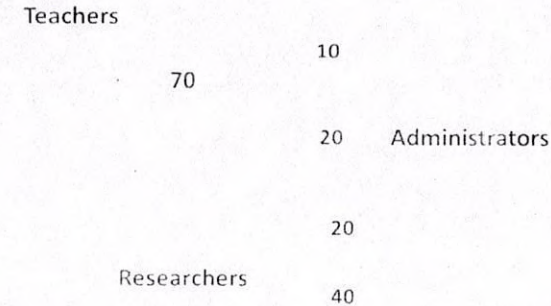
- (A) a student (B) a punishment (C) a syllabus (D) a school

Q. 6 – Q. 10 carry two marks each.

Q.6 The police arrested four criminals – P, Q, R and S. The criminals knew each other. They made the following statements:
P says "Q committed the crime."
Q says "S committed the crime."
R says "I did not do it."
S says "What Q said about me is false."
Assume only one of the arrested four committed the crime and only one of the statements made above is true. Who committed the crime?

- (A) P (B) R (C) S (D) Q

Q.7 In the given diagram, teachers are represented in the triangle, researchers in the circle and administrators in the rectangle. Out of the total number of the people, the percentage of administrators shall be in the range of _____.



- (A) 0 to 15 (B) 16 to 30 (C) 31 to 45 (D) 46 to 60

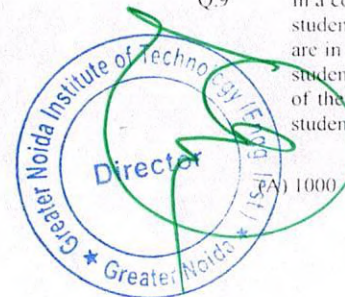
Q.8 "A recent High Court judgement has sought to dispel the idea of begging as a disease — which leads to its stigmatization and criminalization — and to regard it as a symptom. The underlying disease is the failure of the state to protect citizens who fall through the social security net."

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

- (A) Beggars are lazy people who beg because they are unwilling to work
(B) Beggars are created because of the lack of social welfare schemes
(C) Begging is an offence that has to be dealt with firmly
(D) Begging has to be banned because it adversely affects the welfare of the state

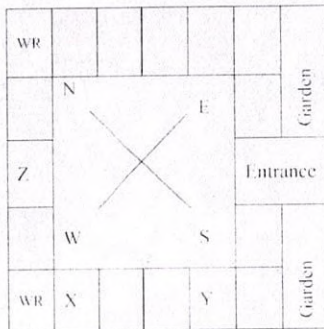
Q.9 In a college, there are three student clubs. Sixty students are only in the Drama club, 80 students are only in the Dance club, 30 students are only in the Maths club, 40 students are in both Drama and Dance clubs, 12 students are in both Dance and Maths clubs, 7 students are in both Drama and Maths clubs, and 2 students are in all the clubs. If 75% of the students in the college are not in any of these clubs, then the total number of students in the college is _____.

- (A) 1000 (B) 975 (C) 900 (D) 225

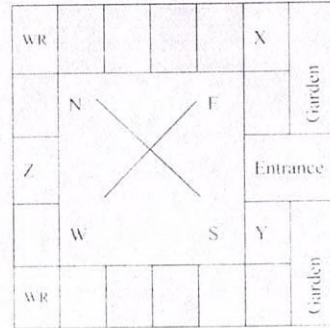


Q.10 Three of the five students allocated to a hostel put in special requests to the warden. Given the floor plan of the vacant rooms, select the allocation plan that will accommodate all their requests.
 Request by X: Due to pollen allergy, I want to avoid a wing next to the garden.
 Request by Y: I want to live as far from the washrooms as possible, since I am very sensitive to smell.
 Request by Z: I believe in Vaastu and so want to stay in the South-west wing.
 The shaded rooms are already occupied. WR is washroom.

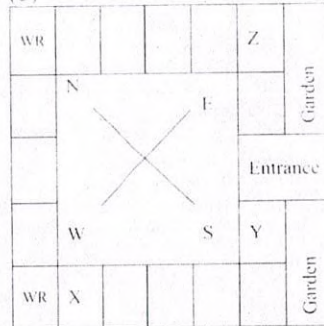
(A)



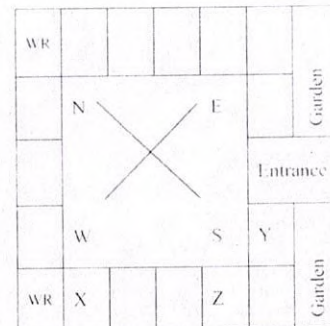
(B)



(C)



(D)



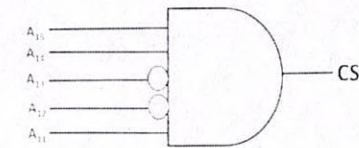
END OF THE QUESTION PAPER



Q.1 A certain processor uses a fully associative cache of size 16 kB. The cache block size is 16 bytes. Assume that the main memory is byte addressable and uses a 32-bit address. How many bits are required for the *Tag* and the *Index* fields respectively in the addresses generated by the processor?

- (A) 24 bits and 0 bits
- (B) 28 bits and 4 bits
- (C) 24 bits and 4 bits
- (D) 28 bits and 0 bits

Q.2 The chip select logic for a certain DRAM chip in a memory system design is shown below. Assume that the memory system has 16 address lines denoted by A_{15} to A_0 . What is the range of addresses (in hexadecimal) of the memory system that can get enabled by the chip select (CS) signal?



- (A) C800 to CFFF
- (B) CA00 to CAFF
- (C) C800 to C8FF
- (D) DA00 to DFFF

Q.3 Which one of the following kinds of derivation is used by LR parsers?

- (A) Leftmost
- (B) Leftmost in reverse
- (C) Rightmost
- (D) Rightmost in reverse

Q.4 In 16-bit 2's complement representation, the decimal number -28 is:

- (A) 1111 1111 0001 1100
- (B) 0000 0000 1110 0100
- (C) 1111 1111 1110 0100
- (D) 1000 0000 1110 0100

Q.5 Let $U = \{1, 2, \dots, n\}$. Let $A = \{(x, X) | x \in X, X \subseteq U\}$. Consider the following two statements on $|A|$.

- I. $|A| = n2^{n-1}$
- II. $|A| = \sum_{k=1}^n k \binom{n}{k}$

Which of the above statements is/are TRUE?

- (A) Only I
- (B) Only II
- (C) Both I and II
- (D) Neither I nor II

Q.6 Which one of the following is NOT a valid identity?

- (A) $(x \oplus y) \oplus z = x \oplus (y \oplus z)$ (B) $(x + y) \oplus z = x \oplus (y + z)$
 (C) $x \oplus y = x + y$, if $xy = 0$ (D) $x \oplus y = (xy + x'y')'$

Q.7 If L is a regular language over $\Sigma = \{a, b\}$, which one of the following languages is NOT regular?

- (A) $L \cdot L^R = \{xy \mid x \in L, y^R \in L\}$
 (B) $\{ww^R \mid w \in L\}$
 (C) $\text{Prefix}(L) = \{x \in \Sigma^* \mid \exists y \in \Sigma^* \text{ such that } xy \in L\}$
 (D) $\text{Suffix}(L) = \{y \in \Sigma^* \mid \exists x \in \Sigma^* \text{ such that } xy \in L\}$

Q.8 Consider $Z = X - Y$, where X , Y and Z are all in sign-magnitude form. X and Y are each represented in n bits. To avoid overflow, the representation of Z would require a minimum of:

- (A) n bits (B) $n - 1$ bits
 (C) $n + 1$ bits (D) $n + 2$ bits

Q.9 Let X be a square matrix. Consider the following two statements on X .

- I. X is invertible.
 II. Determinant of X is non-zero.

Which one of the following is TRUE?

- (A) I implies II; II does not imply I.
 (B) II implies I; I does not imply II.
 (C) I does not imply II; II does not imply I.
 (D) I and II are equivalent statements.

Q.10 Let G be an arbitrary group. Consider the following relations on G :

- $R_1: \forall a, b \in G, a R_1 b$ if and only if $\exists g \in G$ such that $a = g^{-1}bg$
 $R_2: \forall a, b \in G, a R_2 b$ if and only if $a = b^{-1}$

Which of the above is/are equivalence relation(s)?

- (A) R_1 and R_2 (B) R_1 only (C) R_2 only (D) Neither R_1 nor R_2

Q.11 Consider the following two statements about database transaction schedules:

- I. Strict two-phase locking protocol generates conflict serializable schedules that are also recoverable.
 II. Timestamp-ordering concurrency control protocol with Thomas' Write Rule can generate view serializable schedules that are not conflict serializable.

Which of the above statements is/are TRUE?

- (A) I only (B) II only (C) Both I and II (D) Neither I nor II

Q.12 Let G be an undirected complete graph on n vertices, where $n > 2$. Then, the number of different Hamiltonian cycles in G is equal to

- (A) $n!$ (B) $(n - 1)!$ (C) 1 (D) $\frac{(n-1)!}{2}$

Q.13 Compute $\lim_{x \rightarrow 3} \frac{x^4 - 81}{2x^2 - 5x + 3}$

- (A) 1 (B) 53/12
 (C) 108/7 (D) Limit does not exist

Q.14 Which one of the following statements is NOT correct about the B+ tree data structure used for creating an index of a relational database table?

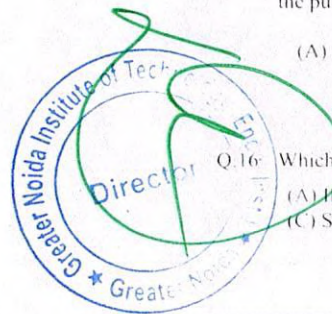
- (A) B+ Tree is a height-balanced tree
 (B) Non-leaf nodes have pointers to data records
 (C) Key values in each node are kept in sorted order
 (D) Each leaf node has a pointer to the next leaf node

Q.15 For $\Sigma = \{a, b\}$, let us consider the regular language $L = \{x \mid x = a^{2+3k} \text{ or } x = b^{10+12k}, k \geq 0\}$. Which one of the following can be a pumping length (the constant guaranteed by the pumping lemma) for L ?

- (A) 3 (B) 5 (C) 9 (D) 24

Q.16 Which of the following protocol pairs can be used to send and retrieve e-mails (in that order)?

- (A) IMAP, POP3 (B) SMTP, POP3
 (C) SMTP, MIME (D) IMAP, SMTP



Q.17 The following C program is executed on a Unix/Linux system:

```
#include <unistd.h>
int main()
{
    int i;
    for (i=0; i<10; i++)
        if (i%2 == 0) fork();
    return 0;
}
```

The total number of child processes created is _____.

Q.18 Consider the following C program:

```
#include <stdio.h>
int jumble(int x, int y){
    x=2*x+y;
    return x;
}
int main(){
    int x=2, y=5;
    y=jumble(y,x);
    x=jumble(y,x);
    printf("%d \n", x);
    return 0;
}
```

The value printed by the program is _____.

Q.19 Consider the grammar given below:

$S \rightarrow Aa$
 $A \rightarrow BD$
 $B \rightarrow b|c$
 $D \rightarrow d|c$

Let a, b, d, and S be indexed as follows:

a	b	d	S
3	2	1	0

Compute the FOLLOW set of the non-terminal B and write the index values for the symbols in the FOLLOW set in the descending order. (For example, if the FOLLOW set is {a, b, d, S}, then the answer should be 3210)

Answer: _____.

Q.20 An array of 25 distinct elements is to be sorted using quicksort. Assume that the pivot element is chosen uniformly at random. The probability that the pivot element gets placed in the worst possible location in the first round of partitioning (rounded off to 2 decimal places) is _____.

Q.21 The value of $3^{51} \bmod 5$ is _____.

Q.22 Two numbers are chosen independently and uniformly at random from the set $\{1, 2, \dots, 13\}$. The probability (rounded off to 3 decimal places) that their 4-bit (unsigned) binary representations have the same most significant bit is _____.

Q.23 Consider three concurrent processes P1, P2 and P3 as shown below, which access a shared variable D that has been initialized to 100.

P1	P2	P3
⋮	⋮	⋮
D = D + 20	D = D - 50	D = D + 10
⋮	⋮	⋮

The processes are executed on a uniprocessor system running a time-shared operating system. If the minimum and maximum possible values of D after the three processes have completed execution are X and Y respectively, then the value of $Y - X$ is _____.

Q.24 Consider the following C program:

```
#include <stdio.h>
int main(){
    int arr[]={1,2,3,4,5,6,7,8,9,0,1,2,5}, *ip=arr+4;
    printf("%d\n", ip[1]);
    return 0;
}
```

The number that will be displayed on execution of the program is _____.



- Q.25 Consider a sequence of 14 elements: $A = [-5, -10, 6, 3, -1, -2, 13, 4, -9, -1, 4, 12, -3, 0]$. The subsequence sum $S(i, j) = \sum_{k=i}^j A[k]$. Determine the maximum of $S(i, j)$, where $0 \leq i \leq j < 14$. (Divide and conquer approach may be used.)

Answer: _____.

- Q.26 Consider the following C function.

```
void convert(int n){
    if(n<0)
        printf("%d",n);
    else {
        convert(n/2);
        printf("%d",n%2);
    }
}
```

Which one of the following will happen when the function `convert` is called with any positive integer n as argument?

- (A) It will print the binary representation of n and terminate
 (B) It will print the binary representation of n in the reverse order and terminate
 (C) It will print the binary representation of n but will not terminate
 (D) It will not print anything and will not terminate
- Q.27 Consider the following C program:

```
#include <stdio.h>
int r(){
    static int num=7;
    return num--;
}

int main(){
    for (r();r();r())
        printf("%d",r());
    return 0;
}
```

Which one of the following values will be displayed on execution of the programs?

- (A) 41 (B) 52 (C) 63 (D) 630

- Q.28 Consider three machines M, N, and P with IP addresses 100.10.5.2, 100.10.5.5, and 100.10.5.6 respectively. The subnet mask is set to 255.255.255.252 for all the three machines. Which one of the following is true?

- (A) M, N, and P all belong to the same subnet
 (B) Only M and N belong to the same subnet
 (C) Only N and P belong to the same subnet
 (D) M, N, and P belong to three different subnets

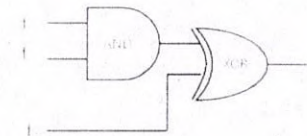
- Q.29 Suppose that in an IP-over-Ethernet network, a machine X wishes to find the MAC address of another machine Y in its subnet. Which one of the following techniques can be used for this?

- (A) X sends an ARP request packet to the local gateway's IP address which then finds the MAC address of Y and sends to X
 (B) X sends an ARP request packet to the local gateway's MAC address which then finds the MAC address of Y and sends to X
 (C) X sends an ARP request packet with broadcast MAC address in its local subnet
 (D) X sends an ARP request packet with broadcast IP address in its local subnet

- Q.30 Consider three 4-variable functions f_1 , f_2 , and f_3 , which are expressed in sum-of-minterms as

$$f_1 = \sum (0, 2, 5, 8, 14), \quad f_2 = \sum (2, 3, 6, 8, 14, 15), \quad f_3 = \sum (2, 7, 11, 14)$$

For the following circuit with one AND gate and one XOR gate, the output function f can be expressed as:



- (A) $\sum (7, 8, 11)$
 (B) $\sum (2, 7, 8, 11, 14)$
 (C) $\sum (2, 14)$
 (D) $\sum (0, 2, 3, 5, 6, 7, 8, 11, 14, 15)$

- Q.31 Which one of the following languages over $\Sigma = \{a, b\}$ is NOT context-free?

- (A) $\{ww^R \mid w \in \{a, b\}^*\}$
 (B) $\{wa^n b^n w^R \mid w \in \{a, b\}^*, n \geq 0\}$
 (C) $\{wa^n w^R b^n \mid w \in \{a, b\}^*, n \geq 0\}$
 (D) $\{a^n b^i \mid i \in \{n, 3n, 5n\}, n \geq 0\}$



- Q.32 Let the set of functional dependencies $F = \{QR \rightarrow S, R \rightarrow P, S \rightarrow Q\}$ hold on a relation schema $X = (PQRS)$. X is not in BCNF. Suppose X is decomposed into two schemas Y and Z , where $Y = (PR)$ and $Z = (QRS)$.

Consider the two statements given below.

- I. Both Y and Z are in BCNF
 II. Decomposition of X into Y and Z is dependency preserving and lossless

Which of the above statements is/are correct?

- (A) Both I and II (B) I only (C) II only (D) Neither I nor II

- Q.33 Assume that in a certain computer, the virtual addresses are 64 bits long and the physical addresses are 48 bits long. The memory is word addressable. The page size is 8 kB and the word size is 4 bytes. The Translation Look-aside Buffer (TLB) in the address translation path has 128 valid entries. At most how many distinct virtual addresses can be translated without any TLB miss?

- (A) 16×2^{10} (B) 256×2^{10} (C) 4×2^{20} (D) 8×2^{20}

- Q.34 Consider the following sets:

- S1. Set of all recursively enumerable languages over the alphabet $\{0,1\}$
 S2. Set of all syntactically valid C programs
 S3. Set of all languages over the alphabet $\{0,1\}$
 S4. Set of all non-regular languages over the alphabet $\{0,1\}$

Which of the above sets are uncountable?

- (A) S1 and S2 (B) S3 and S4 (C) S2 and S3 (D) S1 and S4

- Q.35 Consider the first order predicate formula φ :

$$\forall x [(\forall z z|x \Rightarrow ((z = x) \vee (z = 1))) \Rightarrow \exists w (w > x) \wedge (\forall z z|w \Rightarrow ((w = z) \vee (z = 1)))]$$

Here ' $a|b$ ' denotes that ' a divides b ', where a and b are integers. Consider the following sets:

- S1. $\{1,2,3, \dots, 100\}$
 S2. Set of all positive integers
 S3. Set of all integers

Which of the above sets satisfy φ ?

- (A) S1 and S2 (B) S1 and S3 (C) S2 and S3 (D) S1, S2 and S3

- Q.36 Consider the following grammar and the semantic actions to support the inherited type declaration attributes. Let X_1, X_2, X_3, X_4, X_5 , and X_6 be the placeholders for the non-terminals D, T, L or L_1 in the following table:

Production rule	Semantic action
$D \rightarrow T L$	$X_1.type = X_2.type$
$T \rightarrow int$	$T.type = int$
$T \rightarrow float$	$T.type = float$
$L \rightarrow L_1, id$	$X_3.type = X_4.type$ $addType(id.entry, X_5.type)$
$L \rightarrow id$	$addType(id.entry, X_6.type)$

Which one of the following are the appropriate choices for X_1, X_2, X_3 and X_4 ?

- (A) $X_1 = L, X_2 = T, X_3 = L_1, X_4 = L$ (B) $X_1 = T, X_2 = L, X_3 = L_1, X_4 = T$
 (C) $X_1 = L, X_2 = L, X_3 = L_1, X_4 = T$ (D) $X_1 = T, X_2 = L, X_3 = T, X_4 = L_1$

- Q.37 There are n unsorted arrays: A_1, A_2, \dots, A_n . Assume that n is odd. Each of A_1, A_2, \dots, A_n contains n distinct elements. There are no common elements between any two arrays. The worst-case time complexity of computing the median of the medians of A_1, A_2, \dots, A_n is

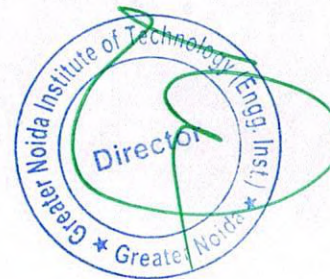
- (A) $O(n)$ (B) $O(n \log n)$ (C) $O(n^2)$ (D) $\Omega(n^2 \log n)$

- Q.38 Let G be any connected, weighted, undirected graph.

- I. G has a unique minimum spanning tree, if no two edges of G have the same weight.
 II. G has a unique minimum spanning tree, if, for every cut of G , there is a unique minimum-weight edge crossing the cut.

Which of the above two statements is/are TRUE?

- (A) I only (B) II only (C) Both I and II (D) Neither I nor II



Q.39 Consider the following snapshot of a system running n concurrent processes. Process i is holding X_i instances of a resource R , $1 \leq i \leq n$. Assume that all instances of R are currently in use. Further, for all i , process i can place a request for at most Y_i additional instances of R while holding the X_i instances it already has. Of the n processes, there are exactly two processes p and q such that $Y_p = Y_q = 0$. Which one of the following conditions guarantees that no other process apart from p and q can complete execution?

- (A) $X_p + X_q < \text{Min} \{Y_k \mid 1 \leq k \leq n, k \neq p, k \neq q\}$
 (B) $X_p + X_q < \text{Max} \{Y_k \mid 1 \leq k \leq n, k \neq p, k \neq q\}$
 (C) $\text{Min} (X_p, X_q) \geq \text{Min} \{Y_k \mid 1 \leq k \leq n, k \neq p, k \neq q\}$
 (D) $\text{Min} (X_p, X_q) \leq \text{Max} \{Y_k \mid 1 \leq k \leq n, k \neq p, k \neq q\}$

Q.40 Consider the following statements:

- I. The smallest element in a max-heap is always at a leaf node
 II. The second largest element in a max-heap is always a child of the root node
 III. A max-heap can be constructed from a binary search tree in $\Theta(n)$ time
 IV. A binary search tree can be constructed from a max-heap in $\Theta(n)$ time

Which of the above statements are TRUE?

- (A) I, II and III (B) I, II and IV (C) I, III and IV (D) II, III and IV

Q.41 Consider the following four processes with arrival times (in milliseconds) and their length of CPU bursts (in milliseconds) as shown below:

Process	P1	P2	P3	P4
Arrival time	0	1	3	4
CPU burst time	3	1	3	Z

These processes are run on a single processor using preemptive Shortest Remaining Time First scheduling algorithm. If the average waiting time of the processes is 1 millisecond, then the value of Z is _____.

Q.42 The index node (inode) of a Unix-like file system has 12 direct, one single-indirect and one double-indirect pointers. The disk block size is 4 kB, and the disk block address is 32-bits long. The maximum possible file size is (rounded off to 1 decimal place) _____ GB.

Q.43 Consider the augmented grammar given below:

$S' \rightarrow S$
 $S \rightarrow (L) \mid id$
 $L \rightarrow L, S \mid S$

Let $I_0 = \text{CLOSURE}(\{S' \rightarrow \bullet S\})$. The number of items in the set $\text{GOTO}(I_0, ()$ is:

Q.44 Consider the following matrix:

$$R = \begin{bmatrix} 1 & 2 & 4 & 8 \\ 1 & 3 & 9 & 27 \\ 1 & 4 & 16 & 64 \\ 1 & 5 & 25 & 125 \end{bmatrix}$$

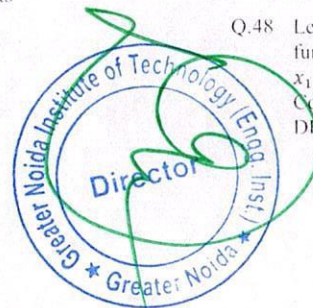
The absolute value of the product of Eigen values of R is _____.

Q.45 A certain processor deploys a single-level cache. The cache block size is 8 words and the word size is 4 bytes. The memory system uses a 60-MHz clock. To service a cache miss, the memory controller first takes 1 cycle to accept the starting address of the block, it then takes 3 cycles to fetch all the eight words of the block, and finally transmits the words of the requested block at the rate of 1 word per cycle. The maximum bandwidth for the memory system when the program running on the processor issues a series of read operations is _____ $\times 10^6$ bytes/sec.

Q.46 Let T be a full binary tree with 8 leaves. (A full binary tree has every level full.) Suppose two leaves a and b of T are chosen uniformly and independently at random. The expected value of the distance between a and b in T (i.e., the number of edges in the unique path between a and b) is (rounded off to 2 decimal places) _____.

Q.47 Suppose Y is distributed uniformly in the open interval (1,6). The probability that the polynomial $3x^2 + 6xY + 3Y + 6$ has only real roots is (rounded off to 1 decimal place) _____.

Q.48 Let Σ be the set of all bijections from $\{1, \dots, 5\}$ to $\{1, \dots, 5\}$, where id denotes the identity function, i.e. $id(j) = j, \forall j$. Let \circ denote composition on functions. For a string $x = x_1 x_2 \dots x_n \in \Sigma^n, n \geq 0$, let $\pi(x) = x_1 \circ x_2 \circ \dots \circ x_n$. Consider the language $L = \{x \in \Sigma^* \mid \pi(x) = id\}$. The minimum number of states in any DFA accepting L is _____.



Q.49 Consider that 15 machines need to be connected in a LAN using 8-port Ethernet switches. Assume that these switches do not have any separate uplink ports. The minimum number of switches needed is _____.

Q.50 What is the minimum number of 2-input NOR gates required to implement a 4-variable function expressed in sum-of-minterms form as $f = \sum (0, 2, 5, 7, 8, 10, 13, 15)$? Assume that all the inputs and their complements are available. Answer: _____.

Q.51 A relational database contains two tables Student and Performance as shown below:

Student		Performance		
Roll no.	Student name	Roll no.	Subject code	Marks
1	Amit	1	A	86
2	Priya	1	B	95
3	Vinit	1	C	90
4	Rohan	2	A	89
5	Smita	2	C	92
		3	C	80

The primary key of the Student table is Roll no. For the Performance table, the columns Roll no. and Subject code together form the primary key. Consider the SQL query given below:

```
SELECT S.Student_name, sum(P.Marks)
FROM Student S, Performance P
WHERE P.Marks > 84
GROUP BY S.Student_name;
```

The number of rows returned by the above SQL query is _____.

Q.52 Consider the following C program:

```
#include <stdio.h>
int main(){
    float sum = 0.0, j = 1.0, i = 2.0;
    while (i/j > 0.0625){
        j = j + j;
        sum = sum + i/j;
        printf("%f\n", sum);
    }
    return 0;
}
```

The number of times the variable sum will be printed, when the above program is executed, is _____.

Q.53 Consider the following C program:

```
#include <stdio.h>
int main()
{
    int a[] = {2, 4, 6, 8, 10};
    int i, sum = 0, *b = a + 4;
    for (i = 0; i < 5; i++)
        sum = sum + (*b - i) - *(b - i);
    printf ("%d\n", sum);
    return 0;
}
```

The output of the above C program is _____.

Q.54 In an RSA cryptosystem, the value of the public modulus parameter n is 3007. If it is also known that $\phi(n) = 2880$, where $\phi()$ denotes Euler's Totient Function, then the prime factor of n which is greater than 50 is _____.

Q.55 Consider the following relations $P(X, Y, Z)$, $Q(X, Y, T)$ and $R(Y, V)$.

P			Q			R	
X	Y	Z	X	Y	T	Y	V
X1	Y1	Z1	X2	Y1	2	Y1	V1
X1	Y1	Z2	X1	Y2	5	Y3	V2
X2	Y2	Z2	X1	Y1	6	Y2	V3
X2	Y4	Z4	X3	Y3	1	Y2	V2

How many tuples will be returned by the following relational algebra query?

$$\prod_X (\sigma_{(P.Y=R.Y \wedge R.V=V2)}(P \times R)) - \prod_X (\sigma_{(Q.Y=R.Y \wedge Q.T>2)}(Q \times R))$$

Answer: _____.





Date: 03/07/2018

Electrical Engineering Department

Circular

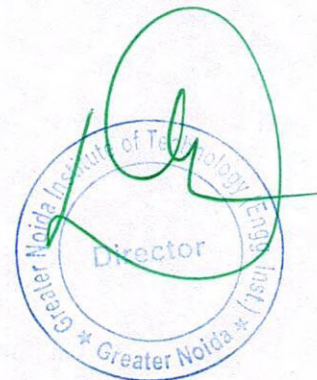
This is to inform all students that GATE classes are being conducted by the Electrical Engineering Department according to the standard syllabus of GATE as per time table on working Saturday (Syllabus under current semester and previous semesters) Electrical Engineering students are hereby informed that in-House GATE coaching will start from 14/07/2018. 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.

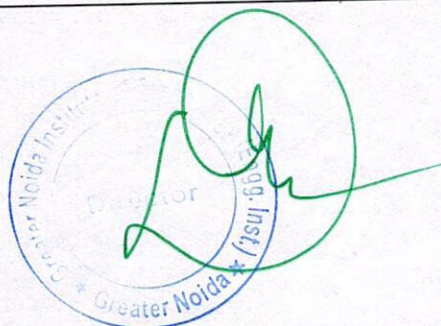
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(Engineering Institute)
Greater Noida

Dr. Sunil Chaudhary
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

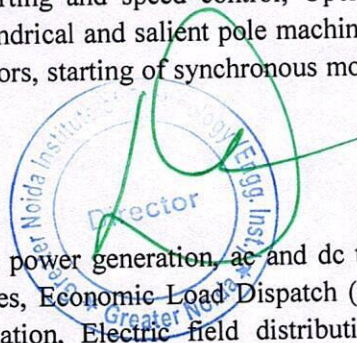
Coulomb's Law, Electric Field Intensity, Electric Flux Density, Gauss's Law, Divergence, Electric field and potential due to point, line, plane and spherical charge distributions, Effect of dielectric medium, Capacitance of simple configurations, Biot- Savart's law, Ampere's law, Curl, Faraday's law, 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



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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

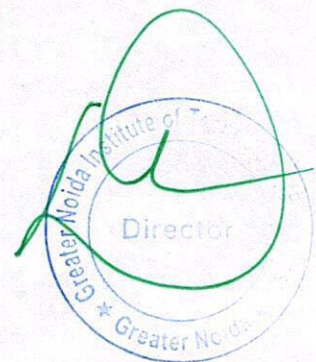
Section 7: Analog and Digital Electronics

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, Butterworth, 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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ELECTRICAL ENGINEERING (Code-EE)
Session (2018-19)
GATE-2019 (Time Table)
w.e.f: 14/07/2018

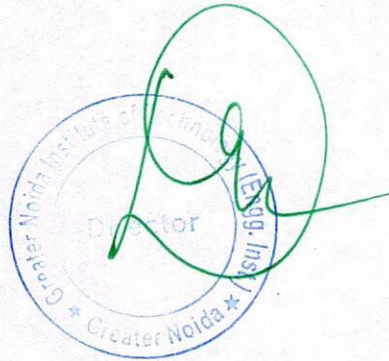
DATE/TIME	9:15-10:55	10:5-12:35	12:35-1:35	1:35-3:15	3:15-4:55
14 JULY 2018	EM	EC	BREAK	EMFT	PE
28 JULY 2018	EMA	PS		CS	ADE
11 AUG 2018	GA	EM		EC	EMFT
25 AUG 2018	PE	EMA		PS	CS
08 SEP 2018	ADE	GA		EM	EC
15 SEP 2018	EMFT	PE		EMA	PS
22 SEP 2018	CS	ADE		GA	EM
29 SEP 2018	EC	EMFT		PE	EMA
06 OCT 2018	PS	CS		ADE	GA
13 OCT 2018	EM	EC		EMFT	PE
20 OCT 2018	EMA	PS		CS	ADE
27 OCT 2018	GA	EM		EC	EMFT
03 NOV 2018	PE	EMA		PS	CS
10 NOV 2018	ADE	GA		EM	EC
17 NOV 2018	EM	EC		EMFT	PE
24 NOV 2018	EMA	PS		CS	ADE
01 DEC 2018	GA	EM		EC	EMFT
08 DEC 2018	PREVIOUS PAPER DISCUSSION			PE	EMA
15 DEC 2018	PREVIOUS PAPER DISCUSSION			PS	CS
22 DEC 2018	PREVIOUS PAPER DISCUSSION			ADE	PE



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Subjects allotted to Faculty members

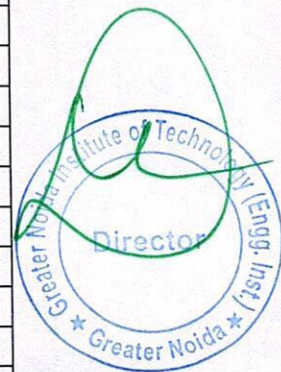
S. No.	Subjects	Faculty
1	Engineering mathematics (EM)	Mr. Sandeep Goyat
2	Electric circuits (EC)	Mr. Ankit Gupta
3	Electromagnetic Fields (EF)	Mr. Sushil Singh
4	Electrical Machines (EMC)	Mr. Nikhil Gupta
5	Power Systems (PS)	Mr. Aneep Malik
6	Control Systems (CS)	Mr. Rajesh Dhaka
7	Analog and Digital Electronics (ADE)	Ms. Renuka Gandhi
8	Power Electronics (PE)	Ms. Indu Bhushan
9	General Aptitude(GA)	Mr. Bhuvnesh Khokhar



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Student List

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

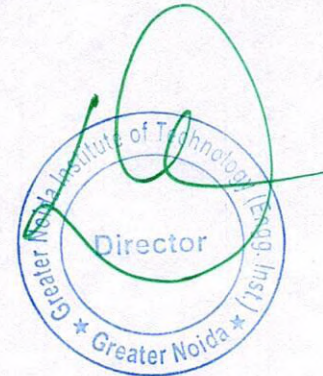




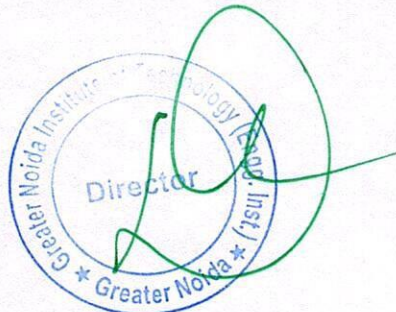
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40	170091	1713220906	MANISH KUMAR	2019-20
41	170189	1713220911	RAJU YADAV	2019-20
42	170366	1713220905	KRISHNA CHANDRA RAI	2019-20
43	170445	1713220904	HUMAZA AMIN SOFI	2019-20
44	170544	1713220912	RAJVEER SINGH	2019-20
45	170549	1713220916	TOUFEEQ 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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S.No.	ID	Enrollment No	Student Name	Batch
1	150910	1513220002	ABHISHEK GAUTAM	2018-19
2	150204	1513220004	ADARSH KUMAR YADAV	2018-19
3	151271	1513220005	ADITYA KUMAR	2018-19
4	150628	1513220008	AJEET KUMAR	2018-19
5	150236	1513220009	AKASH KUMAR VERMA	2018-19
6	150803	1513220010	AKSHAY KUMAR	2018-19
7	150520	1513220011	ALOK KUMAR	2018-19
8	150749	1513220014	AMIT KUMAR	2018-19
9	150503	1513220015	AMIT KUMAR	2018-19
10	151299	1513220017	ARCHIT PRAKASH	2018-19
11	150481	1513220018	ARVIND KUMAR AGRAHARI	2018-19
12	151074	1513220019	ASHISH KUMAR	2018-19
13	150602	1513220021	BASANT KUMAR SINGH	2018-19
14	150674	1513220022	BASHARAT HUSSAIN	2018-19
15	150708	1513220024	CHETAN SINGH	2018-19
16	150716	1513220025	DEEPAK KUMAR MAURYA	2018-19
17	150197	1513220026	DEEPAK SHARMA	2018-19
18	150889	1513220028	DIGVIJAY THAKUR	2018-19
19	151255	1513220029	FAHAD KHAN	2018-19
20	140625	1413220034	JAUHAR ALI	2018-19
21	150975	1513220031	JITENDRA KUMAR RAI	2018-19
22	150224	1513220032	KAUSHAR ALI	2018-19
23	150588	1513220038	MD HASNAIN REZA	2018-19
24	140627	1413220050	MD WAQUAR BAKHSHI	2018-19
25	150942	1513220041	MONIKA	2018-19
26	150793	1513220044	NOOR ALAM ANSARI	2018-19
27	150882	1513220047	RATNESH KUMAR SINGH	2018-19
28	150637	1513220048	RAUNAK KUMAR	2018-19
29	151298	1513220050	SACHIN KUMAR	2018-19
30	151285	1513220052	SANYUKTA KUMARI	2018-19
31	140629	1413220088	SUMAN CHAUDHARY	2018-19



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Madan Mohan Malaviya University of Technology
Gorakhpur-273010 (U.P.) India // (U.P. State Govt. University)

तकनीकी शिक्षा की तपस्थली

Session : 2019-2021

Gender: Male

Name : MANISH KUMAR

Course : M.Tech

Reg. No. : 2019033208

Dept : EE

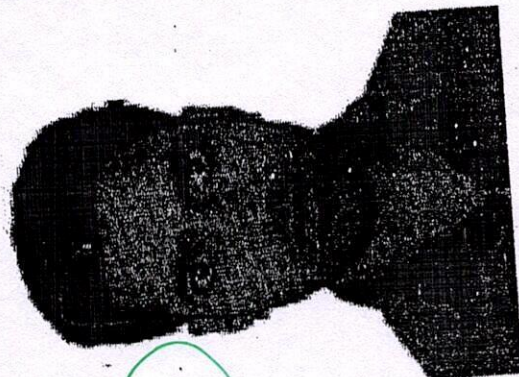
F. Name : Sikendar Yadav

Address : At-Sukhasan, Post- Ghoghasan,
Saharsa, Bihar, 852106

D.O.B. : 03-05-1995

B.G. : B⁺

Emg No.: 9650069795

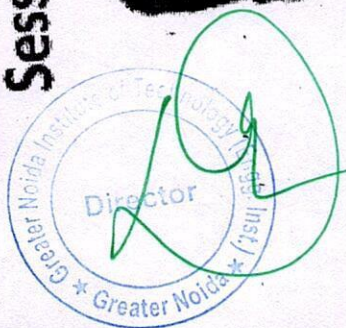


Manish Kumar



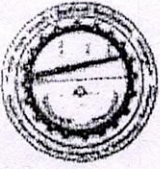
Signature

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24/07/2019



Madan Mohan Malaviya University of Technology Candidate Counseling
Madan Mohan Malaviya University of Technology
 Gorakhpur - 273010 (U.P.) India
 (Formerly Madan Mohan Malaviya Engineering College, Gorakhpur)
 Established by Act no. 22 of 2013 of U.P. Govt.

Tel:8765783798 (O)Fax:0551-2270011
 Website:www.mmmut.ac.in

Seat Allotment Letter for Admission to M.Tech

Dated: 20-07-2019

Ref No: MMMUT/Admission/2019/M.Tech/

To,
 Name : MANISH KUMAR
 Father's Name : sikendar yadav
 Roll No : 6403072
 Rank : C - (GN11),38(WG)
 Alloted Category : OP
 Alloted Branch : Control and Instrumentation



Dear Candidate

Congratulations,

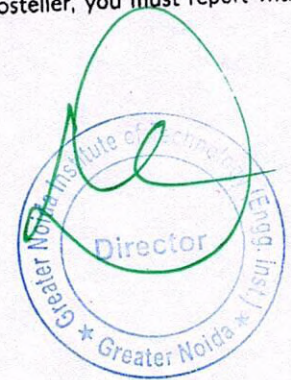
I am pleased to inform you that you have been allotted admission in M.Tech of the university as per above details for the academic session 2019-20. You are advised to report as per reporting schedule available on University website, failing which the admission of the candidate will be cancelled (Date of Reporting - 27-07-2019)

You are required to bring all original documents in respect to your date of birth, category, sub-category, proof of passing qualifying examination, domicile certificate rural weightage certificate (if applicable) and 7 passport size coloured photographs for reporting in the University.

The classes shall commence from the next day of reporting. If you are hosteller, you must report with complete bag and baggage for staying in the University.

Copy of followings for information and necessary action.

1. (Dean (UGSE)), M.M.M.U.T Gorakhpur
2. Register, M.M.M.U.T. Gorakhpur



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Q. 1 – Q. 5 carry one mark each.

Q.1 “Since you have gone off the _____, the _____ sand is likely to damage the car.”

The words that best fill the blanks in the above sentence are

- (A) course, coarse (B) course, course
(C) coarse, course (D) coarse, coarse

Q.2 “A common misconception among writers is that sentence structure mirrors thought; the more _____ the structure, the more complicated the ideas.”

The word that best fills the blank in the above sentence is

- (A) detailed (B) simple (C) clear (D) convoluted

Q.3 The three roots of the equation $f(x) = 0$ are $x = \{-2, 0, 3\}$. What are the three values of x for which $f(x - 3) = 0$?

- (A) $-5, -3, 0$ (B) $-2, 0, 3$
(C) $0, 6, 8$ (D) $1, 3, 6$

Q.4 For what values of k given below is $\frac{(k+2)^2}{k-3}$ an integer?

- (A) 4, 8, 18 (B) 4, 10, 16
(C) 4, 8, 28 (D) 8, 26, 28

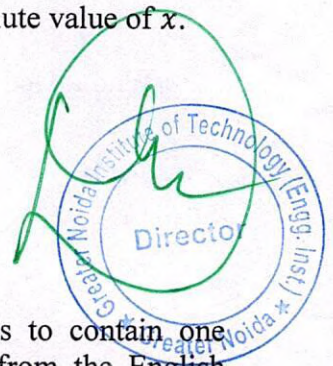
Q.5 Functions $F(a, b)$ and $G(a, b)$ are defined as follows:
 $F(a, b) = (a - b)^2$ and $G(a, b) = |a - b|$, where $|x|$ represents the absolute value of x .
What would be the value of $G(F(1, 3), G(1, 3))$?

- (A) 2 (B) 4 (C) 6 (D) 36

Q. 6 – Q. 10 carry two marks each.

Q.6 An e-mail password must contain three characters. The password has to contain one numeral from 0 to 9, one upper case and one lower case character from the English alphabet. How many distinct passwords are possible?

- (A) 6,760 (B) 13,520 (C) 40,560 (D) 1,05,456



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- Q.7 In a certain code, AMCF is written as EQGJ and NKUF is written as ROYJ. How will DHLP be written in that code?
- (A) RSTN (B) TLPH (C) HLPT (D) XSVR
- Q.8 A class of twelve children has two more boys than girls. A group of three children are randomly picked from this class to accompany the teacher on a field trip. What is the probability that the group accompanying the teacher contains more girls than boys?
- (A) 0 (B) $\frac{325}{864}$ (C) $\frac{525}{864}$ (D) $\frac{5}{12}$

- Q.9 A designer uses marbles of four different colours for his designs. The cost of each marble is the same, irrespective of the colour. The table below shows the percentage of marbles of each colour used in the current design. The cost of each marble increased by 25%. Therefore, the designer decided to reduce equal numbers of marbles of each colour to keep the total cost unchanged. What is the percentage of blue marbles in the new design?

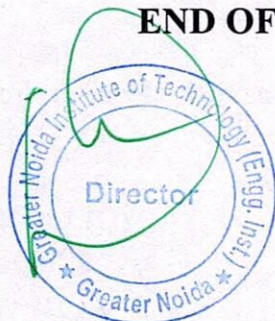
Blue	Black	Red	Yellow
40%	25%	20%	15%

- (A) 35.75 (B) 40.25 (C) 43.75 (D) 46.25
- Q.10 P, Q, R and S crossed a lake in a boat that can hold a maximum of two persons, with only one set of oars. The following additional facts are available.
- The boat held two persons on each of the three forward trips across the lake and one person on each of the two return trips.
 - P is unable to row when someone else is in the boat.
 - Q is unable to row with anyone else except R.
 - Each person rowed for at least one trip.
 - Only one person can row during a trip.

Who rowed twice?

- (A) P (B) Q (C) R (D) S

END OF THE QUESTION PAPER



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Q. 1 – Q. 25 carry one mark each.

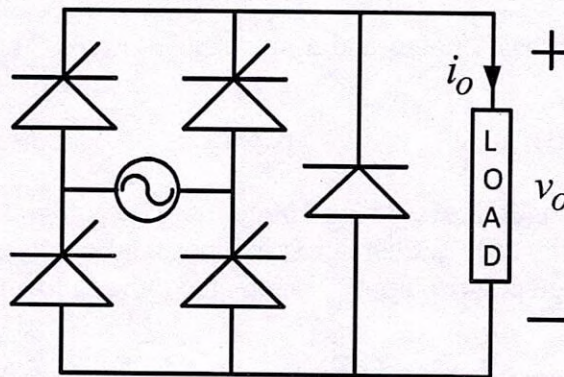
Q.1 A single-phase 100 kVA, 1000 V / 100 V, 50 Hz transformer has a voltage drop of 5% across its series impedance at full load. Of this, 3% is due to resistance. The percentage regulation of the transformer at full load with 0.8 lagging power factor is

- (A) 4.8 (B) 6.8 (C) 8.8 (D) 10.8

Q.2 In a salient pole synchronous motor, the developed reluctance torque attains the maximum value when the load angle in electrical degrees is

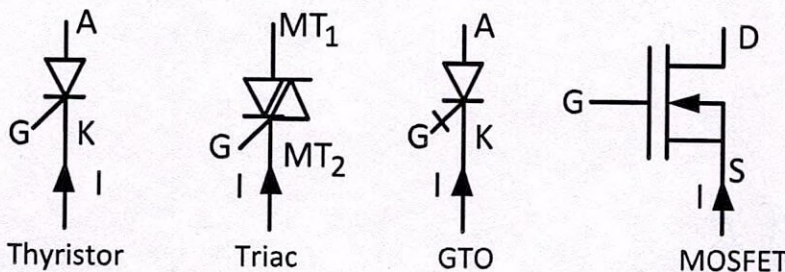
- (A) 0 (B) 45 (C) 60 (D) 90

Q.3 A single phase fully controlled rectifier is supplying a load with an anti-parallel diode as shown in the figure. All switches and diodes are ideal. Which one of the following is true for instantaneous load voltage and current?

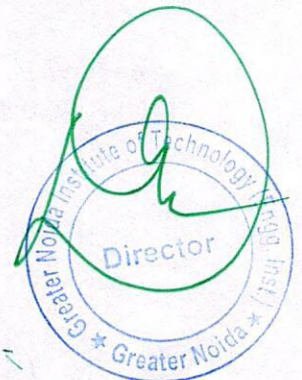


- (A) $v_o \geq 0$ & $i_o < 0$ (B) $v_o < 0$ & $i_o < 0$
 (C) $v_o \geq 0$ & $i_o \geq 0$ (D) $v_o < 0$ & $i_o \geq 0$

Q.4 Four power semiconductor devices are shown in the figure along with their relevant terminals. The device(s) that can carry dc current continuously in the direction shown when gated appropriately is (are)

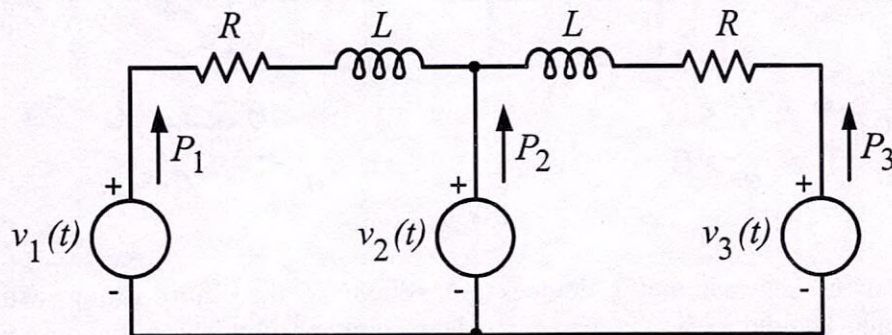


- (A) Triac only
 (B) Triac and MOSFET
 (C) Triac and GTO
 (D) Thyristor and Triac

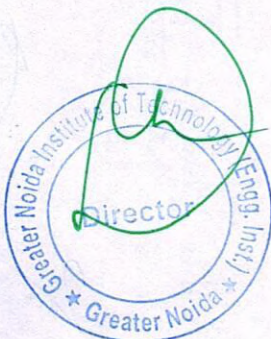


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- Q.5 Two wattmeter method is used for measurement of power in a balanced three-phase load supplied from a balanced three-phase system. If one of the wattmeters reads half of the other (both positive), then the power factor of the load is
 (A) 0.532 (B) 0.632 (C) 0.707 (D) 0.866
- Q.6 Consider a lossy transmission line with V_1 and V_2 as the sending and receiving end voltages, respectively. Z and X are the series impedance and reactance of the line, respectively. The steady-state stability limit for the transmission line will be
 (A) greater than $\left| \frac{V_1 V_2}{X} \right|$ (B) less than $\left| \frac{V_1 V_2}{X} \right|$
 (C) equal to $\left| \frac{V_1 V_2}{X} \right|$ (D) equal to $\left| \frac{V_1 V_2}{Z} \right|$
- Q.7 The graph of a network has 8 nodes and 5 independent loops. The number of branches of the graph is
 (A) 11 (B) 12 (C) 13 (D) 14
- Q.8 In the figure, the voltages are $v_1(t) = 100\cos(\omega t)$, $v_2(t) = 100\cos(\omega t + \pi/18)$ and $v_3(t) = 100\cos(\omega t + \pi/36)$. The circuit is in sinusoidal steady state, and $R \ll \omega L$. P_1 , P_2 and P_3 are the average power outputs. Which one of the following statements is true?



- (A) $P_1 = P_2 = P_3 = 0$ (B) $P_1 < 0, P_2 > 0, P_3 > 0$
 (C) $P_1 < 0, P_2 > 0, P_3 < 0$ (D) $P_1 > 0, P_2 < 0, P_3 > 0$



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- Q.9 Match the transfer functions of the second-order systems with the nature of the systems given below.

Transfer functions

Nature of system

P: $\frac{15}{s^2 + 5s + 15}$

I: Overdamped

Q: $\frac{25}{s^2 + 10s + 25}$

II: Critically damped

R: $\frac{35}{s^2 + 18s + 35}$

III: Underdamped

- (A) P-I, Q-II, R-III
 (B) P-II, Q-I, R-III
 (C) P-III, Q-II, R-I
 (D) P-III, Q-I, R-II

- Q.10 A positive charge of 1 nC is placed at (0, 0, 0.2) where all dimensions are in metres. Consider the x - y plane to be a conducting ground plane. Take $\epsilon_0 = 8.85 \times 10^{-12}$ F/m. The z component of the E field at (0, 0, 0.1) is closest to

- (A) 899.18 V/m (B) -899.18 V/m (C) 999.09 V/m (D) -999.09 V/m

- Q.11 Let f be a real-valued function of a real variable defined as $f(x) = x^2$ for $x \geq 0$, and $f(x) = -x^2$ for $x < 0$. Which one of the following statements is true?

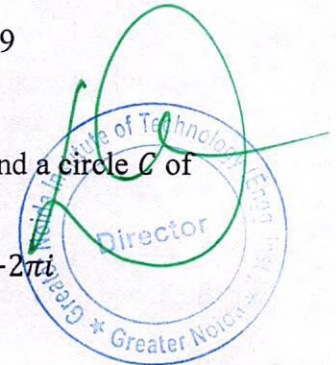
- (A) $f(x)$ is discontinuous at $x = 0$.
 (B) $f(x)$ is continuous but not differentiable at $x = 0$.
 (C) $f(x)$ is differentiable but its first derivative is not continuous at $x = 0$.
 (D) $f(x)$ is differentiable but its first derivative is not differentiable at $x = 0$.

- Q.12 The value of the directional derivative of the function $\Phi(x, y, z) = xy^2 + yz^2 + zx^2$ at the point (2, -1, 1) in the direction of the vector $\mathbf{p} = \mathbf{i} + 2\mathbf{j} + 2\mathbf{k}$ is

- (A) 1 (B) 0.95 (C) 0.93 (D) 0.9

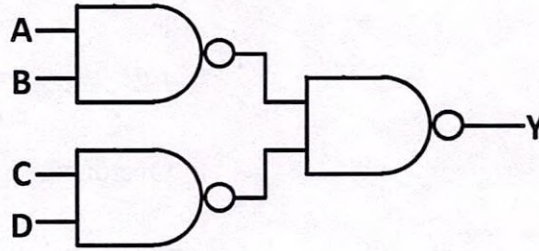
- Q.13 The value of the integral $\oint_C \frac{z+1}{z^2-4} dz$ in counter clockwise direction around a circle C of radius 1 with center at the point $z = -2$ is

- (A) $\frac{\pi i}{2}$ (B) $2\pi i$ (C) $-\frac{\pi i}{2}$ (D) $-2\pi i$



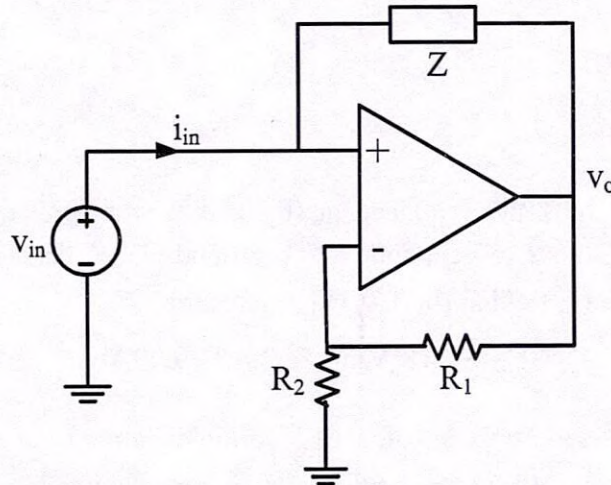
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Q.14 In the logic circuit shown in the figure, Y is given by



- (A) $Y = ABCD$ (B) $Y = (A + B)(C + D)$
 (C) $Y = A + B + C + D$ (D) $Y = AB + CD$

Q.15 The op-amp shown in the figure is ideal. The input impedance $\frac{v_{in}}{i_{in}}$ is given by



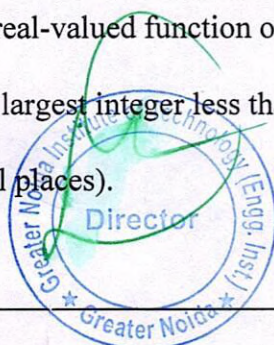
- (A) $Z \frac{R_1}{R_2}$ (B) $-Z \frac{R_2}{R_1}$ (C) Z (D) $-Z \frac{R_1}{R_1 + R_2}$

Q.16 A continuous-time input signal $x(t)$ is an eigenfunction of an LTI system, if the output is

- (A) $k x(t)$, where k is an eigenvalue
 (B) $k e^{j\omega t} x(t)$, where k is an eigenvalue and $e^{j\omega t}$ is a complex exponential signal
 (C) $x(t) e^{j\omega t}$, where $e^{j\omega t}$ is a complex exponential signal
 (D) $k H(\omega)$, where k is an eigenvalue and $H(\omega)$ is a frequency response of the system

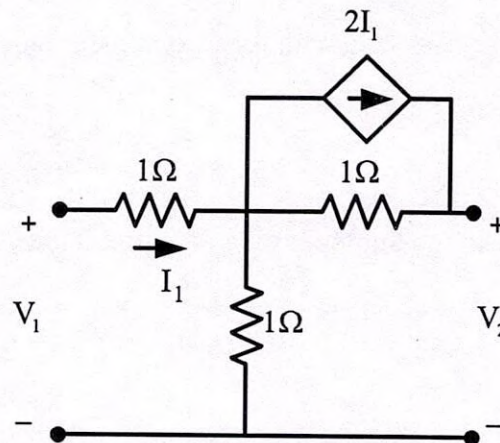
Q.17 Consider a non-singular 2×2 square matrix \mathbf{A} . If $\text{trace}(\mathbf{A}) = 4$ and $\text{trace}(\mathbf{A}^2) = 5$, the determinant of the matrix \mathbf{A} is _____ (up to 1 decimal place).

Q.18 Let f be a real-valued function of a real variable defined as $f(x) = x - [x]$, where $[x]$ denotes the largest integer less than or equal to x . The value of $\int_{0.25}^{1.25} f(x) dx$ is _____ (up to 2 decimal places).



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Q.19 In the two-port network shown, the h_{11} parameter (where, $h_{11} = \frac{V_1}{I_1}$, when $V_2 = 0$) in ohms is _____ (up to 2 decimal places).

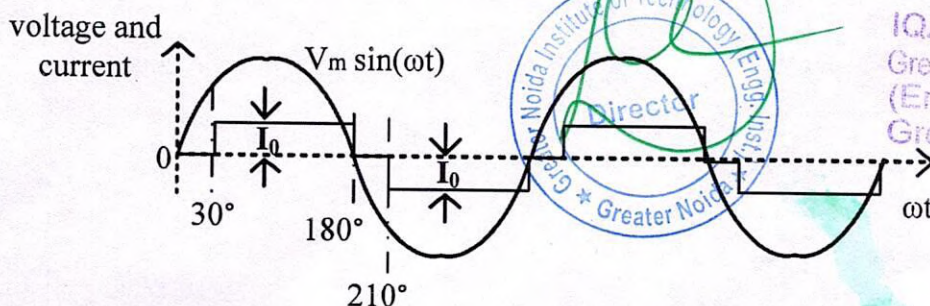


Q.20 The series impedance matrix of a short three-phase transmission line in phase coordinates is $\begin{bmatrix} Z_s & Z_m & Z_m \\ Z_m & Z_s & Z_m \\ Z_m & Z_m & Z_s \end{bmatrix}$. If the positive sequence impedance is $(1 + j10) \Omega$, and the zero sequence is $(4 + j31) \Omega$, then the imaginary part of Z_m (in Ω) is _____ (up to 2 decimal places).

Q.21 The positive, negative and zero sequence impedances of a 125 MVA, three-phase, 15.5 kV, star-grounded, 50 Hz generator are $j0.1$ pu, $j0.05$ pu and $j0.01$ pu respectively on the machine rating base. The machine is unloaded and working at the rated terminal voltage. If the grounding impedance of the generator is $j0.01$ pu, then the magnitude of fault current for a b -phase to ground fault (in kA) is _____ (up to 2 decimal places).

Q.22 A 1000×1000 bus admittance matrix for an electric power system has 8000 non-zero elements. The minimum number of branches (transmission lines and transformers) in this system are _____ (up to 2 decimal places).

Q.23 The waveform of the current drawn by a semi-converter from a sinusoidal AC voltage source is shown in the figure. If $I_0 = 20$ A, the rms value of fundamental component of the current is _____ A (up to 2 decimal places).



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- Q.24 A separately excited dc motor has an armature resistance $R_a = 0.05 \Omega$. The field excitation is kept constant. At an armature voltage of 100 V, the motor produces a torque of 500 Nm at zero speed. Neglecting all mechanical losses, the no-load speed of the motor (in radian/s) for an armature voltage of 150 V is _____ (up to 2 decimal places).
- Q.25 Consider a unity feedback system with forward transfer function given by

$$G(s) = \frac{1}{(s+1)(s+2)}$$

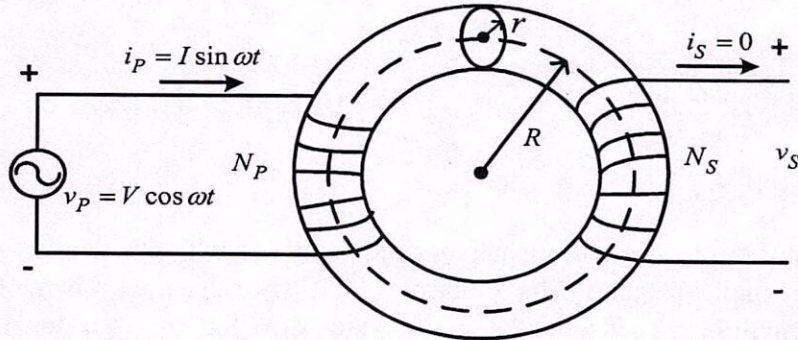
The steady-state error in the output of the system for a unit-step input is _____ (up to 2 decimal places).



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Q. 26 – Q. 55 carry two marks each.

Q.26 A transformer with toroidal core of permeability μ is shown in the figure. Assuming uniform flux density across the circular core cross-section of radius $r \ll R$, and neglecting any leakage flux, the best estimate for the mean radius R is



- (A) $\frac{\mu V r^2 N_P^2 \omega}{I}$ (B) $\frac{\mu I r^2 N_P N_S \omega}{V}$ (C) $\frac{\mu V r^2 N_P^2 \omega}{2I}$ (D) $\frac{\mu I r^2 N_P^2 \omega}{2V}$

Q.27 A 0-1 Ampere moving iron ammeter has an internal resistance of 50 mΩ and inductance of 0.1 mH. A shunt coil is connected to extend its range to 0-10 Ampere for all operating frequencies. The time constant in milliseconds and resistance in mΩ of the shunt coil respectively are

- (A) 2, 5.55 (B) 2, 1 (C) 2.18, 0.55 (D) 11.1, 2

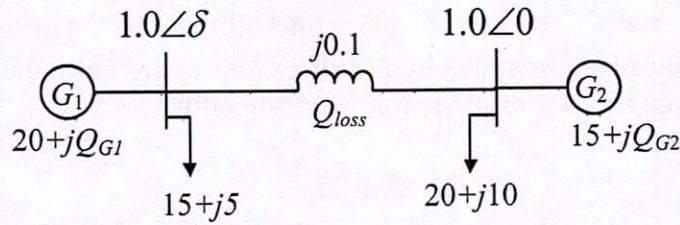
Q.28 The positive, negative and zero sequence impedances of a three phase generator are Z_1 , Z_2 and Z_0 respectively. For a line-to-line fault with fault impedance Z_f , the fault current is $I_{f1} = k I_f$, where I_f is the fault current with zero fault impedance. The relation between Z_f and k is

- (A) $Z_f = \frac{(Z_1 + Z_2)(1 - k)}{k}$ (B) $Z_f = \frac{(Z_1 + Z_2)(1 + k)}{k}$
 (C) $Z_f = \frac{(Z_1 + Z_2)k}{1 - k}$ (D) $Z_f = \frac{(Z_1 + Z_2)k}{1 + k}$



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Q.29 Consider the two bus power system network with given loads as shown in the figure. All the values shown in the figure are in per unit. The reactive power supplied by generator G_1 and G_2 are Q_{G1} and Q_{G2} respectively. The per unit values of Q_{G1} , Q_{G2} , and line reactive power loss (Q_{loss}) respectively are

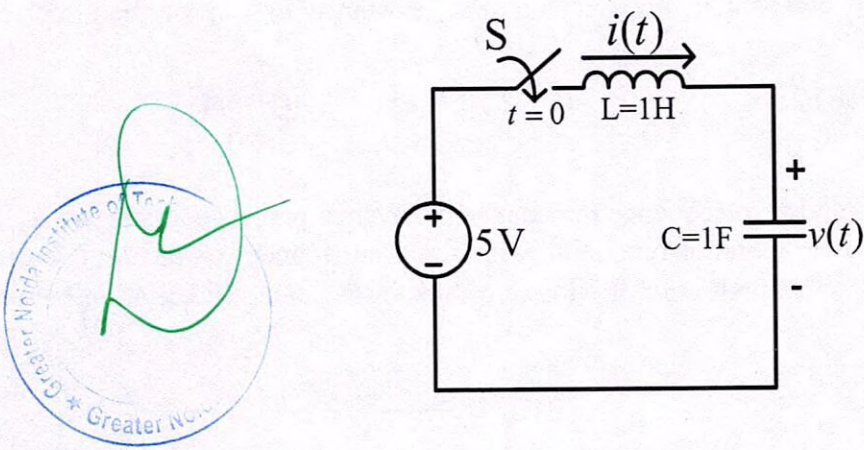


- (A) 5.00, 12.68, 2.68
- (B) 6.34, 10.00, 1.34
- (C) 6.34, 11.34, 2.68
- (D) 5.00, 11.34, 1.34

Q.30 The per-unit power output of a salient-pole generator which is connected to an infinite bus, is given by the expression, $P = 1.4 \sin \delta + 0.15 \sin 2\delta$, where δ is the load angle. Newton-Raphson method is used to calculate the value of δ for $P = 0.8$ pu. If the initial guess is 30° , then its value (in degree) at the end of the first iteration is

- (A) 15°
- (B) 28.48°
- (C) 28.74°
- (D) 31.20°

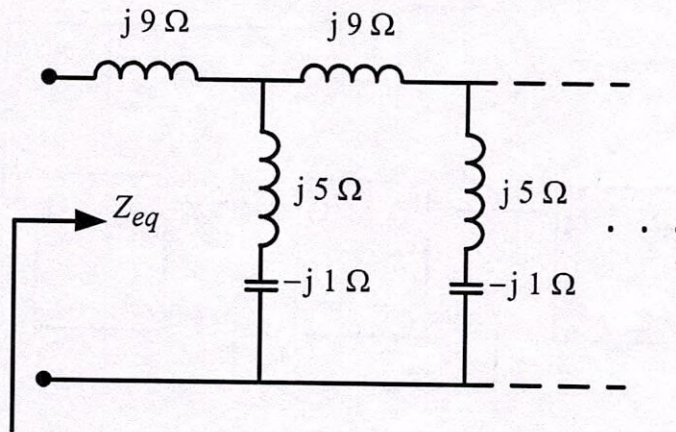
Q.31 A DC voltage source is connected to a series L-C circuit by turning on the switch S at time $t=0$ as shown in the figure. Assume $i(0) = 0, v(0) = 0$. Which one of the following circular loci represents the plot of $i(t)$ versus $v(t)$?



- (A)
- (B)
- (C)
- (D)

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Q.32 The equivalent impedance Z_{eq} for the infinite ladder circuit shown in the figure is



- (A) $j12 \Omega$ (B) $-j12 \Omega$ (C) $j13 \Omega$ (D) 13Ω

Q.33 Consider a system governed by the following equations

$$\frac{dx_1(t)}{dt} = x_2(t) - x_1(t)$$

$$\frac{dx_2(t)}{dt} = x_1(t) - x_2(t)$$

The initial conditions are such that $x_1(0) < x_2(0) < \infty$. Let $x_{1f} = \lim_{t \rightarrow \infty} x_1(t)$ and $x_{2f} = \lim_{t \rightarrow \infty} x_2(t)$. Which one of the following is true?

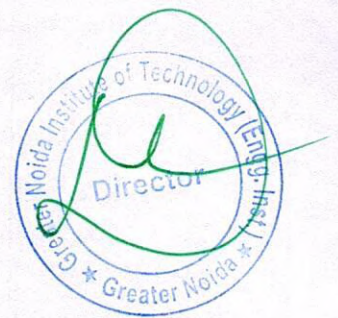
- (A) $x_{1f} < x_{2f} < \infty$ (B) $x_{2f} < x_{1f} < \infty$ (C) $x_{1f} = x_{2f} < \infty$ (D) $x_{1f} = x_{2f} = \infty$

Q.34 The number of roots of the polynomial, $s^7 + s^6 + 7s^5 + 14s^4 + 31s^3 + 73s^2 + 25s + 200$, in the open left half of the complex plane is

- (A) 3 (B) 4 (C) 5 (D) 6

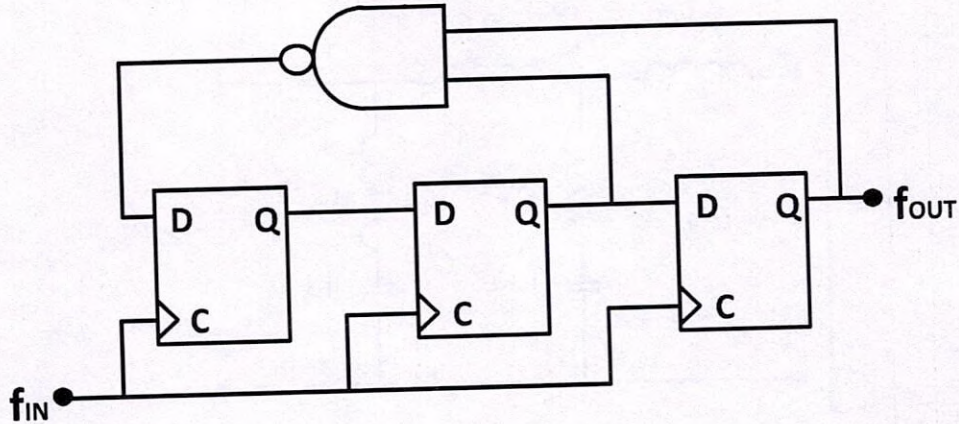
Q.35 If C is a circle $|z| = 4$ and $f(z) = \frac{z^2}{(z^2 - 3z + 2)^2}$, then $\oint_C f(z) dz$ is

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



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Q.36 Which one of the following statements is true about the digital circuit shown in the figure



- (A) It can be used for dividing the input frequency by 3.
 (B) It can be used for dividing the input frequency by 5.
 (C) It can be used for dividing the input frequency by 7.
 (D) It cannot be reliably used as a frequency divider due to disjoint internal cycles.

Q.37 Digital input signals A, B, C with A as the MSB and C as the LSB are used to realize the Boolean function $F = m_0 + m_2 + m_3 + m_5 + m_7$, where m_i denotes the i^{th} minterm. In addition, F has a don't care for m_1 . The simplified expression for F is given by

- (A) $\bar{A}\bar{C} + \bar{B}C + AC$ (B) $\bar{A} + C$
 (C) $\bar{C} + A$ (D) $\bar{A}C + BC + A\bar{C}$

Q.38 Consider the two continuous-time signals defined below:

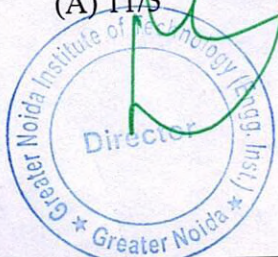
$$x_1(t) = \begin{cases} |t|, & -1 \leq t \leq 1 \\ 0, & \text{otherwise} \end{cases}, \quad x_2(t) = \begin{cases} 1 - |t|, & -1 \leq t \leq 1 \\ 0, & \text{otherwise} \end{cases}$$

These signals are sampled with a sampling period of $T = 0.25$ seconds to obtain discrete-time signals $x_1[n]$ and $x_2[n]$, respectively. Which one of the following statements is true?

- (A) The energy of $x_1[n]$ is greater than the energy of $x_2[n]$.
 (B) The energy of $x_2[n]$ is greater than the energy of $x_1[n]$.
 (C) $x_1[n]$ and $x_2[n]$ have equal energies.
 (D) Neither $x_1[n]$ nor $x_2[n]$ is a finite-energy signal.

Q.39 The signal energy of the continuous-time signal $x(t) = [(t-1)u(t-1)] - [(t-2)u(t-2)] - [(t-3)u(t-3)] + [(t-4)u(t-4)]$ is

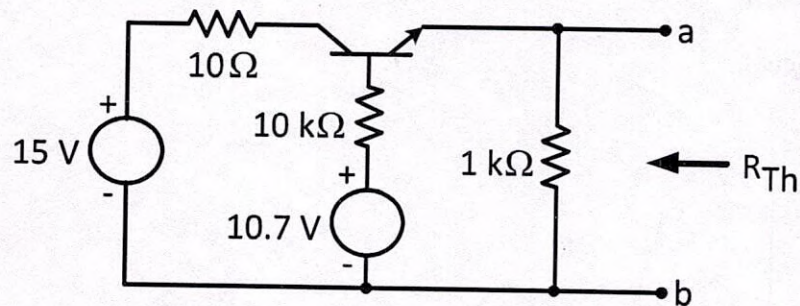
- (A) 11/3 (B) 7/3 (C) 1/3 (D) 5/3



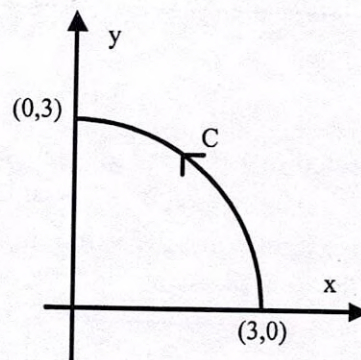
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Q.40 The Fourier transform of a continuous-time signal $x(t)$ is given by $X(\omega) = \frac{1}{(10 + j\omega)^2}$, $-\infty < \omega < \infty$, where $j = \sqrt{-1}$ and ω denotes frequency. Then the value of $|\ln x(t)|$ at $t = 1$ is _____ (up to 1 decimal place). (ln denotes the logarithm to base e)

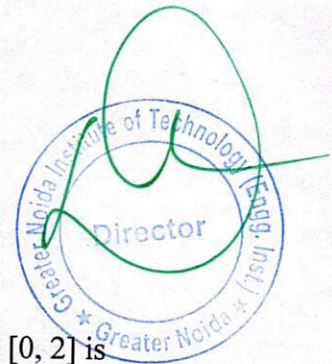
Q.41 In the circuit shown in the figure, the bipolar junction transistor (BJT) has a current gain $\beta = 100$. The base-emitter voltage drop is a constant, $V_{BE} = 0.7 V$. The value of the Thevenin equivalent resistance R_{Th} (in Ω) as shown in the figure is _____ (up to 2 decimal places).



Q.42 As shown in the figure, C is the arc from the point $(3,0)$ to the point $(0,3)$ on the circle $x^2 + y^2 = 9$. The value of the integral $\int_C (y^2 + 2yx)dx + (2xy + x^2)dy$ is _____ (up to 2 decimal places).



Q.43 Let $f(x) = 3x^3 - 7x^2 + 5x + 6$. The maximum value of $f(x)$ over the interval $[0, 2]$ is _____ (up to 1 decimal place).

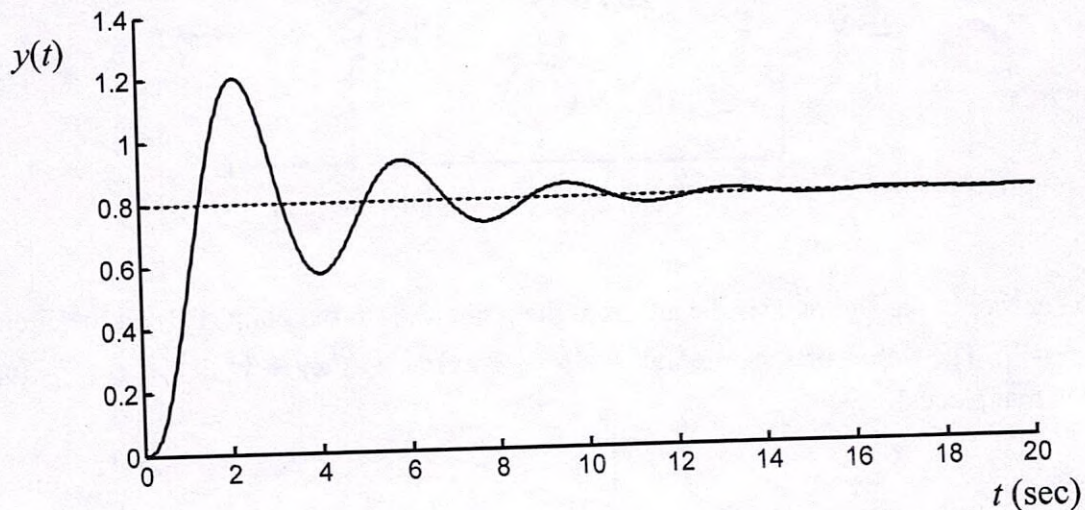


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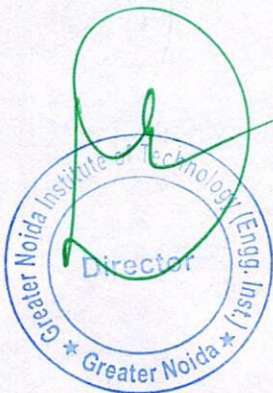
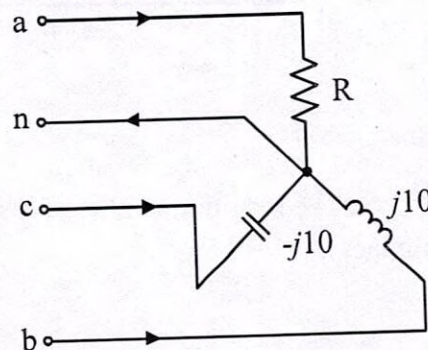
- Q.44 Let $A = \begin{bmatrix} 1 & 0 & -1 \\ -1 & 2 & 0 \\ 0 & 0 & -2 \end{bmatrix}$ and $B = A^3 - A^2 - 4A + 5I$, where I is the 3×3 identity matrix. The determinant of B is _____ (up to 1 decimal place).

- Q.45 The capacitance of an air-filled parallel-plate capacitor is 60 pF. When a dielectric slab whose thickness is half the distance between the plates, is placed on one of the plates covering it entirely, the capacitance becomes 86 pF. Neglecting the fringing effects, the relative permittivity of the dielectric is _____ (up to 2 decimal places).

- Q.46 The unit step response $y(t)$ of a unity feedback system with open loop transfer function $G(s)H(s) = \frac{K}{(s+1)^2(s+2)}$ is shown in the figure. The value of K is _____ (up to 2 decimal places).

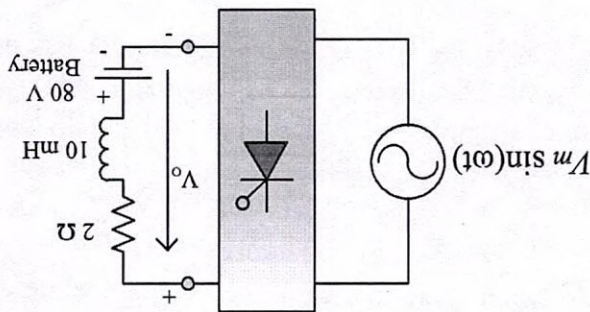


- Q.47 A three-phase load is connected to a three-phase balanced supply as shown in the figure. If $V_{an} = 100 \angle 0^\circ$ V, $V_{bn} = 100 \angle -120^\circ$ V and $V_{cn} = 100 \angle -240^\circ$ V (angles are considered positive in the anti-clockwise direction), the value of R for zero current in the neutral wire is _____ Ω (up to 2 decimal places).

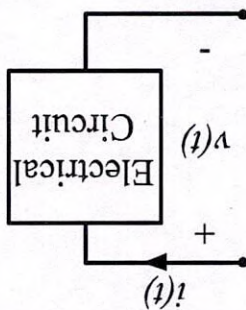


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Q.49 A phase controlled single phase rectifier, supplied by an AC source, feeds power to an R-L-E load as shown in the figure. The rectifier output voltage has an average value given by $V_o = \frac{V_m}{2\pi} (3 + \cos \alpha)$, where $V_m = 80\pi$ volts and α is the firing angle. If the power delivered to the lossless battery is 1600 W , α in degree is _____ (up to 2 decimal places).



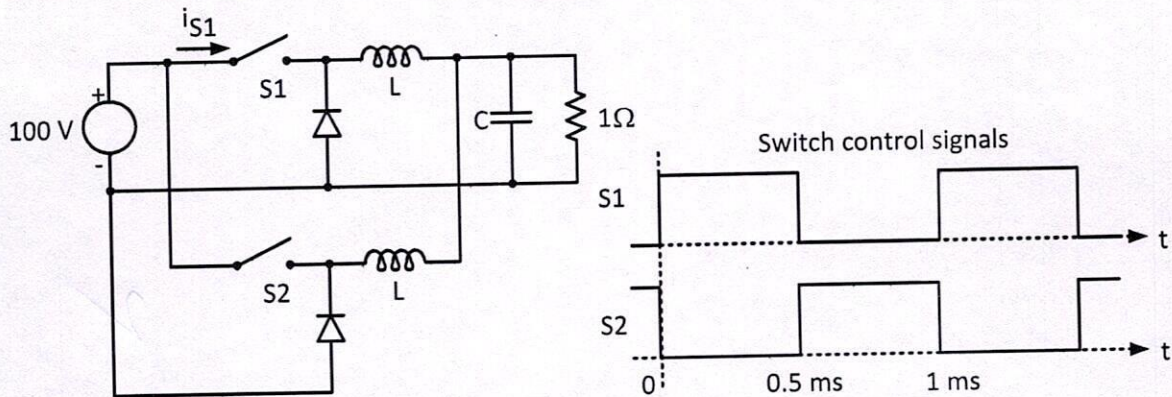
Q.48 The voltage across the circuit in the figure, and the current through it, are given by the following expressions:
where $\omega = 100 \pi$ radians/s. If the average power delivered to the circuit is zero, then the value of X (in Ampere) is _____ (up to 2 decimal places).

$$v(t) = 5 - 10 \cos(\omega t + 60^\circ) \text{ V}$$

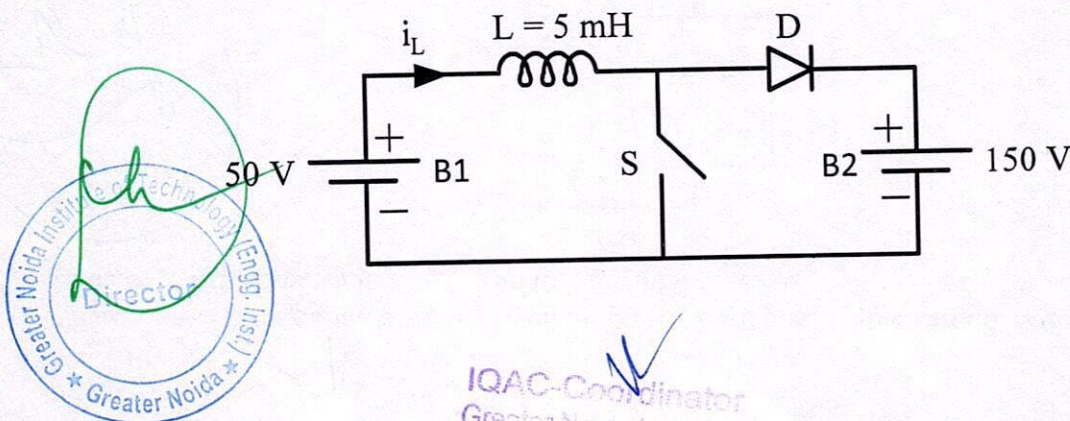
$$i(t) = 5 + X \cos(\omega t) \text{ A}$$

Q.48 The voltage across the circuit in the figure, and the current through it, are given by the following expressions:

The figure shows two buck converters connected in parallel. The common input dc voltage for the converters has a value of 100 V. The converters have inductors of identical value. The load resistance is 1Ω . The capacitor voltage has negligible ripple. Both converters operate in the continuous conduction mode. The switching frequency is 1 kHz, and the switch control signals are as shown. The circuit operates in the steady state. Assuming that the converters share the load equally, the average value of i_{S1} , the current of switch S1 (in Amperes), is _____ (up to 2 decimal places).

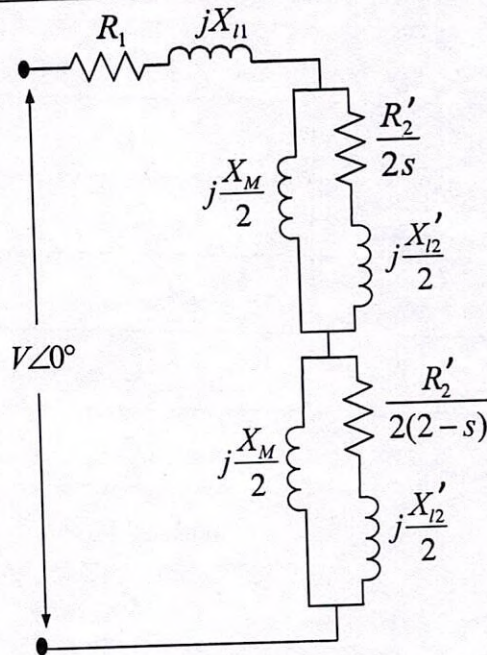


- Q.51 A 3-phase 900 kVA, 3 kV / $\sqrt{3}$ kV (Δ/Y), 50 Hz transformer has primary (high voltage side) resistance per phase of 0.3Ω and secondary (low voltage side) resistance per phase of 0.02Ω . Iron loss of the transformer is 10 kW. The full load % efficiency of the transformer operated at unity power factor is _____ (up to 2 decimal places).
- Q.52 A 200 V DC series motor, when operating from rated voltage while driving a certain load, draws 10 A current and runs at 1000 r.p.m. The total series resistance is 1Ω . The magnetic circuit is assumed to be linear. At the same supply voltage, the load torque is increased by 44%. The speed of the motor in r.p.m. (rounded to the nearest integer) is _____.
- Q.53 A dc to dc converter shown in the figure is charging a battery bank, B2 whose voltage is constant at 150 V. B1 is another battery bank whose voltage is constant at 50 V. The value of the inductor, L is 5 mH and the ideal switch, S is operated with a switching frequency of 5 kHz with a duty ratio of 0.4. Once the circuit has attained steady state and assuming the diode D to be ideal, the power transferred from B1 to B2 (in Watt) is _____ (up to 2 decimal places).

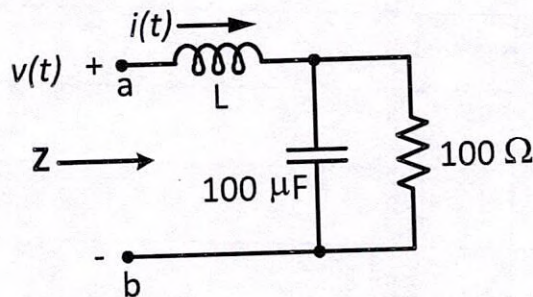


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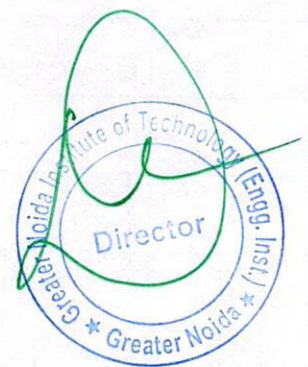
- Q.54 The equivalent circuit of a single phase induction motor is shown in the figure, where the parameters are $R_1 = R_2' = X_{l1} = X_{l2}' = 12 \Omega$, $X_M = 240 \Omega$ and s is the slip. At no-load, the motor speed can be approximated to be the synchronous speed. The no-load lagging power factor of the motor is _____ (up to 3 decimal places).



- Q.55 The voltage $v(t)$ across the terminals a and b as shown in the figure, is a sinusoidal voltage having a frequency $\omega = 100$ radian/s. When the inductor current $i(t)$ is in phase with the voltage $v(t)$, the magnitude of the impedance Z (in Ω) seen between the terminals a and b is _____ (up to 2 decimal places).

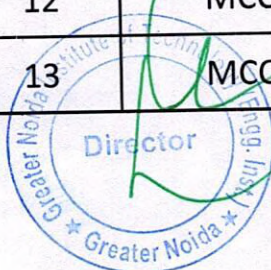


END OF THE QUESTION PAPER



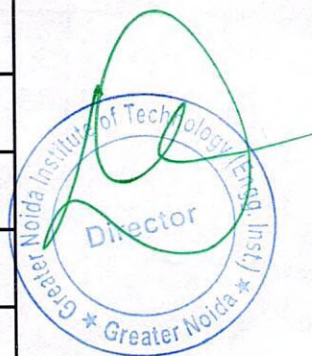
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Q.No.	Type	Section	Key/Range	Marks
1	MCQ	GA	A	1
2	MCQ	GA	D	1
3	MCQ	GA	D	1
4	MCQ	GA	C	1
5	MCQ	GA	A	1
6	MCQ	GA	C	2
7	MCQ	GA	C	2
8	MCQ	GA	Marks to All	2
9	MCQ	GA	C	2
10	MCQ	GA	C	2
1	MCQ	EE	A	1
2	MCQ	EE	B	1
3	MCQ	EE	C	1
4	MCQ	EE	B	1
5	MCQ	EE	D	1
6	MCQ	EE	B	1
7	MCQ	EE	B	1
8	MCQ	EE	C	1
9	MCQ	EE	C	1
10	MCQ	EE	D	1
11	MCQ	EE	D	1
12	MCQ	EE	A	1
13	MCQ	EE	A	1



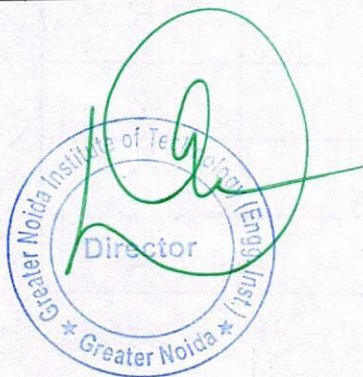
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Q.No.	Type	Section	Key/Range	Marks
14	MCQ	EE	D	1
15	MCQ	EE	B	1
16	MCQ	EE	A	1
17	NAT	EE	5.5 to 5.5	1
18	NAT	EE	0.49 to 0.51	1
19	NAT	EE	0.45 to 0.55	1
20	NAT	EE	7.0 to 7.0	1
21	NAT	EE	73.0 to 74.0	1
22	NAT	EE	3500.0 to 3500.0	1
23	NAT	EE	16.90 to 17.70	1
24	NAT	EE	600.0 to 600.0	1
25	NAT	EE	0.65 to 0.69	1
26	MCQ	EE	D	2
27	MCQ	EE	A	2
28	MCQ	EE	A	2
29	MCQ	EE	C	2
30	MCQ	EE	C	2
31	MCQ	EE	B	2
32	MCQ	EE	A	2
33	MCQ	EE	C	2
34	MCQ	EE	A	2
35	MCQ	EE	B	2
36	MCQ	EE	B	2



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Q.No.	Type	Section	Key/Range	Marks
37	MCQ	EE	B	2
38	MCQ	EE	A	2
39	MCQ	EE	D	2
40	NAT	EE	9.5 to 10.5	2
41	NAT	EE	89.0 to 91.5	2
42	NAT	EE	0.0 to 0.0	2
43	NAT	EE	11.5 to 12.5	2
44	NAT	EE	0.9 to 1.1	2
45	NAT	EE	2.50 to 2.55	2
46	NAT	EE	8.0 to 8.0	2
47	NAT	EE	5.70 to 5.85	2
48	NAT	EE	10.0 to 10.0	2
49	NAT	EE	90.0 to 90.0	2
50	NAT	EE	11.50 to 13.50	2
51	NAT	EE	97.20 to 97.55	2
52	NAT	EE	823 to 827	2
53	NAT	EE	12.0 to 12.0	2
54	NAT	EE	0.104 to 0.112	2
55	NAT	EE	50.0 to 50.0	2




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GENERAL APTITUDE

Q. No. 1 - 5 Carry One Mark Each

1. "By giving him the last _____ of the cake, you will ensure lasting _____ in our house today."

The words that best fill the blanks in the above sentence are

- (A) peas, piece (B) piece, peace (C) peace, piece (D) peace, peas

Answer: (B)

2. "Even though there is a vast scope for its _____, tourism has remained a/an _____ area."

The words that best fill the blanks in the above sentence are

- (A) improvement, neglected (B) rejection, approved
(C) fame, glum (D) interest, disinterested

Answer: (A)

3. What is the value of $1 + \frac{1}{4} + \frac{1}{16} + \frac{1}{64} + \frac{1}{256} + \dots$?

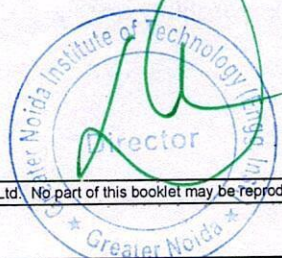
- (A) 2 (B) $\frac{7}{4}$ (C) $\frac{3}{2}$ (D) $\frac{4}{3}$

Answer: (D)

4. If the number 715 ? 423 is divisible by 3 (? Denotes the missing digit in the thousands place), then the smallest whole number in the place of ? is _____.

- (A) 0 (B) 2 (C) 5 (D) 6

Answer: (B)



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5. A 1.5 m tall person is standing at a distance of 3 m from a lamp post. The light from the lamp at the top of the post casts her shadow. The length of the shadow is twice the height. What is the height of the lamp post in meters?
- (A) 1.5 (B) 3 (C) 4.5 (D) 6

Answer: (B)

Q. No. 6- 10 Carry Two Marks Each

6. A coastal region with unparalleled beauty is home to many species of animals. It is dotted with coral reefs and unspoilt white sandy beaches. It has remained inaccessible to tourists due to poor connectivity and lack of accommodation. A company has spotted the opportunity and is planning to develop a luxury resort with helicopter service to the nearest major city airport. Environmentalists are upset that this would lead to the region becoming crowded and polluted like any other major beach resorts.

Which one of the following statements can be logically inferred from the information given in the above paragraph?

- (A) The culture and tradition of the local people will be influenced by the tourists.
(B) The region will become crowded and polluted due to tourism.
(C) The coral reefs are on the decline and could soon vanish.
(D) Helicopter connectivity would lead to an increase in tourists coming to the region.

Answer: (D)

7. A cab was involved in a hit and run accident at night. You are given the following data about the cabs in the city and the accident.

- (i) 85% of cabs in the city are green and the remaining cabs are blue.
(ii) A witness indentified the cab involved in the accident as blue.
(iii) It is known that a witness can correctly identify the cab colour only 80% of the time.

Which of the following is closest to the probability that the accident was caused by a blue cab?

- (A) 12% (B) 15% (C) 41% (D) 80%

Answer: (C)

8. Leila aspires to buy a car Rs. 10,00,000 after 5 years. What is the minimum amount in Rupees that she should deposit now in a bank which offers 10% annual rate of interest, if the interest was compounded annually?

- (A) 5,00,000 (B) 6,21,000 (C) 6,66,667 (D) 7,50,000

Answer: (B)

9. Two alloys A and B contain gold and copper in the ratios of 2:3 and 3:7 by mass, respectively. Equal masses of alloys A and B are melted to make an alloy C. The ratio of gold to copper in alloy C is _____.

- (A) 5:10 (B) 7:13 (C) 6:11 (D) 9:13

Answer: (B)

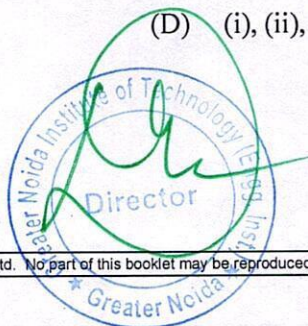
10. The Cricket Board has long recognized John's potential as a leader of the team. However, his on-field temper has always been a matter of concern for them since his junior days. While this aggression has filled stadia with die-hard fans, it has taken a toll on his own batting. Until recently, it appeared that he found it difficult to convert his aggression into big scores. Over the past three seasons though, that picture of John has been replaced by a cerebral, calculative and successful batsman-captain. After many years, it appears that the team has finally found a complete captain.

Which of the following statements can be logically inferred from the above paragraph?

- (i) Even as a junior cricketer, John was considered a good captain.
- (ii) Finding a complete captain is challenge.
- (iii) Fans and the Cricket Board have differing views on what they want in a captain.
- (iv) Over the past three seasons John has accumulated big scores.

- (A) (i), (ii) and (iii) only (B) (iii) and (iv) only
(C) (ii) and (iv) only (D) (i), (ii), (iii) and (iv)

Answer: (C)

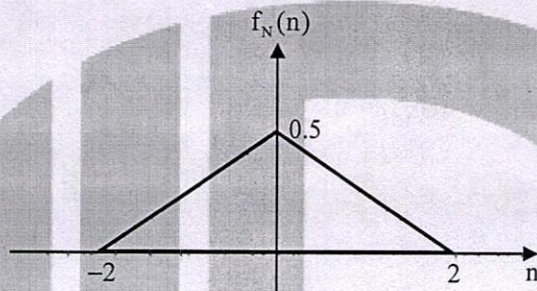


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ELECTRONICS AND COMMUNICATION ENGINEERING

Q. No. 1 – 25 Carry One Mark Each

1. A binary source generates symbols $X \in \{-1, 1\}$ which are transmitted over a noisy channel. The probability of transmitting $X = 1$ is 0.5. Input to the threshold detector is $R = X + N$. The probability density function $f_N(n)$ of the noise N is shown below.

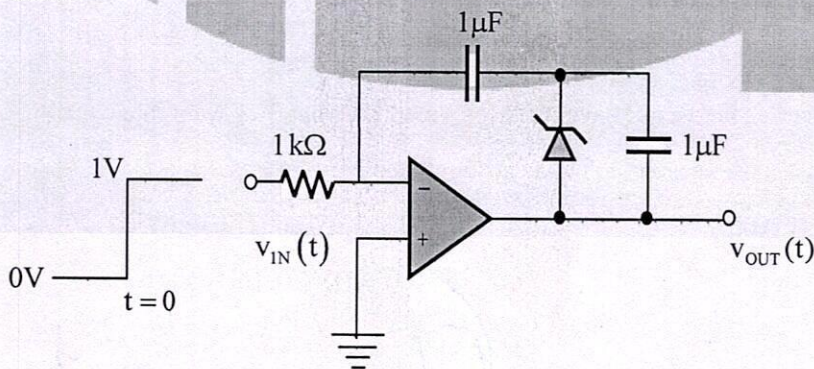


If the detection threshold is zero, then the probability of error (correct to two decimal places) is _____.

Answer: (0.125)

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2. In the circuit shown below, the op-amp is ideal and Zener voltage of the diode is 2.5 volts. At the input, unit step voltage is applied, i.e., $v_{IN}(t) = u(t)$ volts. Also, at $t = 0$, the voltage across each of the capacitors is zero.



The time t , in milliseconds, at which the output voltage v_{OUT} crosses $-10V$ is

- (A) 2.5 (B) 5 (C) 7.5 (D) 10

Answer: (C)

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3. Consider the following amplitude modulated signal:

$$s(t) = \cos(2000\pi t) + 4\cos(2400\pi t) + \cos(2800\pi t)$$

The ratio (accurate to three decimal places) of the power of the message signal to the power of the carrier signal is ____.

Answer: (0.125)

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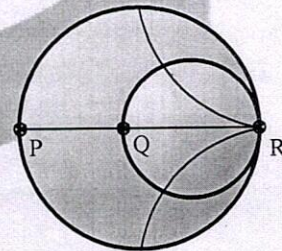
4. A p-n step junction diode with a contact potential of 0.65 V has a depletion width of $1\mu\text{m}$ at equilibrium. The forward voltage (in volts, correct to two decimal places) at which this width reduces to $0.6\mu\text{m}$ is ____.

Answer: (0.416)

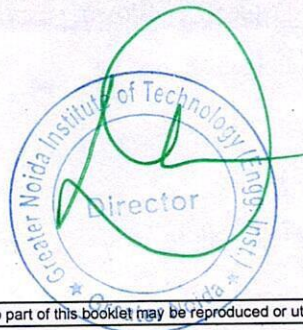
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5. The points P, Q, and R shown on the Smith chart (normalized impedance chart) in the following figure represent:

- (A) P: Open Circuit, Q: Short Circuit, R: Matched Load
 (B) P: Open Circuit, Q: Matched Load, R: Short Circuit
 (C) P: Short Circuit, Q: Matched Load, R: Open Circuit
 (D) P: Short Circuit, Q: Open Circuit, R: Matched Load



Answer: (C)



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6. A lossy transmission line has resistance per unit length $R = 0.05 \Omega/\text{m}$. The line is distortionless and characteristic impedance of 50Ω . The attenuation constant (in Np/m , correct to three decimal places) of the line is _____.

Answer: (0.01)

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7. There are two photolithography systems: one with light source of wavelength $\lambda_1 = 156\text{nm}$ (System 1) and another with light source of wavelength $\lambda_2 = 325\text{nm}$ (System 2). Both photolithography system are otherwise identical. If the minimum feature sizes that can be realized System1 and System2 are $L_{\min 1}$ and $L_{\min 2}$ respectively, the ratio $L_{\min 1} / L_{\min 2}$ (correct to 2 decimal places) is _____.

Answer: (0.48)

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8. Let $x(t)$ be a periodic function with period $T = 10$. The Fourier series coefficients for this series are denoted by a_k , that is

$$x(t) = \sum_{k=-\infty}^{\infty} a_k e^{jk \frac{2\pi}{T} t}$$

The same function $x(t)$ can also be considered as periodic function with period $T' = 40$. Let b_k be the Fourier series coefficients when period is taken as T' . If $\sum_{k=-\infty}^{\infty} |a_k| = 16$, then $\sum_{k=-\infty}^{\infty} |b_k|$ is equal to

- (A) 256 (B) 64 (C) 16 (D) 4

Answer: (C)

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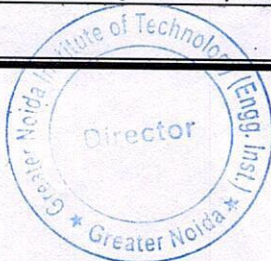
9. Let M be a real 4×4 matrix. Consider the following statements:

S1: M has 4 linearly independent eigenvectors

S2: M has 4 distinct eigen values.

S3: M is non-singular (invertible)

Which one among the following is TRUE?



The circuit is used as amplifier with the input connected between G and S terminals and the output taken between D and S terminals. V_{bias} and V_D are so adjusted that both transistors are in saturation. The transconductance of this combination is defined as $g_m = \frac{\partial i_D}{\partial v_{GS}}$ while the output resistance is $r_o = \frac{\partial v_{DS}}{\partial i_D}$,

where i_D is the current flowing into the drain of M_2 . Let g_{m1} , g_{m2} be transconductances and r_{o1} , r_{o2} be the output resistance of transistor M_1 and M_2 , respectively.

Which of the following statements about estimates for g_m and r_o is correct?

- (A) $g_m \approx g_{m1}g_{m2} \cdot r_{o2}$ and $r_o \approx r_{o1} + r_{o2}$.
- (B) $g_m \approx g_{m1} + g_{m2}$ and $r_o \approx r_{o1} + r_{o2}$.
- (C) $g_m \approx g_{m1}$ and $r_o \approx r_{o1} \cdot g_{m2} \cdot r_{o2}$.
- (D) $g_m \approx g_{m1}$ and $r_o \approx r_{o2}$.

Answer: (C)

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13. Consider matrix $A = \begin{bmatrix} k & 2k \\ k^2 - k & k^2 \end{bmatrix}$ and vector $x = \begin{bmatrix} x_1 \\ x_2 \end{bmatrix}$. The number of distinct real values of k for which the equation $Ax = 0$ has infinitely many solutions is _____.

Answer: (2)

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14. Considered a binary channel code in which each codeword has a fixed length of 5 bits. The Hamming distance between any pair of distance codewords in this code is at least 2. The maximum number of codewords such a code can contain is _____.

Answer: (16)

15. Taylor series expansion of $f(x) = \int_0^x e^{\left(\frac{t^2}{2}\right)} dt$ around $x = 0$ has the form

$$f(x) = a_0 + a_1x + a_2x^2 + \dots$$



The coefficient a_2 (correct to two decimal places) is equal to _____.

Answer: (0)

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16. A good transimpedance amplifier has

- (A) low input impedance and high output impedance
- (B) high input impedance and high output impedance
- (C) high input impedance and low output impedance
- (D) low input impedance and low output impedance

Answer: (D)

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17. Consider $p(s) = s^3 + a_2s^2 + a_1s + a_0$ with all real coefficients. It is known that its derivative $p'(s)$ has no real roots. The number of real roots of $p(s)$ is

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

Answer: (B)

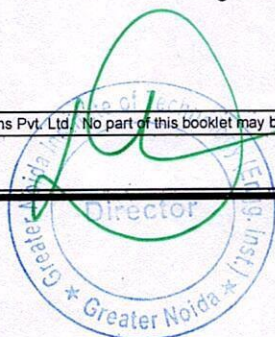
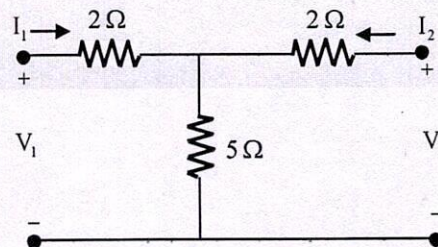
18. Let X_1, X_2, X_3 and X_4 be independent normal random variables with zero mean and unit variance. The probability that X_4 is the smallest among the four is _____.

Answer: (0.25)

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19. The ABCD matrix for a two-port network is defined by:

$$\begin{bmatrix} V_1 \\ I_1 \end{bmatrix} = \begin{bmatrix} A & B \\ C & D \end{bmatrix} \begin{bmatrix} V_2 \\ -I_2 \end{bmatrix}$$



The parameter B for the given two-port network (in ohms, correct to two decimal places) is _____.

Answer: (4.8)

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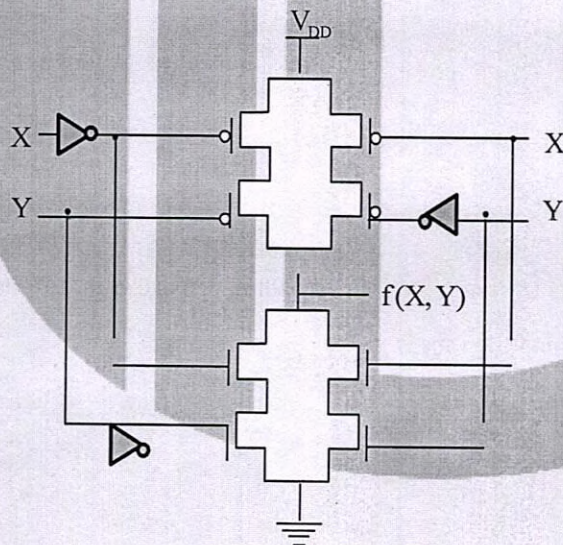
20. In a p-n junction diode at equilibrium, which one of the following statements is NOT TRUE?

- (A) The hole and electron diffusion current components are in the same direction.
- (B) The hole and electron drift current components are in the same direction.
- (C) ON an average, holes and electrons drift in opposite direction.
- (D) ON an average, electrons drift and diffuse in the same direction.

Answer: (D)

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21. The logic function $f(X,Y)$ realized by the given circuit is



(A) NOR

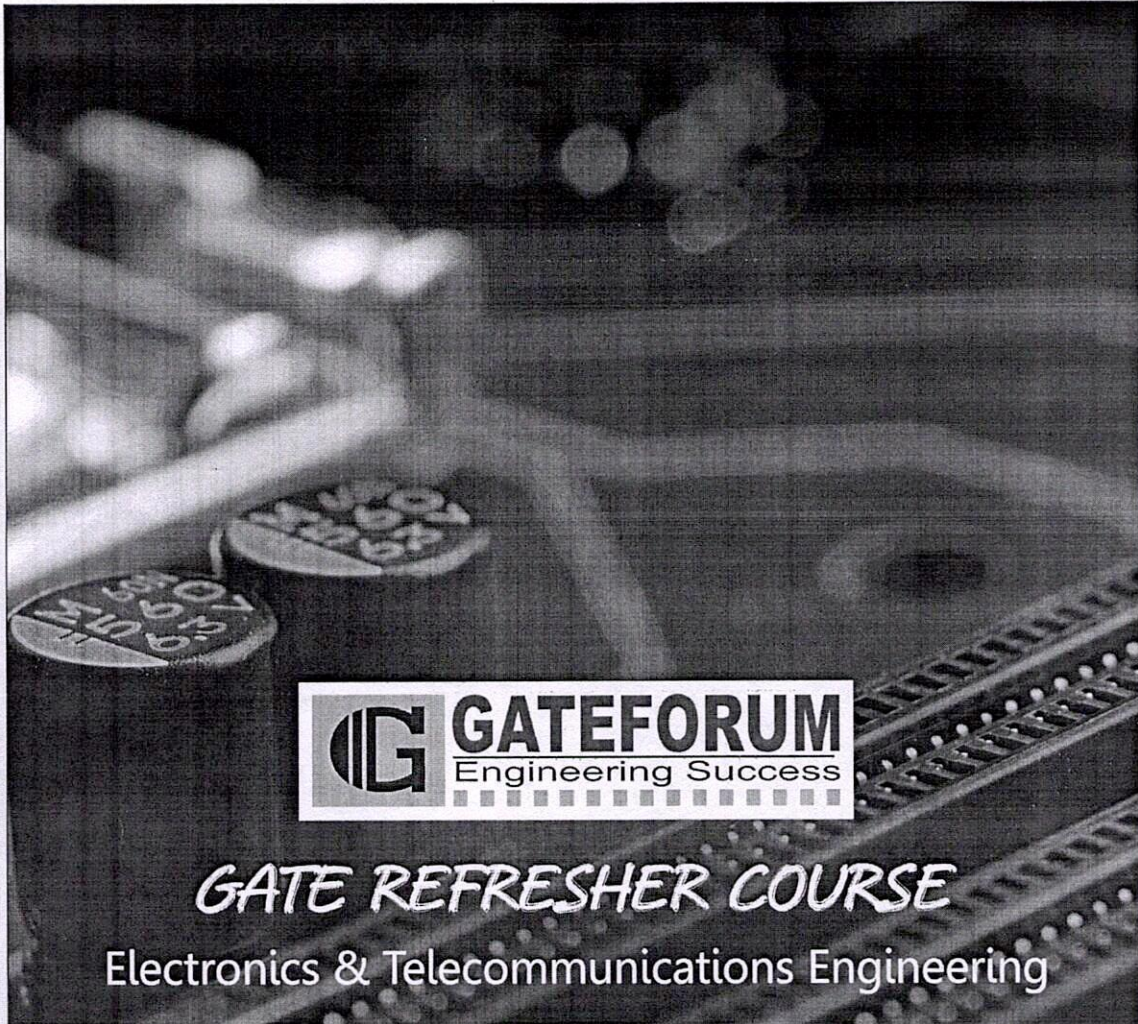
(B) AND

(C) NAND

(D) XOR

Answer: (D)

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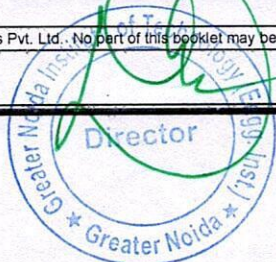
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22. The Nyquist stability criterion and the Routh criterion both are powerful analysis tools for determining the stability of feedback controllers. Identify which of the following statements is FALSE:
- (A) Both the criteria provide information relative to the stable gain range of the system.
 - (B) The general shape of the Nyquist plot is readily obtained from the Bode magnitude plot for all minimum-phase systems.
 - (C) The Routh criterion is not applicable in the condition of transport lag, which can be readily handled by the Nyquist criterion.
 - (D) The closed-loop frequency response for a unity feedback system cannot be obtained from the Nyquist plot.

Answer: (D)

23. A function $F(A, B, C)$ defined by three Boolean variables A, B and C when expressed as sum of products is given by

$$F = \bar{A}\bar{B}\bar{C} + \bar{A}B\bar{C} + A\bar{B}\bar{C}$$

Where, \bar{A}, \bar{B} , and \bar{C} and the complements of the respective variables. The product of sums (POS) form of the function F is

- (A) $F = (A+B+C).(A+\bar{B}+C).(\bar{A}+B+C)$
- (B) $F(\bar{A}+\bar{B}+\bar{C}).(\bar{A}+B+\bar{C}).(A+\bar{B}+\bar{C})$
- (C) $F = (A+B+\bar{C}).(A+\bar{B}+\bar{C}).(\bar{A}+B+\bar{C}).(\bar{A}+\bar{B}+C).(\bar{A}+\bar{B}+\bar{C})$
- (D) $f = (\bar{A}+\bar{B}+C).(\bar{A}+B+C).(A+\bar{B}+C).(A+B+\bar{C}).(A+B+C)$

Answer: (C)

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24. Let the input be u and the output be y of a system, and the other parameters are real constants. Identify which among the following systems is not a linear system:

(A) $\frac{d^3y}{dt^3} + a_1 \frac{d^2y}{dt^2} + a_2 \frac{dy}{dt} + a_3y = b_3u + b_2 \frac{du}{dt} + b_1 \frac{d^2u}{dt^2}$ (with initial rest conditions)

(B) $y(t) = \int_0^t a^{\alpha(t-\tau)} \beta u(\tau) d\tau$

(C) $y = au + b, b \neq 0$

(D) $y = au$

Answer: (C)

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25. Let $f(x,y) = \frac{ax^2 + by^2}{xy}$, where a and b are constants. If $\frac{\partial f}{\partial x} = \frac{\partial f}{\partial y}$ at $x = 1$ and $y = 2$, then the relation between a and b is

(A) $a = \frac{b}{4}$

(B) $a = \frac{b}{2}$

(C) $a = 2b$

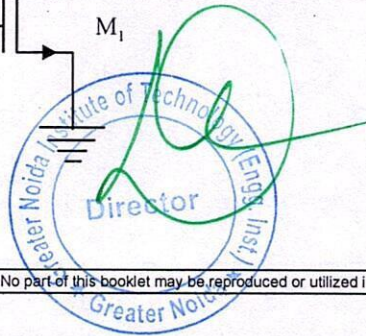
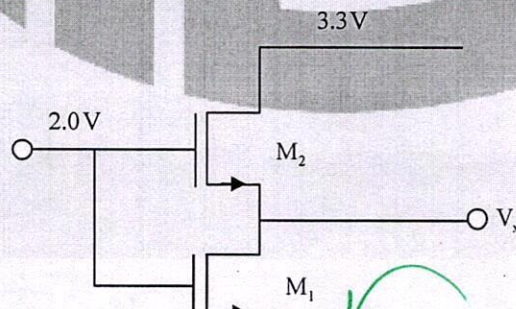
(D) $a = 4b$

Answer: (D)

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Q. No. 26 to 55 Carry Two Marks Each

26. In the circuit shown below, the (W/L) value for M_2 is twice that for M_1 . The two nMOS transistors are otherwise identical. The threshold voltage V_T for both transistors is 1.0 V.



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Note that V_{GS} for M_2 must be > 1.0 V.

Current through the nMOS transistors can be modeled as

$$I_{DS} = \mu C_{ox} \left(\frac{W}{L} \right) \left((V_{GS} - V_T) V_{DS} - \frac{1}{2} V_{DS}^2 \right) \text{ for } V_{DS} \leq V_{GS} - V_T$$

$$I_{DS} = \mu C_{ox} \left(\frac{W}{L} \right) (V_{GS} - V_T)^2 / 2 \text{ for } V_{DS} \geq V_{GS} - V_T$$

The voltage (in volts, accurate to two decimal places) at V_x is _____.

Answer: (0.4266)

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27. A junction is made between p⁻ Si with doping density $N_{A1} = 10^{15} \text{ cm}^{-3}$ and p Si with doping density $N_{A2} = 10^{17} \text{ cm}^{-3}$.

Given: Boltzmann constant $k = 1.38 \times 10^{-23} \text{ J.K}^{-1}$, electronic charge $q = 1.6 \times 10^{-19} \text{ C}$.

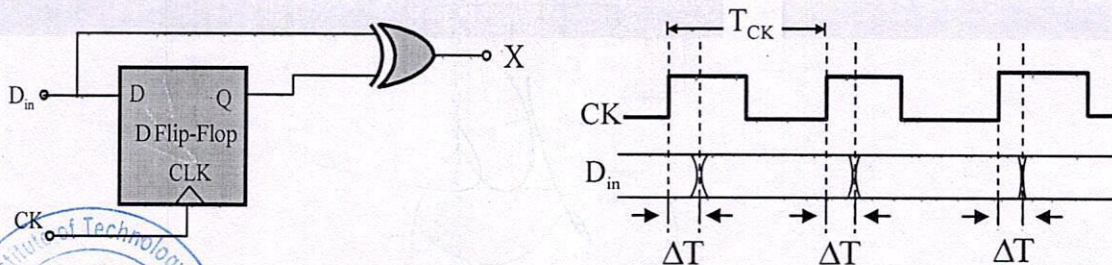
Assume 100% acceptor ionization.

At room temperature ($T = 300 \text{ K}$), the magnitude of the built-in potential (in volts, correct to two decimal places) across this junction will be _____.

Answer: (0.1192)

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28. In the circuit shown below, a positive edge-triggered D Flip-Flop is used for sampling input data D_{in} using clock CK. The XOR gate output 3.3 volts for logic HIGH and 0 volts for logic LOW levels. The data bit and clock periods are equal and the value of $\Delta T / T_{CK} = 0.15$, where the parameters ΔT and T_{CK} are shown in the figure. Assume that the Flip-Flop and the XOR gate are ideal.

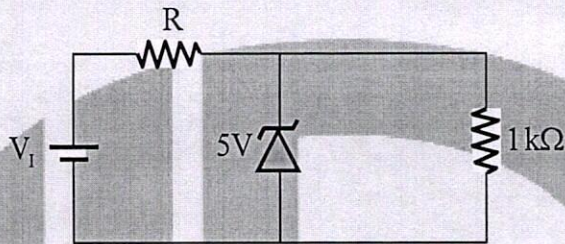


If the probability of input data bit (D_{in}) transition in each clock period is 0.3, the average value (in volts, accurate to two decimal places) of the voltage at node X, is _____.

Answer: (0.8415)

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29. The circuit shown in the figure is used to provide regulated voltage (5V) across the $1k\Omega$ resistor.



Assume that the Zener diode has a constant reverse breakdown voltage for a current range, starting from a minimum required Zener current, $I_{Z(min)} = 2mA$ to its maximum allowable current.

The input voltage V_1 may vary by 5% from its nominal value of 6V. The resistance of the diode in the breakdown region is negligible.

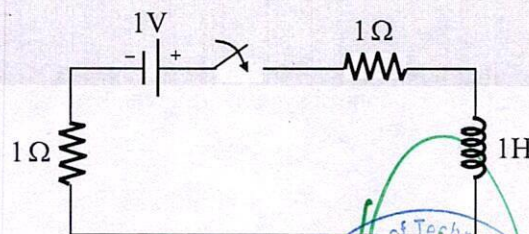
The value of R and the minimum required power dissipation rating of the diode, respectively, are

- | | |
|---------------------------|---------------------------|
| (A) 186Ω and 10 mW | (B) 100Ω and 40 mW |
| (C) 100Ω and 10mW | (D) 186Ω and 40mW |

Answer: (B)

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30. For the circuit given in the figure, the magnitude of the loop current (in amperes, correct to three decimal places) 0.5 second after closing the switch is _____.



Answer: (0.316)

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31. Consider a white Gaussian noise process $N(t)$ with two-sided power spectral density $S_N(f) = 0.5$ W/Hz as input to a filter with impulse response $0.5 e^{-t^2/2}$ (where t is in seconds) resulting in output $Y(t)$. The power in $Y(t)$ in watts is
- (A) 0.11 (B) 0.22 (C) 0.33 (D) 0.44

Answer: (B)

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32. The position of a particle $y(t)$ is described by the differential equation:

$$\frac{d^2y}{dt^2} = -\frac{dy}{dt} - \frac{5y}{4}$$

The initial conditions are $y(0) = 1$ and $\left. \frac{dy}{dt} \right|_{t=0} = 0$.

The position (accurate to two decimal places) of the particle at $t = \pi$ is _____.

Answer: (-0.21)

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33. A random variable X takes value -0.5 and 0.5 with probabilities $\frac{1}{4}$ and $\frac{3}{4}$, respectively. The noisy observation of X is $Y = X + Z$, where Z has uniform probability density over the interval $(-1, 1)$. X and Z are independent. If the MAP rule based detector outputs \hat{X} as

$$\hat{X} = \begin{cases} -0.5, & Y < \alpha \\ 0.5, & Y \geq \alpha, \end{cases}$$

Then the value of α (accurate to two decimal places) is _____.

Answer: (-0.5)

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34. The state equation and the output equation of a control system are given below:

$$\dot{x} = \begin{bmatrix} -4 & -1.5 \\ 4 & 0 \end{bmatrix} x + \begin{bmatrix} 2 \\ 0 \end{bmatrix} u,$$

$$y = [1.5 \quad 0.625] x.$$



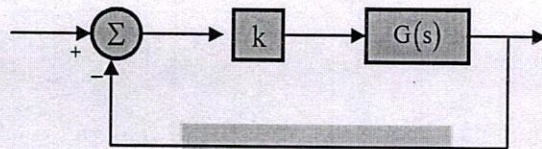
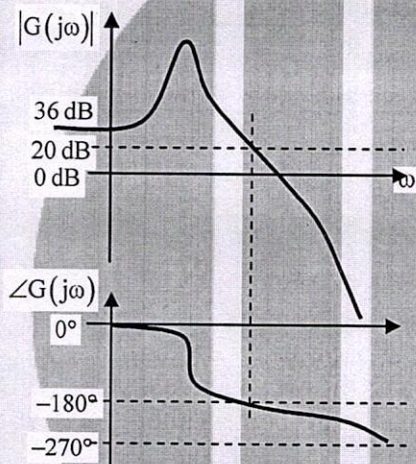
The transfer function representation of the system is

- (A) $\frac{3s+5}{s^2+4s+6}$ (B) $\frac{3s-1.875}{s^2+4s+6}$ (C) $\frac{4s+1.5}{s^2+4s+6}$ (D) $\frac{6s+5}{s^2+4s+6}$

Answer: (A)

35. The figure below shows the Bode magnitude and phase plots of a stable transfer function

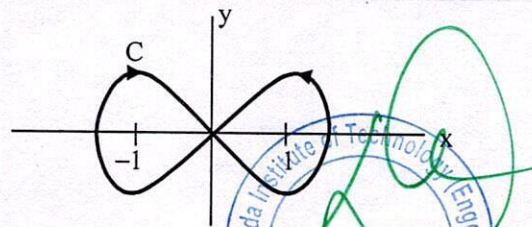
$$G(s) = \frac{n_0}{s^3 + d_2s^2 + d_1s + d_0}$$



Consider the negative unity feedback configuration with gain k in the feedforward path. The closed loop is stable for $k < k_0$. The maximum value of k_0 is _____.

Answer: (0.1)

36. The contour C given below is on the complex plane $z = x + jy$, where $j = \sqrt{-1}$.



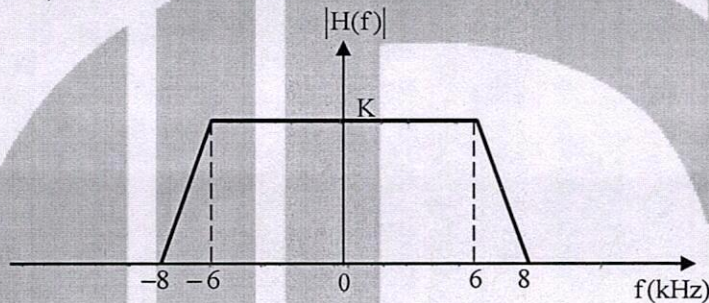
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The value of the integral $\frac{1}{\pi j} \oint_C \frac{dz}{z^2 - 1}$ is _____.

Answer: (2)

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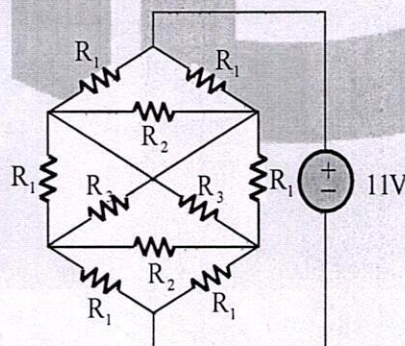
37. A band limited low-pass signal $x(t)$ of bandwidth 5 kHz is sampled at a sampling rate f_s . The signal $x(t)$ is reconstructed using the reconstruction filter $H(f)$ whose magnitude response is shown below:



The minimum sampling rate f_s (in kHz) for perfect reconstruction of $x(t)$ is _____.

Answer: (13)

38. Consider the network shown below with $R_1 = 1\Omega$, $R_2 = 2\Omega$ and $R_3 = 3\Omega$. The network is connected to a constant voltage source of 11V.



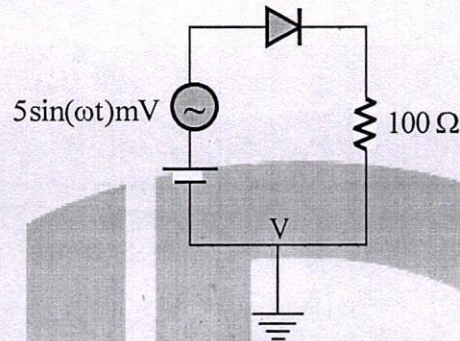
The magnitude of the current (in amperes, accurate to two decimal places) through the source is _____.

Answer: (8)

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39. A dc current of $26 \mu\text{A}$ flows through the circuit shown. The diode in the circuit is forward biased and it has an ideality factor of one. At the quiescent point, the diode has a junction capacitance of 0.5 nF . Its neutral region resistances can be neglected. Assume that the room temperature thermal equivalent voltage is 26 mV .



For $\omega = 2 \times 10^6 \text{ rad/s}$, the amplitude of the small-signal component of diode current (in μA , correct to one decimal place) is _____.

Answer: (6.4)

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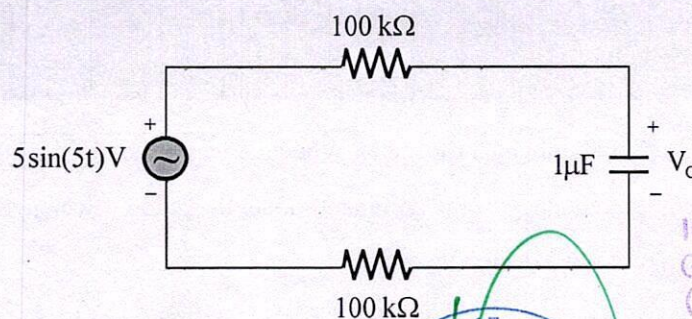
40. Let $X[k] = k+1, 0 \leq k \leq 7$ be 8-point DFT of a sequence $x[n]$,

$$\text{Where } X[k] = \sum_{n=0}^{N-1} x[n] e^{-j2\pi nk/N}$$

The value (correct to two decimal places) of $\sum_{n=0}^3 x[2n]$ is _____.

Answer: (3)

41. For the circuit given in the figure, the voltage V_C (in volts) across the capacitor is



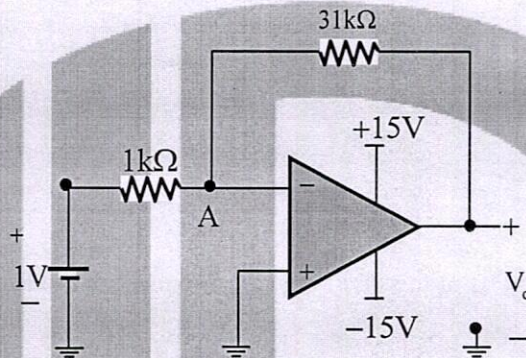
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- (A) $1.25\sqrt{2} \sin(5t - 0.25\pi)$ (B) $1.25\sqrt{2} \sin(5t - 0.125\pi)$
 (C) $2.5\sqrt{2} \sin(5t - 0.25\pi)$ (D) $2.5\sqrt{5} \sin(5t - 0.125\pi)$

Answer: (C)

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42. An op-amp based circuit is implemented as shown below.



In the above circuit, assume the op-amp to be ideal. The voltage (in volts, correct to one decimal place) at node A, connected to the negative input of the op-amp as indicated in the figure is _____.

Answer: (0.5)

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43. A solar cell of area 1.0 cm^2 , operating at 1.0 sun intensity, has a short circuit current of 20 mA, and an open circuit voltage of 0.65 V. Assuming room temperature operation and thermal equivalent voltage of 26 mV, the open circuit voltage (in volts, correct to two decimal places) at 0.2 sun intensity is _____.

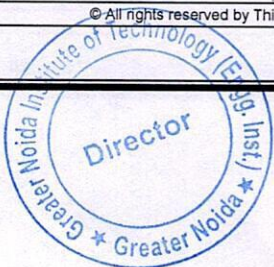
Answer: (0.608)

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44. The cutoff frequency of TE_{01} mode of an air filled rectangular waveguide having inner dimensions $a \text{ cm} \times b \text{ cm}$ ($a > b$) is twice that of the dominant TE_{10} mode. When the waveguide is operated at frequency which is 25% higher than the cutoff frequency of the dominant mode, the guide wavelength is found to be 4 cm. The value of b (in cm, correct to two decimal places) is _____.

Answer: (0.75)

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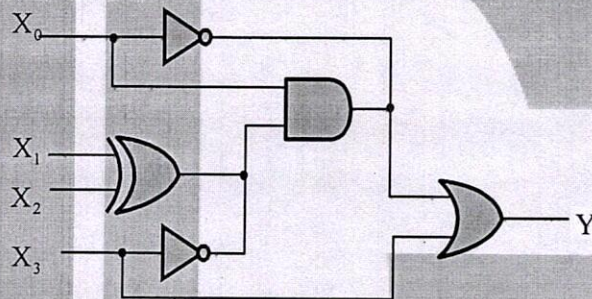
45. The distance (in meters) a wave has to propagate in a medium having a skin depth of 0.1m so that the amplitude of the wave attenuates by 20 dB, is

- (A) 0.12 (B) 0.23 (C) 0.46 (D) 2.3

Answer: (B)

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46. The logic gates shown in the digital circuit below use strong pull-down nMOS transistors for LOW logic levels at the outputs. When the pull-downs are off, high-value resistors set the output logic levels to HIGH (i.e., the pull-ups are weak). Note that some nodes are intentionally shorted to implement “wired logic”.



Such shorted nodes will be HIGH only if the outputs of all the gates whose outputs are shorted are HIGH.

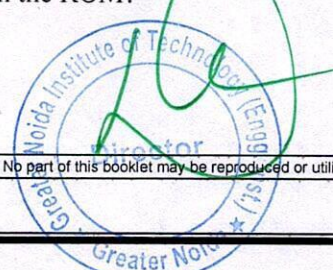
The numbers of distinct values of $X_3X_2X_1X_0$ (out of the 16 possible values) that give $Y = 1$ _____ .

Answer: (8)

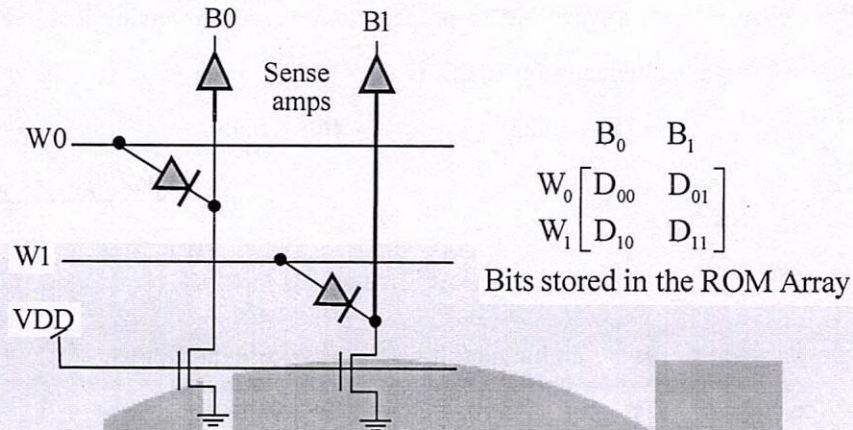
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47. A 2×2 ROM array is built with the help of diodes as shown in the circuit below. Here W_0 and W_1 are signals that select the word lines and B_0 and B_1 are signals that are output of the sense amps based on the stored data corresponding to the bit lines during the read operation. During the read operation, the selected word line goes high and the other word line is in a high impedance state.

As per the implementation shown in the circuit diagram above, what are the bits corresponding to D_{ij} (where $i = 0$ or 1 and $j = 0$ or 1) stored in the ROM?



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(A) $\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$

(B) $\begin{bmatrix} 0 & 1 \\ 1 & 0 \end{bmatrix}$

(C) $\begin{bmatrix} 1 & 0 \\ 1 & 0 \end{bmatrix}$

(D) $\begin{bmatrix} 1 & 1 \\ 0 & 0 \end{bmatrix}$

Answer: (A)

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48. A curve passes through the point $(x = 1, y = 0)$ and satisfies the differential equation $\frac{dy}{dx} = \frac{x^2 + y^2}{2y} + \frac{y}{x}$.

The equation that describes the curve is

(A) $\ln\left(1 + \frac{y^2}{x^2}\right) = x - 1$

(B) $\frac{1}{2} \ln\left(1 + \frac{y^2}{x^2}\right) = x - 1$

(C) $\ln\left(1 + \frac{y}{x}\right) = x - 1$

(D) $\frac{1}{2} \ln\left(1 + \frac{y}{x}\right) = x - 1$

Answer: (A)

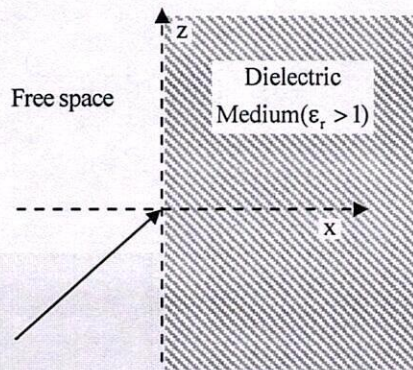
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49. A uniform plane wave traveling in free space and having the electric field

$$\vec{E} = (\sqrt{2}\hat{a}_x - \hat{a}_z) \cos[6\sqrt{3}\pi \times 10^8 t - 2\pi(x + \sqrt{2}z)] \text{ V/m}$$

is incident on a dielectric medium (relative permittivity > 1 , relative permeability = 1) as shown in the figure and there is no reflected wave.





The relative permittivity (correct to two decimal places) of the dielectric medium is _____.

Answer: (2)

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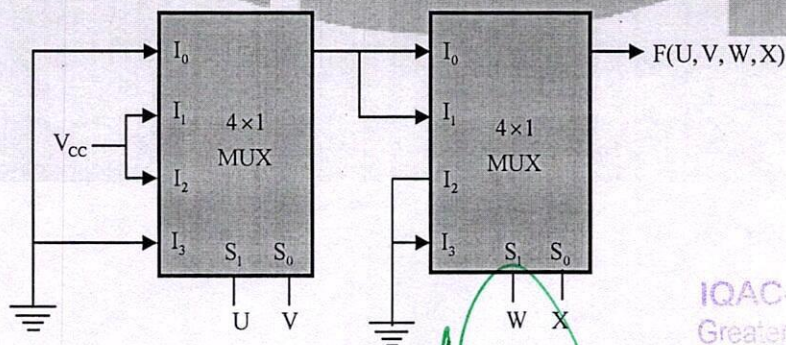
50. For a unity feedback control system with the forward path transfer function

$$G(s) = \frac{K}{s(s+2)}$$

The peak resonant magnitude M_r of the closed-loop frequency response is 2. The corresponding value of the gain K (correct to two decimal places) is _____.

Answer: (14.92)

51. A four-variable Boolean function is realized using 4×1 multiplexers as shown in the figure.



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The minimized expression for $F(U, V, W, X)$ is

- (A) $(UV + \bar{U}\bar{V})\bar{W}$ (B) $(UV + \bar{U}\bar{V})(\bar{W}\bar{X} + \bar{W}X)$
 (C) $(U\bar{V} + \bar{U}V)\bar{W}$ (D) $(U\bar{V} + \bar{U}V)(\bar{W}\bar{X} + \bar{W}X)$

Answer: (C)

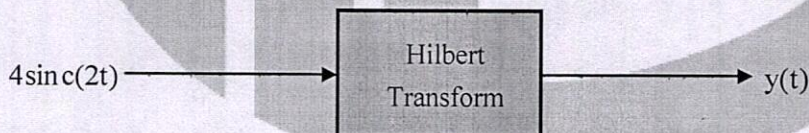
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52. Let $c(t) = A_c \cos(2\pi f_c t)$ and $m(t) = \cos(2\pi f_m t)$. It is given that $f_c \gg 5f_m$. The signal $c(t) + m(t)$ is applied to the input of a non-linear device, whose output $v_o(t)$ is related to the input $v_i(t)$ as $v_o(t) = av_i(t) + bv_i^2(t)$, where a and b are positive constants. The output of the non-linear device is passed through an ideal band-pass filter with center frequency f_c and bandwidth $3f_m$, to produce an amplitude modulated (AM) wave. If it is desired to have the sideband power of the AM wave to the half of the carrier power, then a/b is

- (A) 0.25 (B) 0.5 (C) 1 (D) 2

Answer: (D)

53. The input $4 \text{ sinc}(2t)$ is fed to a Hilbert transformer to obtain $y(t)$, as shown in the figure below:



Here $\text{sinc}(x) = \frac{\sin(\pi x)}{\pi x}$. The value (accurate to two decimal places) of $\int_{-\infty}^{\infty} |y(t)|^2 dt$ is ____.

Answer: (8)

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54. Red (R), Green (G) and Blue (B) Light Emitting Diodes (LEDs) were fabricated using p-n junctions of three different inorganic semiconductors having different band-gaps. The built-in voltage of red, green and blue diodes are V_R , V_G and V_B , respectively. Assume donor and acceptor doping to be the same (N_A and N_D , respectively) in the p and n sides of all the three diodes. Which one of the following relationships about the built-in voltages is TRUE?

(A) $V_R > V_G > V_B$

(B) $V_R < V_G < V_B$

(C) $V_R = V_G = V_B$

(D) $V_R > V_G < V_B$

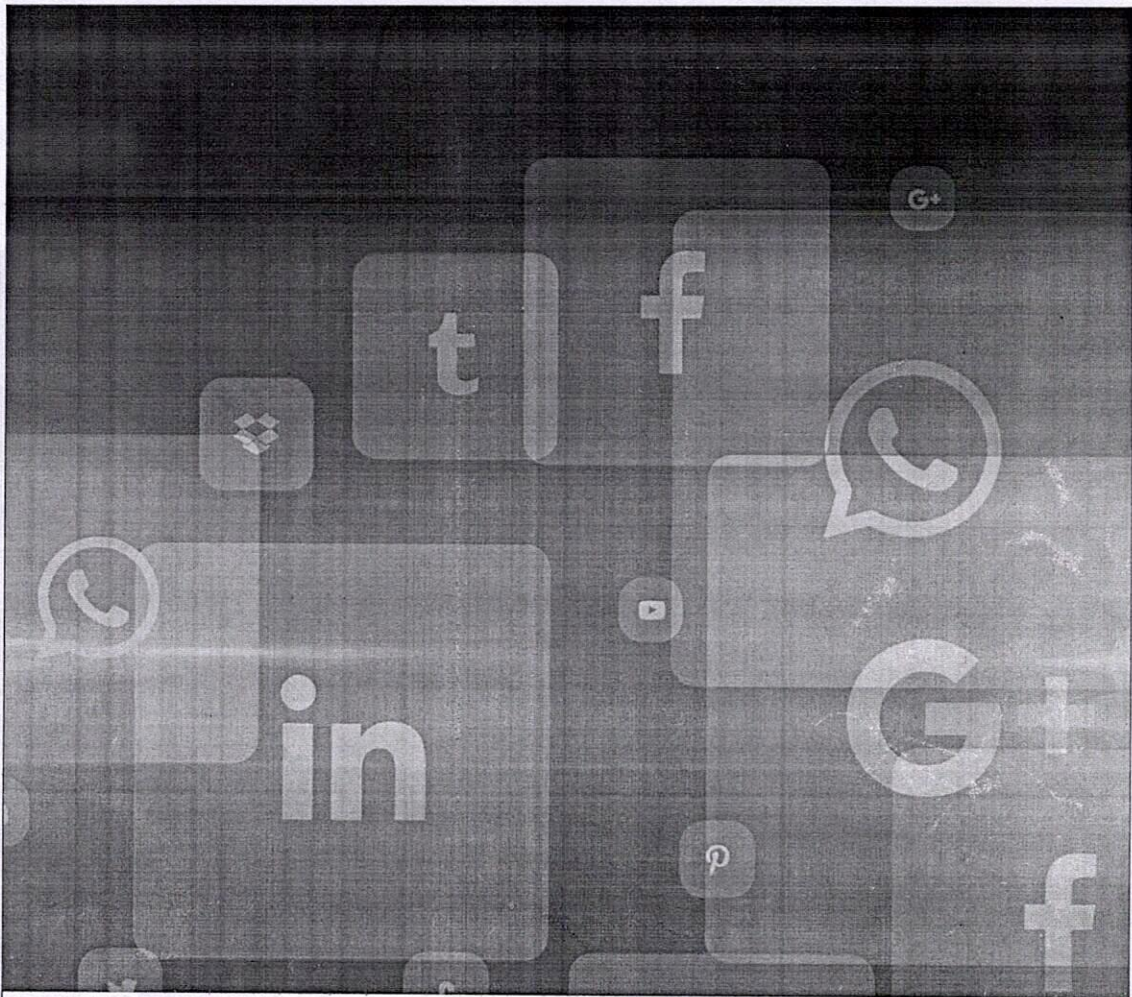
Answer: (B)

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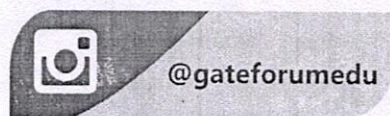
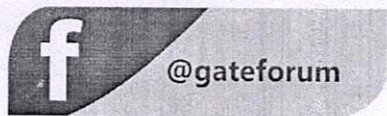
55. Let $r = x^2 + y - z$ and $z^3 - xy + yz + y^3 = 1$. Assume that x and y are independent variables. At $(x, y, z) = (2, -1, 1)$, the value (correct to two decimal places) of $\frac{\partial r}{\partial x}$ is _____.

Answer: (4.5)

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