



AICTE ID: 1-3548321

College Code: 231

# R.D. ENGINEERING COLLEGE

Approved by AICTE New Delhi & Affiliated to Dr. APJ Abdul Kalam Technical University, Lucknow  
under the aegis of IQAC

Date: 10/01/2020

## DEPARTMENT OF CIVIL ENGINEERING

### NOTICE

To,  
CE VI semester students,

We are pleased to announce the commencement of special classes to prepare you for the upcoming Graduate Aptitude Test in Engineering (GATE) examination. These classes are designed to provide you with comprehensive and effective guidance to excel in one of the most prestigious examinations in the field of engineering.

**Class Details:**

**Commencement Date:** 17 Jan 2020

**Venue:** C Block Room C 104

Sincerely,

**Dr. Pankaj Kumar Singh**  
HOD -CE



**Director**  
R.D. Engineering College  
Duhai, Ghaziabad

**Director**  
R.D. Engineering College  
Duhai, Ghaziabad

## Section 1: Engineering Mathematics

**Linear Algebra:** Matrix algebra; Systems of linear equations; Eigen values and Eigen vectors.

**Calculus:** Functions of single variable; Limit, continuity and differentiability; Mean value theorems, local maxima and minima, Taylor and Maclaurin series; Evaluation of definite and indefinite integrals, application of definite integral to obtain area and volume; Partial derivatives; Total derivative; Gradient, Divergence and Curl, Vector identities, Directional derivatives, Line, Surface and Volume integrals, Stokes, Gauss and Green's theorems.

**Ordinary Differential Equation (ODE):** First order (linear and non-linear) equations; higher order linear equations with constant coefficients; Euler-Cauchy equations; Laplace transform and its application in solving linear ODEs; initial and boundary value problems.

**Partial Differential Equation (PDE):** Fourier series; separation of variables; solutions of one-dimensional diffusion equation; first and second order one-dimensional wave equation and two-dimensional Laplace equation.

**Probability and Statistics:** Definitions of probability and sampling theorems; Conditional probability; Discrete Random variables: Poisson and Binomial distributions; Continuous random variables: normal and exponential distributions; Descriptive statistics - Mean, median, mode and standard deviation; Hypothesis testing.

**Numerical Methods:** Accuracy and precision; error analysis. Numerical solutions of linear and non-linear algebraic equations; Least square approximation, Newton's and Lagrange polynomials, numerical differentiation, Integration by trapezoidal and Simpson's rule, single and multi-step methods for first order differential equations.

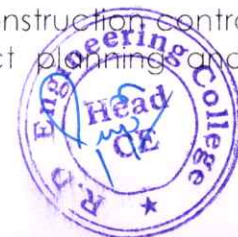
## Section 2: Structural Engineering

**Engineering Mechanics:** System of forces, free-body diagrams, equilibrium equations; Internal forces in structures; Friction and its applications; Kinematics of point mass and rigid body; Centre of mass; Euler's equations of motion; Impulse-momentum; Energy methods; Principles of virtual work.

**Solid Mechanics:** Bending moment and shear force in statically determinate beams; Simple stress and strain relationships; Theories of failures; Simple bending theory, flexural and shear stresses, shear centre; Uniform torsion, 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; Bricks and mortar; Timber; Bitumen. Construction Management: Types of construction projects; Tendering and construction contracts; Rate analysis and standard specifications; Cost estimation; Project planning and network analysis - PERT and CPM.



**Concrete Structures:** Working stress, Limit state and Ultimate load design concepts; Design of beams, slabs, columns; Bond and development length; Prestressed concrete; Analysis of beam sections at transfer and service loads.

**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; Plastic analysis of beams and frames.

### Section 3: Geotechnical Engineering

**Soil Mechanics:** Origin of soils, soil structure and fabric; Three-phase system and phase relationships, index properties; Unified and Indian standard soil classification system; Permeability - one dimensional flow, Darcy's law; Seepage through soils - two-dimensional flow, flow nets, uplift pressure, piping; Principle of effective stress, capillarity, seepage force and quicksand condition; Compaction in laboratory and field conditions; One-dimensional consolidation, time rate of consolidation; Mohr's circle, stress paths, effective and total shear strength parameters, characteristics of clays and sand.

**Foundation Engineering:** Sub-surface investigations - scope, 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, method of slices and Bishop's method; Stress distribution in soils - Boussinesq's and Westergaard's theories, 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 - types of piles, dynamic and static formulae, load capacity of piles in sands and clays, pile load test, negative skin friction.

### Section 4: Water Resources Engineering

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

**Hydraulics:** Forces on immersed bodies; Flow measurement in channels and pipes; Dimensional analysis and hydraulic similitude; Kinematics of flow, velocity triangles; Basics of hydraulic machines, specific speed of pumps and turbines; Channel Hydraulics - Energy-depth relationships, specific energy, critical flow, slope profile, hydraulic jump, uniform flow and gradually varied flow

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

**Irrigation:** Duty, delta, estimation of evapo-transpiration; Crop water requirements; Design of lined and unlined canals, head works, gravity dams and spillways; Design of weirs on permeable foundation; Types of irrigation systems, irrigation methods; Water logging and drainage; Canal regulatory works, cross-drainage structures, outlets and escapes.

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## Section 5: Environmental Engineering

**Water and Waste Water:** Quality standards, basic unit processes and operations for water treatment. Drinking water standards, water requirements, basic unit operations and unit processes for surface water treatment, distribution of water. Sewage and sewerage treatment, quantity and characteristics of wastewater. Primary, secondary and tertiary treatment of wastewater, effluent discharge standards. Domestic wastewater treatment, quantity of characteristics of domestic wastewater, primary and secondary treatment. Unit operations and unit processes of domestic wastewater, sludge disposal.

**Air Pollution:** Types of pollutants, their sources and impacts, air pollution meteorology, air pollution control, air quality standards 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).

**Noise Pollution:** Impacts of noise, permissible limits of noise pollution, measurement of noise and control of noise pollution.

## Section 6: Transportation Engineering

**Transportation Infrastructure:** Highway alignment and engineering surveys; Geometric design of highways - cross-sectional elements, sight distances, horizontal and vertical alignments; Geometric design of railway track; Airport runway length, taxiway and exit taxiway design.

**Highway Pavements:** Highway materials - desirable properties and quality control tests; Design of bituminous paving mixes; Design factors for flexible and rigid pavements; Design of flexible pavement using IRC: 37-2012; Design of rigid pavements using IRC: 58-2011; Distresses in concrete pavements.

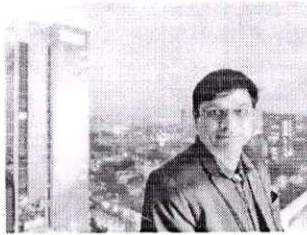
**Traffic Engineering:** Traffic studies on flow, speed, travel time - delay and O-D study, PCU, peak hour factor, parking study, accident study and analysis, statistical analysis of traffic data; Microscopic and macroscopic parameters of traffic flow, fundamental relationships; Control devices, signal design by Webster's method; Types of intersections and channelization; Highway capacity and level of service of rural highways and urban roads.

## 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 - scale, flying height; Remote sensing - basics, platform and sensors, visual image interpretation; Basics of Geographical information system (GIS) and Geographical Positioning system (GPS).

  
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Dr Pankaj Kumar Singh is PhD in Civil Engineering and M.Tech in the Diversified Engg Stream, He also holds a MBA in Foreign Trade.

Dr Singh is Director Research in R D Engineering College, Ghaziabad.

He also serves as Guest Professor in several countries like Philippines, Qatar etc.


His research area of interest is Environmental Conservation & Sustainability, Biological Waste water treatment, Plant medicine, Crop recognition & monitoring, AI & Modelling and so on.

He wrote 5+ books and book chapter in diversified field.

His work is in the field of Patent and till now published more than 30+ national and International Patent and Granted 10+ National and International Patent along with Professors/Researcher of US, Canada, UK, Russia, Syria, Philippines etc as well as Published many Research Papers in reputed journals like MDPI(SCI), ESCI, ABDC Journal , Scopus , Springer, UGC -Care etc.

He also holds session Chair in many International Conferences in different countries like Las Vegas, New Jersey, Bali, Geneva, George Town (Australia).

After all these achievements, Dr Singh was awarded as **\*Best Research Director in the field of Biological Waste water treatment & Plant Medicine\*** and many more awards

  
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SANJAY PALIWAL is a Renowned Professor in the Mechanical Department at R D Engineering College, Ghaziabad, INDIA.

He has done B.E. & M.Tech. and Published Several Research Papers and National and International Patent to his Credit. He has Attended Several National & International Conferences. He has 5 year Industry & 22 year Teaching Experience.

  
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R.D. Engineering College  
Duhai, Ghaziabad



**GATE CLASSES (2019-20), 6TH SEM STUDENTS ATTENDANCE  
CIVIL DEPARTMENT, RDEC GHAZIABAD**

DATE: 17/01/2020

Sr. No.	Student Name	Roll No.	Attendance
1	ABBAS CHOUDHARY	1723100001	Abbas
2	ABHISHEK YADAV	1723100002	Abhishek
3	ANIKET KUMAR GAUTAM	1723100003	Aniket
4	ANKIT TYAGI	1723100004	Ankit Tyagi
5	ANSHUMAN SINGH	1723100005	Anshuman
6	ASHAWANI KUMAR	1723100006	Absent
7	ASHISH KUMAR	1723100007	Ashish Kumar
8	ASHISH KUMAR	1723100008	Ashish Kumar
9	HIMANSHU SINGH	1723100012	Himanshu
10	KM MUKTA JAIWAL	1723100013	KM Mukta
11	NIRAJ GAUTAM	1723100015	Niraj Gautam
12	PIYUSH TYAGI	1723100017	Piyush Tyagi
13	RAVI RANJAN KUMAR	1723100018	Absent
14	RAVIKANT KUMAR	1723100019	Ravikant Kumar
15	SAMSHUL	1723100020	Samskul
16	SANDEEP KUMAR	1723100021	Sandeep Kumar
17	SUMIT	1723100023	Sumit
18	TUSHAR THAKUR	1723100024	Tushar Thakur
19	UMAIR ALI KHAN	1723100025	Absent
20	UMESH CHANDRA BHARTIY	1723100026	Umesh Bhartiya
21	VISHAL	1723100027	Vishal
22	YOGESH	1723100028	Yogesh
23	SHWETA	1765400011	Shweta
24	AQEEB PARVEZ	1823100901	Aqeeb Parvez
25	CHARU SHARMA	1823100902	Absent
26	JUNAID UL ISLAM	1823100903	Junaid Islam
27	KAJAL	1823100904	Kajal
28	KM KIRTI	1823100905	Kirti
29	KM SONAM	1823100906	Sonam
30	MANOJ KUMAR MAURYA	1823100907	M. Maurya
31	MOHAMMED ALI QURESHI	1823100908	Md. Ali Qureshi
32	PANKAJ KUMAR SHARMA	1823100911	P. Kumar Sharma
33	PAYAL	1823100912	Payal
34	RITIK CHAUDHARY	1823100913	Absent
35	SHAISTA SHAFI	1823100914	Shaista
36	SUMIT	1823100915	Absent
37	UBAIDULLAH RATHER	1823100916	Absent

*(Signature)*

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**GATE CLASSES (2019-20), 6TH SEM STUDENTS ATTENDANCE**  
**CIVIL DEPARTMENT, RDEC GHAZIABAD**

DATE: 24/01/2020

Sr. No.	Student Name	Roll No.	Attendance
1	ABBAS CHOUDHARY	1723100001	Abbas
2	ABHISHEK YADAV	1723100002	Abhishek
3	ANIKET KUMAR GAUTAM	1723100003	Aniket
4	ANKIT TYAGI	1723100004	Ankit Tyagi
5	ANSHUMAN SINGH	1723100005	Absent
6	ASHAWANI KUMAR	1723100006	Anshuman Singh
7	ASHISH KUMAR	1723100007	Ashawani
8	ASHISH KUMAR	1723100008	Ashish Kumar
9	HIMANSHU SINGH	1723100012	Ashish Kumar
10	KM MUKTA JAIWAL	1723100013	Absent
11	NIRAJ GAUTAM	1723100015	Niraj Gautam
12	PIYUSH TYAGI	1723100017	Piyush Tyagi
13	RAVI RANJAN KUMAR	1723100018	Ravi Ranjan Kumar
14	RAVIKANT KUMAR	1723100019	Ravikant Kumar
15	SAMSHUL	1723100020	Absent
16	SANDEEP KUMAR	1723100021	Sandeep Kumar
17	SUMIT	1723100023	Sumit
18	TUSHAR THAKUR	1723100024	Tushar Thakur
19	UMAIR ALI KHAN	1723100025	Umar Ali
20	UMESH CHANDRA BHARTIY	1723100026	Absent
21	VISHAL	1723100027	Vishal
22	YOGESH	1723100028	Yogesh
23	SHWETA	1765400011	Shweta
24	AQEEB PARVEZ	1823100901	Absent
25	CHARU SHARMA	1823100902	Charu Sharma
26	JUNAID UL ISLAM	1823100903	Junaid
27	KAJAL	1823100904	Kajal
28	KM KIRTI	1823100905	Absent
29	KM SONAM	1823100906	Sonam
30	MANOJ KUMAR MAURYA	1823100907	Absent
31	MOHAMMED ALI QURESHI	1823100908	Md. Ali
32	PANKAJ KUMAR SHARMA	1823100911	Pankaj Sharma
33	PAYAL	1823100912	Payal
34	RITIK CHAUDHARY	1823100913	Absent
35	SHAISTA SHAFI	1823100914	Absent
36	SUMIT	1823100915	Sumit
37	UBAIDULLAH RATHER	1823100916	Absent

  
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**GATE CLASSES (2019-20), 6TH SEM STUDENTS ATTENDANCE**  
**CIVIL DEPARTMENT, RDEC GHAZIABAD**

DATE: 31/01/2020

Sr. No.	Student Name	Roll No.	Attendance
1	ABBAS CHOUDHARY	1723100001	Abbas
2	ABHISHEK YADAV	1723100002	Abhishek
3	ANIKET KUMAR GAUTAM	1723100003	Aniket Gautam
4	ANKIT TYAGI	1723100004	Ankit Tyagi
5	ANSHUMAN SINGH	1723100005	Absent
6	ASHAWANI KUMAR	1723100006	Ashwani Kmr.
7	ASHISH KUMAR	1723100007	Ashish Kumar
8	ASHISH KUMAR	1723100008	Absent
9	HIMANSHU SINGH	1723100012	Himanshu
10	KM MUKTA JAIWAL	1723100013	Mukta
11	NIRAJ GAUTAM	1723100015	Niraj
12	PIYUSH TYAGI	1723100017	Piyush Tyagi
13	RAVI RANJAN KUMAR	1723100018	Ravi Ranjan
14	RAVIKANT KUMAR	1723100019	Ravikant
15	SAMSHUL	1723100020	Absent
16	SANDEEP KUMAR	1723100021	Sandeep Kmr.
17	SUMIT	1723100023	Sumit
18	TUSHAR THAKUR	1723100024	T. Thakur
19	UMAIR ALI KHAN	1723100025	Umer
20	UMESH CHANDRA BHARTIY	1723100026	Absent
21	VISHAL	1723100027	Vishal
22	YOGESH	1723100028	Yogesh
23	SHWETA	1765400011	Absent
24	AQEEB PARVEZ	1823100901	A. Parvez
25	CHARU SHARMA	1823100902	Charu Sharma
26	JUNAID UL ISLAM	1823100903	Junaid
27	KAJAL	1823100904	Kajal
28	KM KIRTI	1823100905	Absent
29	KM SONAM	1823100906	Sonam
30	MANOJ KUMAR MAURYA	1823100907	Absent
31	MOHAMMED ALI QURESHI	1823100908	Md. Ali
32	PANKAJ KUMAR SHARMA	1823100911	Pankaj Kumar
33	PAYAL	1823100912	Absent
34	RITIK CHAUDHARY	1823100913	Ritik Chaudhary
35	SHAISTA SHAFI	1823100914	Absent
36	SUMIT	1823100915	Sumit
37	UBAIDULLAH RATHER	1823100916	Absent

  
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**GATE CLASSES (2019-20), 6TH SEM STUDENTS ATTENDANCE**  
**CIVIL DEPARTMENT, RDEC GHAZIABAD**

DATE: 7/02/2020

Sr. No.	Student Name	Roll No.	Attendance
1	ABBAS CHOUDHARY	1723100001	Abbas
2	ABHISHEK YADAV	1723100002	Abhishek Yadav
3	ANIKET KUMAR GAUTAM	1723100003	Aniket Gautam
4	ANKIT TYAGI	1723100004	Absent
5	ANSHUMAN SINGH	1723100005	Anshuman
6	ASHAWANI KUMAR	1723100006	Ashwani
7	ASHISH KUMAR	1723100007	Ashish Kur.
8	ASHISH KUMAR	1723100008	Absent
9	HIMANSHU SINGH	1723100012	Absent
10	KM MUKTA JAIWAL	1723100013	Mukta
11	NIRAJ GAUTAM	1723100015	Niraj Gautam
12	PIYUSH TYAGI	1723100017	Absent
13	RAVI RANJAN KUMAR	1723100018	Ravi Ranjan
14	RAVIKANT KUMAR	1723100019	Ravikant
15	SAMSHUL	1723100020	Samsul.
16	SANDEEP KUMAR	1723100021	Absent
17	SUMIT	1723100023	Sumit
18	TUSHAR THAKUR	1723100024	T. Thakur
19	UMAIR ALI KHAN	1723100025	Omar
20	UMESH CHANDRA BHARTIY	1723100026	Absent
21	VISHAL	1723100027	Vishal
22	YOGESH	1723100028	Absent
23	SHWETA	1765400011	Shweta
24	AQEEB PARVEZ	1823100901	Aqeeb
25	CHARU SHARMA	1823100902	Absent
26	JUNAID UL ISLAM	1823100903	Junaid
27	KAJAL	1823100904	Kajal
28	KM KIRTI	1823100905	Kirti
29	KM SONAM	1823100906	Absent
30	MANOJ KUMAR MAURYA	1823100907	Manoj Maurya
31	MOHAMMED ALI QURESHI	1823100908	Absent
32	PANKAJ KUMAR SHARMA	1823100911	Absent
33	PAYAL	1823100912	Payal
34	RITIK CHAUDHARY	1823100913	Ritik Chaudhary
35	SHAISTA SHAFI	1823100914	Absent
36	SUMIT	1823100915	Sumit
37	UBAIDULLAH RATHER	1823100916	Absent



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**GATE CLASSES (2019-20), 6TH SEM STUDENTS ATTENDANCE**  
**CIVIL DEPARTMENT, RDEC GHAZIABAD**

DATE: 14/02/2020

Sr. No.	Student Name	Roll No.	Attendance
1	ABBAS CHOUDHARY	1723100001	Abbas Ch.
2	ABHISHEK YADAV	1723100002	Abhishek
3	ANIKET KUMAR GAUTAM	1723100003	Anket
4	ANKIT TYAGI	1723100004	Ankit Tyagi
5	ANSHUMAN SINGH	1723100005	Absent
6	ASHAWANI KUMAR	1723100006	Ashawani Kmr.
7	ASHISH KUMAR	1723100007	Ashish Kmr.
8	ASHISH KUMAR	1723100008	Absent
9	HIMANSHU SINGH	1723100012	Himanshu Singh
10	KM MUKTA JAIWAL	1723100013	Mukta
11	NIRAJ GAUTAM	1723100015	Niraj Gautam
12	PIYUSH TYAGI	1723100017	Piyush Tyagi
13	RAVI RANJAN KUMAR	1723100018	Absent
14	RAVIKANT KUMAR	1723100019	Ravikant Kmr.
15	SAMSHUL	1723100020	Samskul.
16	SANDEEP KUMAR	1723100021	Sandeep Kumar
17	SUMIT	1723100023	Sumit
18	TUSHAR THAKUR	1723100024	Absent
19	UMAIR ALI KHAN	1723100025	Umar Ali
20	UMESH CHANDRA BHARTIY	1723100026	Umesh chandra
21	VISHAL	1723100027	Vishal
22	YOGESH	1723100028	Yogesh
23	SHWETA	1765400011	Absent
24	AQEEB PARVEZ	1823100901	Absent
25	CHARU SHARMA	1823100902	Charu Sharma
26	JUNAID UL ISLAM	1823100903	Junaid Islam
27	KAJAL	1823100904	Kajal
28	KM KIRTI	1823100905	Absent
29	KM SONAM	1823100906	Sonam
30	MANOJ KUMAR MAURYA	1823100907	Manoj Maurya
31	MOHAMMED ALI QURESHI	1823100908	Absent
32	PANKAJ KUMAR SHARMA	1823100911	Absent
33	PAYAL	1823100912	Payal
34	RITIK CHAUDHARY	1823100913	Ritik Chaudhary
35	SHAISTA SHAFI	1823100914	Absent
36	SUMIT	1823100915	Sumit.
37	UBAIDULLAH RATHER	1823100916	Absent

  
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**GATE CLASSES (2019-20), 6TH SEM STUDENTS ATTENDANCE**  
**CIVIL DEPARTMENT, RDEC GHAZIABAD**

DATE: 28/02/2020

Sr. No.	Student Name	Roll No.	Attendance
1	ABBAS CHOUDHARY	1723100001	Abbas
2	ABHISHEK YADAV	1723100002	Abhishek
3	ANIKET KUMAR GAUTAM	1723100003	Aniket Kmr.
4	ANKIT TYAGI	1723100004	Ankit Tyagi
5	ANSHUMAN SINGH	1723100005	Absent
6	ASHAWANI KUMAR	1723100006	Ashawani Kmr.
7	ASHISH KUMAR	1723100007	Ashish Kmr.
8	ASHISH KUMAR	1723100008	Absent
9	HIMANSHU SINGH	1723100012	Himanshu
10	KM MUKTA JAIWAL	1723100013	Absent
11	NIRAJ GAUTAM	1723100015	Niraj Gautam
12	PIYUSH TYAGI	1723100017	Piyush Tyagi
13	RAVI RANJAN KUMAR	1723100018	Ravi Ranjan Kmr.
14	RAVIKANT KUMAR	1723100019	Absent
15	SAMSHUL	1723100020	Samskul.
16	SANDEEP KUMAR	1723100021	Sandeep Kmr.
17	SUMIT	1723100023	Sumit
18	TUSHAR THAKUR	1723100024	Absent
19	UMAIR ALI KHAN	1723100025	Umar Ali Khan
20	UMESH CHANDRA BHARTIY	1723100026	Umesh Bhartiya
21	VISHAL	1723100027	Absent
22	YOGESH	1723100028	Yogesh
23	SHWETA	1765400011	Shweta
24	AQEEB PARVEZ	1823100901	Aqeeb Parvez
25	CHARU SHARMA	1823100902	Absent
26	JUNAID UL ISLAM	1823100903	Junaid Islam
27	KAJAL	1823100904	Kajal
28	KM KIRTI	1823100905	Kirti
29	KM SONAM	1823100906	Sonam
30	MANOJ KUMAR MAURYA	1823100907	Absent
31	MOHAMMED ALI QURESHI	1823100908	Absent
32	PANKAJ KUMAR SHARMA	1823100911	Pankaj Sharma
33	PAYAL	1823100912	Payal
34	RITIK CHAUDHARY	1823100913	Absent
35	SHAISTA SHAFI	1823100914	Shaista Shafi
36	SUMIT	1823100915	Sumit
37	UBAIDULLAH RATHER	1823100916	Absent

  
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**GATE CLASSES (2019-20), 6TH SEM STUDENTS ATTENDANCE**  
**CIVIL DEPARTMENT, RDEC GHAZIABAD**

DATE: 6/03/2020

Sr. No.	Student Name	Roll No.	Attendance
1	ABBAS CHOUDHARY	1723100001	Abbas
2	ABHISHEK YADAV	1723100002	Abhishek
3	ANIKET KUMAR GAUTAM	1723100003	Aniket Kmr.
4	ANKIT TYAGI	1723100004	ABSENT
5	ANSHUMAN SINGH	1723100005	Anshuman Singh
6	ASHAWANI KUMAR	1723100006	Ashawaney Kmr
7	ASHISH KUMAR	1723100007	ABSENT
8	ASHISH KUMAR	1723100008	Aashish Kumar
9	HIMANSHU SINGH	1723100012	ABSENT
10	KM MUKTA JAIWAL	1723100013	ABSENT
11	NIRAJ GAUTAM	1723100015	Niraj Gautam
12	PIYUSH TYAGI	1723100017	Piyush Tyagi
13	RAVI RANJAN KUMAR	1723100018	ABSENT
14	RAVIKANT KUMAR	1723100019	ABSENT
15	SAMSHUL	1723100020	Samskul
16	SANDEEP KUMAR	1723100021	ABSENT
17	SUMIT	1723100023	Sumit
18	TUSHAR THAKUR	1723100024	ABSENT
19	UMAIR ALI KHAN	1723100025	Umar Ali
20	UMESH CHANDRA BHARTIY	1723100026	Umesh Chandra
21	VISHAL	1723100027	Vishal
22	YOGESH	1723100028	ABSENT
23	SHWETA	1765400011	ABSENT
24	AQEEB PARVEZ	1823100901	Aqeeb Parvez
25	CHARU SHARMA	1823100902	Charu Sharma
26	JUNAID UL ISLAM	1823100903	ABSENT
27	KAJAL	1823100904	Kajal
28	KM KIRTI	1823100905	Kirti
29	KM SONAM	1823100906	Sonam
30	MANOJ KUMAR MAURYA	1823100907	Manoj Kumar Maurya
31	MOHAMMED ALI QURESHI	1823100908	ABSENT
32	PANKAJ KUMAR SHARMA	1823100911	ABSENT
33	PAYAL	1823100912	Payal
34	RITIK CHAUDHARY	1823100913	ABSENT
35	SHAISTA SHAFI	1823100914	Shafi
36	SUMIT	1823100915	Sumit
37	UBAIDULLAH RATHER	1823100916	ABSENT

  
 Director  
 R.D. Engineering College  
 Duha, Ghaziabad



**GATE CLASSES (2019-20), 6TH SEM STUDENTS ATTENDANCE**  
**CIVIL DEPARTMENT, RDEC GHAZIABAD**

DATE: 20/03/2020

Sr. No.	Student Name	Roll No.	Attendance
1	ABBAS CHOUDHARY	1723100001	
2	ABHISHEK YADAV	1723100002	Abhishek
3	ANIKET KUMAR GAUTAM	1723100003	Aniket kumar
4	ANKIT TYAGI	1723100004	Absent
5	ANSHUMAN SINGH	1723100005	Anshuman Singh
6	ASHAWANI KUMAR	1723100006	Absent
7	ASHISH KUMAR	1723100007	Ashish
8	ASHISH KUMAR	1723100008	Absent
9	HIMANSHU SINGH	1723100012	Himanshu Singh
10	KM MUKTA JAIWAL	1723100013	Mukta Jaiwal
11	NIRAJ GAUTAM	1723100015	Absent
12	PIYUSH TYAGI	1723100017	Piyush Tyagi
13	RAVI RANJAN KUMAR	1723100018	Absent
14	RAVIKANT KUMAR	1723100019	Ravikant
15	SAMSHUL	1723100020	Samsul
16	SANDEEP KUMAR	1723100021	Absent
17	SUMIT	1723100023	Sumit
18	TUSHAR THAKUR	1723100024	Tushar Thakur
19	UMAIR ALI KHAN	1723100025	Absent
20	UMESH CHANDRA BHARTIY	1723100026	Absent
21	VISHAL	1723100027	Vishal
22	YOGESH	1723100028	Yogesh
23	SHWETA	1765400011	Absent
24	AQEEB PARVEZ	1823100901	Absent
25	CHARU SHARMA	1823100902	Charu Sharma
26	JUNAID UL ISLAM	1823100903	Junaid
27	KAJAL	1823100904	Kajal
28	KM KIRTI	1823100905	Absent
29	KM SONAM	1823100906	Sonam
30	MANOJ KUMAR MAURYA	1823100907	M. Kumar
31	MOHAMMED ALI QURESHI	1823100908	Absent
32	PANKAJ KUMAR SHARMA	1823100911	Absent
33	PAYAL	1823100912	Payal
34	RITIK CHAUDHARY	1823100913	Ritik Ch.
35	SHAISTA SHAFI	1823100914	Absent
36	SUMIT	1823100915	Sumit
37	UBAIDULLAH RATHER	1823100916	Absent

  
 Director  
 R.D. Engineering College  
 Duhai, Ghaziabad





AICTE ID: 1-3548321

College Code: 231

# R.D. ENGINEERING COLLEGE

Approved by AICTE New Delhi & Affiliated to Dr. APJ Abdul Kalam Technical University, Lucknow  
under the aegis of IQAC

Date: 20/03/2020

## DEPARTMENT OF CIVIL ENGINEERING

### NOTICE

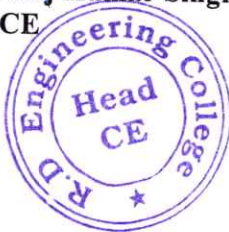
Dear Students,

In light of the ongoing situation with the COVID-19 pandemic, we regret to inform you that the Graduate Aptitude Test in Engineering (GATE) preparation classes will be temporarily suspended until further notice.

The health and well-being of our students and staff are our top priority, and we believe that this precautionary measure is necessary to ensure everyone's safety. The decision to suspend classes is in line with the guidelines and recommendations from health authorities.

Sincerely,

  
Dr. Pankaj Kumar Singh  
HOD -CE





AICTE ID: 1-3548321

College Code: 231

# R. D. ENGINEERING COLLEGE

Approved by AICTE New Delhi & Affiliated to Dr. APJ Abdul Kalam Technical University, Lucknow  
under the aegis of IQAC

## Department of Electronics and Communication Engineering

Date:02.09.2019

### Notice

Dear ECE V semester students,

We are excited to announce the commencement of special classes for the preparation of the Graduate Aptitude Test in Engineering (GATE). The GATE exam is a gateway to some of the most prestigious postgraduate programs and job opportunities in the field of engineering.

#### Classes Details:

Commencement Date: 13 Sep 2019

Venue: C Block Room No. C 201



Mr. Vishal Upmanu  
(HOD-ECE)

  
Director  
R.D. Engineering College  
Duhai, Ghaziabad

CC to:

- Director, RDEC
- Coordinator, IQAC
- Dean Academics
- Departmental Notice Board





AICTE ID: 1-3548321

College Code: 231

# R. D. ENGINEERING COLLEGE

Approved by AICTE New Delhi & Affiliated to Dr. APJ Abdul Kalam Technical University, Lucknow  
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## Department of Electronics and Communication Engineering

### Faculty Profile



Mr. Mohit Kumar Singh is a Renowned Assistant Professor in the field of Electronics and Communication Engineering department at RD engineering college Ghaziabad.

He has done B.Tech, M.Tech. He has published several research papers in national and international journals and he has several patents.

He has more than 13 years of teaching experience.

  
Director  
R.D. Engineering College  
Duhai, Ghaziabad

# R D Engineering College, Ghaziabad

GATE CLASSES for B. Tech (ECE - V Sem) Session 2019-20

## Attendance Sheet

SN	Roll No.	Student's Name	13-09-2019	20-09-2019	27-10-2019	04-10-2019	11-10-2019	18-10-2019	25-10-2019	01-11-2019	08-11-2019	15-11-2019
1	1723131001	AASHISH CHAUDHARY	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
2	1723131002	ABHIJEET CHAUDHARY	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
3	1723131003	ABHISHEK JHA	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
4	1723131004	ANIRUOH SHARAWAT	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
5	1723131005	Arun Kumar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
6	1723131006	ASHISH KUMAR NSA	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
7	1723131007	HIMANSHU CHAUDHARY	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
8	1723131009	ANJALI	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
9	1723131010	ANSHU SHARMA	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
10	1723131011	IVOTI	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
11	1723131012	IVOTI RANI	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
12	1723131013	TEENA	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
13	1723131014	MANISH KR HALDONUA	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
14	1723131015	MEENAL	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
15	1723131016	MUZAMMIL	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
16	1723131017	PRASHANT KUMAR	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
17	1723131018	PREETI MAANRAL	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
18	1723131020	RAMJI RAM	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
19	1723131021	RHITAM PAWAR	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
20	1723131022	RITESH BISHT	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
21	1723131023	RITIK SIWACH	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
22	1723131026	SHAKSHI TOMAR	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
23	1723131027	SAVANT GIRI	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
24	1723131090	TALIB	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
25	1723131031	Vishal	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
26	1723131032	VIVEK SINGH	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
27	1823131901	DHARAMENDRA KUMAR	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
28	1723110026	ASHWANI TIAGI	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
29	1723110082	RIVA AGGARWAL	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
30	1723110094	SHAQUIM CHAUDHARY	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present

Mr. Mohit Kumar Singh  
Program Coordinator

Director  
R.D. Engineering College  
Duhai, Ghaziabad

### **Section 1: Engineering Mathematics**

Linear Algebra: Vector space, basis, linear dependence and independence, matrix algebra, eigen values and eigen vectors, rank, solution of linear equations – existence and uniqueness.

Calculus: Mean value theorems, theorems of integral calculus, evaluation of definite and improper integrals, partial derivatives, maxima and minima, multiple integrals, line, surface and volume integrals, Taylor series.

Differential Equations: First order equations (linear and nonlinear), higher order linear differential equations, Cauchy's and Euler's equations, methods of solution using variation of parameters, complementary function and particular integral, partial differential equations, variable separable method, initial and boundary value problems.

Vector Analysis: Vectors in plane and space, vector operations, gradient, divergence and curl, Gauss's, Green's and Stoke's theorems.

Complex Analysis: Analytic functions, Cauchy's integral theorem, Cauchy's integral formula; Taylor's and Laurent's series, residue theorem.

Numerical Methods: Solution of nonlinear equations, single and multi-step methods for differential equations, convergence criteria.

Probability and Statistics: Mean, median, mode and standard deviation; combinatorial probability, probability distribution functions - binomial, Poisson, exponential and normal; Joint and conditional probability; Correlation and regression analysis.

### **Section 2: Networks, Signals and Systems**

Network solution methods: nodal and mesh analysis; Network theorems: superposition, Thevenin and Norton's, maximum power transfer; Wye-Delta transformation; Steady state sinusoidal analysis using phasors; Time domain analysis of simple linear circuits; Solution of network equations using Laplace transform; Frequency domain analysis of RLC circuits; Linear 2-port network parameters: driving point and transfer functions; State equations for networks.

Continuous-time signals: Fourier series and Fourier transform representations, sampling theorem and applications; Discrete-time signals: discrete-time Fourier transform (DTFT), DFT, FFT, Z-transform, interpolation of discrete-time signals; LTI systems: definition and properties, causality, stability, impulse response, convolution, poles and zeros, parallel and cascade structure, frequency response, group delay, phase delay, digital filter design techniques.

### **Section 3: Electronic Devices**

Energy bands in intrinsic and extrinsic silicon; Carrier transport: diffusion current, drift current, mobility and resistivity; Generation and recombination of carriers; Poisson and continuity equations; P-N junction, Zener diode, BJT, MOS capacitor, MOSFET, LED, photo diode and solar cell; Integrated circuit fabrication process: oxidation, diffusion, ion implantation, photolithography and twin-tub CMOS process.

  
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R.D. Engineering College  
Duhai, Ghaziabad

## 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 op-amp configurations; Function generators, wave-shaping circuits and 555 timers; Voltage reference circuits; Power supplies: ripple removal and regulation.

## Section 5: Digital Circuits

Number systems; Combinatorial circuits: Boolean algebra, minimization of functions using Boolean identities and Karnaugh map, logic gates and their static CMOS implementations, arithmetic circuits, code converters, multiplexers, decoders and PLAs; Sequential circuits: latches and flip-flops, counters, shift-registers and finite state machines; Data converters: sample and hold circuits, ADCs and DACs; Semiconductor memories: ROM, SRAM, DRAM; 8-bit microprocessor (8085): architecture, programming, memory and I/O interfacing.

## Section 6: Control Systems

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

## Section 7: Communications

Random processes: autocorrelation and power spectral density, properties of white noise, filtering of random signals through LTI systems; Analog communications: amplitude modulation and demodulation, angle modulation and demodulation, spectra of AM and FM, superheterodyne receivers, circuits for analog communications; Information theory: entropy, mutual information and channel capacity theorem; Digital communications: PCM, DPCM, digital modulation schemes, amplitude, phase and frequency shift keying (ASK, PSK, FSK), QAM, MAP and ML decoding, matched filter receiver, calculation of bandwidth, SNR and BER for digital modulation; Fundamentals of error correction, Hamming codes; Timing and frequency synchronization, inter-symbol interference and its mitigation; Basics of TDMA, FDMA and CDMA.

## Section 8: Electromagnetics

Electrostatics; Maxwell's equations: differential and integral forms and their interpretation, boundary conditions, wave equation, Poynting vector; Plane waves and properties: reflection and refraction, polarization, phase and group velocity, propagation through various media, skin depth; Transmission lines: equations, characteristic impedance, impedance matching, impedance transformation, S-parameters, Smith chart; Waveguides: modes, boundary conditions, cut-off frequencies, dispersion relations; Antennas: antenna types, radiation pattern, gain and directivity, return loss, antenna arrays; Basics of radar; Light propagation in optical fibers.



AICTE ID: 1-3548321

College Code: 231

# R.D. ENGINEERING COLLEGE

Approved by AICTE New Delhi & Affiliated to Dr. APJ Abdul Kalam Technical University, Lucknow  
under the aegis of IQAC

Date: 12/09/2019

## DEPARTMENT OF MECHANICAL ENGINEERING

### NOTICE

Dear ME Vth semester students,

We are excited to announce the commencement of special classes for the preparation of the Graduate Aptitude Test in Engineering (GATE). The GATE exam is a gateway to some of the most prestigious postgraduate programs and job opportunities in the field of engineering.

**Class Details:**

**Commencement Date: 19 Sep 2019**

**Venue: C Block Room No. C 205**

Sincerely,  
Prof. Sanjay Paliwal  
(HOD, ME)



CC:  
Director  
IQAC  
Dean Academics  
Departmental Notice Board

  
Director  
R.D. Engineering College  
Duhai, Ghaziabad



SANJAY PALIWAL is a Renowned Professor in the Mechanical Department at R D Engineering College, Ghaziabad, INDIA.

He has done B.E. & M.Tech. and Published Several Research Papers and National and International Patent to his Credit. He has Attended Several National & International Conferences. He has 5 year Industry & 19 year Teaching Experience.



  
Director  
R.D. Engineering College  
Duhai, Ghaziabad

## Section 1: Engineering Mathematics

Linear Algebra: Matrix algebra, systems of linear equations, eigenvalues and eigenvectors.

Calculus: Functions of single variable, limit, continuity and differentiability, mean value theorems, indeterminate forms; evaluation of definite and improper integrals; double and triple integrals; partial derivatives, total derivative, Taylor series (in one and two variables), maxima and minima, Fourier series; gradient, divergence and curl, vector identities, directional derivatives, line, surface and volume integrals, applications of Gauss, Stokes and Green's theorems.

Differential Equations: First order equations (linear and nonlinear); higher order linear differential equations with constant coefficients; Euler-Cauchy equation; initial and boundary value problems; Laplace transforms; solutions of heat, wave and Laplace's equations.

Complex Variables: Analytic functions; Cauchy-Riemann equations; Cauchy's integral theorem and integral formula; Taylor and Laurent series.

Probability and Statistics: Definitions of probability, sampling theorems, conditional probability; mean, median, mode and standard deviation; random variables, binomial, Poisson and normal distributions.

Numerical Methods: Numerical solutions of linear and non-linear algebraic equations; integration by trapezoidal and Simpson's rules; single and multi-step methods for differential equations.

## Section 2: Applied Mechanics and Design

Engineering Mechanics: Free-body diagrams and equilibrium; friction and its applications including rolling friction, belt-pulley, brakes, clutches, screw jack, wedge, vehicles, etc.; trusses and frames; virtual work; kinematics and dynamics of rigid bodies in plane motion; impulse and momentum (linear and angular) and energy formulations; Lagrange's equation.

Mechanics of Materials: Stress and strain, elastic constants, Poisson's ratio; Mohr's circle for plane stress and plane strain; thin cylinders; shear force and bending moment diagrams; bending and shear stresses; concept of shear centre; deflection of beams; torsion of circular shafts; Euler's theory of columns; energy methods; thermal stresses; strain gauges and rosettes; testing of materials with universal testing machine; testing of hardness and impact strength.

Theory of Machines: Displacement, velocity and acceleration analysis of plane mechanisms; dynamic analysis of linkages; cams; gears and gear trains; flywheels and governors; balancing of reciprocating and rotating masses; gyroscope.

Vibrations: Free and forced vibration of single degree of freedom systems, effect of damping; vibration isolation; resonance; critical speeds of shafts.

Machine Design: Design for static and dynamic loading; failure theories; fatigue strength and the S-N diagram; principles of the design of machine elements such as bolted, riveted and welded joints; shafts, gears, rolling and sliding contact bearings, brakes and clutches, springs.



  
Director  
R.D. Engineering College  
Duhai, Ghazal

### Section 3: Fluid Mechanics and Thermal Sciences

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.

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; radiative heat transfer, Stefan-Boltzmann law, Wien's displacement law, black and grey surfaces, view factors, radiation network analysis

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.

Applications: *Power Engineering*: Air and gas compressors; vapour and gas power cycles, concepts of regeneration and reheat. *I.C. Engines*: Air-standard Otto, Diesel and dual cycles. *Refrigeration and air-conditioning*: Vapour and gas refrigeration and heat pump cycles; properties of moist air, psychrometric chart, basic psychrometric processes. *Turbomachinery*: Impulse and reaction principles, velocity diagrams, Pelton-wheel, Francis and Kaplan turbines; steam and gas turbines.

### Section 4: Materials, Manufacturing and Industrial Engineering

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

Casting, Forming and Joining Processes: Different types of castings, design of patterns, moulds and cores; solidification and cooling; riser and gating design. 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.

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.

Metrology and Inspection: Limits, fits and tolerances; linear and angular measurements; comparators; interferometry; form and finish measurement; alignment and testing methods; tolerance analysis in manufacturing and assembly; concepts of coordinate-measuring machine (CMM).

Computer Integrated Manufacturing: Basic concepts of CAD/CAM and their integration tools; additive manufacturing.



  
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Duhai, Ghazipur



Production Planning and Control: Forecasting models, aggregate production planning, scheduling, materials requirement planning; lean manufacturing.

Inventory Control: Deterministic models; safety stock inventory control systems.

Operations Research: Linear programming, simplex method, transportation, assignment, network flow models, simple queuing models, PERT and CPM.



  
Director  
R.D. Engineering College  
Dutah, Vizianagaram

S.N.	Roll No.	Name	19-09-2019	26-09-2019	03-10-2019	10-10-2019	17-10-2019	24-10-2019	31-10-2019	07-11-2019	14-11-2019	21-11-2019	28-11-2019
1	1723140001	AAKARSH SINGHAL	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
2	1723140002	ABHINAV KUMAR	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
3	1723140003	ABHISHEK	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
4	1723140004	ABHISHEK	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
5	1723140005	AKSHAY PAL	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
6	1723140010	ATUL KUMAR	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
7	1723140011	BHASKAR CHOUDHARY	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
8	1723140012	BUNIL SAHANI	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
9	1723140013	DEEPAK	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
10	1723140016	DEEPAK KUMAR GUPTA	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
11	1723140017	GAURAV SAINI	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
12	1723140020	HARSHIT SINGHAL	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
13	1723140021	JATIN KUMAR	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
14	1723140022	JAYPRAKASH PAL	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
15	1723140023	KM SHIVANI RAJ	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
16	1723140024	KUNAL KUMAR	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
17	1723140025	LOKESH GAUTAM	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
18	1723140028	MONU	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
19	1723140029	MUKESH YADAV	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
20	1723140032	NITIN MISHRA	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
21	1723140033	NIKHIL RAGHAV	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
22	1723140034	RAHUL KUMAR GAUTAM	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
23	1723140035	RAHUL SINGH	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
24	1723140036	RAJEEV SINGH	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
25	1723140037	SHIKHAR TYAGI	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
26	1723140038	SHIVAM	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
27	1723140039	SHYAM SINGH	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
28	1723140040	SUMIT KUMAR	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
29	1723140041	SURAJ	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
30	1723140042	SURAJ KUSHWAHA	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
31	1823140901	MOHIT KUMAR SINGH	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
32	1823140902	NISHANT SWAROOP	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
33	1823140903	SHIVAM SHARMA	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh
34	1823140904	SHIVAM TYAGI	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh



R. D. Engineering College  
 Chhazirabad  
 Department of Mechanical Engineering  
 GATE CLASSES (2019-20)