In Pursuit of Excellence	**Lab Manual**	SESSION-2019-2020 SEM – I

Faculty Details

Name of the Faculty: Dr Manish Saxena

Designation: Associate Professor

Department: Department of Applied Sciences & Humanities

Course Details

Name of the Programme: B. Tech.

Batch: 2019-2023

Branch: CS, EC, EE, ME, CE

Semester: 1st

Name of Subject: Physics

Subject Code: KAS-101P

Category of Course: Core Subject

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B. Tech 1st Year (All branches except Bio Technology and Agriculture Engg.) Structure in accordance with AICTE Model Curriculum Effective w.e.f. Academic Session 2018-19 , 2019-20

SEMESTER - I

Sl. No.	Code	SUBJECT	PERIODS			EVALUATION SCHEME				END SEMESTER		TOTAL	CREDIT
			L	T	P	CT	TA	Total	PS	TE	PE		
3 WEEKS COMPULSORY INDUCTION PROGRAM													
1	KAS101/ KAS102	Physics/Chemistry	3	1	3	30	20	50	25	100	25	200	5.5
2	KAS103	Mathematics-I	3	1	0	30	20	50	-	100	-	150	4
3	KEE 101/ KCS101	Basic Electrical Engineering/Programming for Problem Solving	3	1	2	30	20	50	25	100	25	200	5
4	KCE101/ KWS101	Engineering Graphics & Design/Workshop Practices	1	0	4	-	-	-	25	-	25	50	3
	MOOCs (For B.Tech. Hons. Degree)*												0
		TOTAL										600	17.5

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In Pursuit of Excellence	Course Outcome of Practical	SESSION-2019-2020
		SEM – I

Course Outcomes(CO's)

Number of Course Outcomes **5**

At the end of course, Students will be able to :

Course Code	CO		Course Outcomes(COs)	Congnitive Levels
KAS101 P	CO1	KAS101 P.1	Ability to define and explain error estimation, Proportional error calculation superposition principle in Newton's ring.	Understand
	CO2	KAS101 P.2	Able to apply the law of wheat stone bridge to calibrate the potentiometer and to find out the specific resistance of a given wire using Carey Foster Bridge.	Apply
	CO3	KAS101 P.3	Able to apply the knowledge of law of electronics in order to understand the use of modern engineering physics tools and techniques, including laboratory instrumentation such as Energy Band Gap, Stefan's law etc.	Apply
	CO4	KAS101 P.4	With the understanding of the principals of light students will be able to use the concept in nodal slide.	Understand
	CO5	KAS101 P.5	By using the principle of viscosity students can determine the viscosity of different liquid in order to find its utilization in different aspect.	Apply

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APPLIED SCIENCES AND HUMANITIES
PHYSICS PRACTICAL KAS- 101P/201P
LIST OF EXPERIMENTS [2019 – 20]

As per University List (Any 10)

S.No.	Object For Various Experiment
1.	To determine the wavelength of monochromatic light by Newton's Ring/ To determine the radius of curvature of plano convex lens by Newton's Ring.
2.	To determine the focal length of the combination of two lenses separated by a distance with the help of nodal slide and to verify the formula $1/F=1/f_1 + 1/f_2-x/f_1f_2$
3.	To determine the specific rotation of cane sugar solution using half shade polarimeter.
4.	To determine the resistance per unit length and specific resistance of the material of a given wire using Carey Foster's Bridge.
5.	To plot a graph showing the variation of magnetic field with distance along the axis of a circular coil carrying current and to estimate from it the radius of the coil.
6.	To determine the coefficient of viscosity of water by Poiseuille's method.
7.	To verify Stefan's law by electrical method.
8.	To calibrate a given voltmeter by means of a potentiometer.
9.	To calibrate a given ammeter by means of a potentiometer.
10.	To determine wavelength of spectral lines using plane diffraction grating.
11.	To determine the wavelength of monochromatic light with the help of Fresnel's Biprism.
12.	To determine ECE of copper using Tangent or Helmholtz Galvanometer.
13.	To determine the ballistic constant of Ballistic Galvanometer.
14.	To determine the energy band gap of a semiconductor [Ge] using a PN junction diode.
15.	To determine the energy band gap of a semiconductor [Ge] using a Four-probe method

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APPLIED SCIENCES AND HUMANITIES
PHYSICS PRACTICAL
KAS- 101P/201P
LIST OF EXPERIMENTS
2019 – 20

S. No.	Object For Various Experiment
1.	To determine the wavelength of monochromatic light by Newton's Ring/ To determine the radius of curvature of plano-convex lens by Newton's Ring.
2.	To determine the focal length of the combination of two lenses separated by a distance with the help of nodal slide and to verify the formula $1/F=1/f_1 + 1/f_2-x/f_1f_2$
3.	To determine the specific rotation of cane sugar solution using half shade polarimeter.
4.	To determine the energy band gap of a semiconductor [Ge] using a PN junction diode.
5.	To verify Stefan's law by electrical method.
6.	To determine the resistance per unit length and specific resistance of the material of a given wire using Carey Foster's Bridge.
7.	To calibrate a given voltmeter by means of a potentiometer.
8.	To calibrate a given ammeter by means of a potentiometer.
9.	To plot a graph showing the variation of magnetic field with distance along the axis of a circular coil carrying current and to estimate from it the radius of the coil.
10.	To determine the coefficient of viscosity of water, by Poiseuille's method.

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Course Name	Engineering Physics Lab
Course Code	KAS101 P
Batch	2019 2022
Semester	1
Session	2019 2020
L:T:P	0.0.3

Course Outcomes(CO's)

Number of Course Outcomes 5

At the end of course, Students will be able to :

Course Code	CO		Course Outcomes(COs)	Congnitive Levels
KAS101 P	CO1	KAS101 P.1	Ability to define and explain error estimation, Proportional error calculation	Understand
	CO2	KAS101 P.2	Able to apply the law of wheat stone bridge to calibrate the potentiometer and to find out the specific resistance of a given wire using Carey Foster Bridge.	Apply
	CO3	KAS101 P.3	Able to apply the knowledge of law of electronics in order to understand the use of modern engineering physics tools and techniques, including laboratory	Apply
	CO4	KAS101 P.4	concept in nodal slide.	Understand
	CO5	KAS101 P.5	By using the principle of viscosity students can determine the viscosity of different liquid in order to find its utilization in different aspect.	Apply

Targets for CO Attainments

Level	Marks
3	≥ 80%
2	≥ 60% and < 80%
1	< 60%

Aim is to attain level 3

Course Code	CO		% of students getting marks ≥ 80%
KAS101 P	CO1	KAS101 P.1	75
	CO2	KAS101 P.2	75
	CO3	KAS101 P.3	75
	CO4	KAS101 P.4	75
	CO5	KAS101 P.5	75

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Program Outcomes (PO's)

Engineering Graduates will be able to :

PO1	**Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	**Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and
PO3	**Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety,and the cultural,societal, and environmental considerations.
PO4	**Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data,and synthesis of the information to
PO5	**Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of
PO6	**The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal,health,safety,legal and cultural issues and the consequent responsibilities relevant to the
PO7	**Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable
PO8	**Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9	**Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams,and in multidisciplinary settings.
PO10	**Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations,and give and receive clear instructions.
PO11	**Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO12	**Life-long learning:** Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

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Course Name	Engineering Physics Lab
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Batch	2019 2022
Semester	1
Session	2019 2020
L:T:P	0.0.3

CO-PO Mapping

Course Code	CO		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
KAS101 P	CO1	KAS101 P.1	3	1		3	2				3			
	CO2	KAS101 P.2	3	2		2	2				2			
	CO3	KAS101 P.3	3	2			2				2			
	CO4	KAS101 P.4	3	2			2				2			
	CO5	KAS101 P.5	3	2		2	2				2			2
Mapping Strength		KAS101 P	3	1.8		2.3	2				2.2			2

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Assessment using Continuous Internal Examination (CIE)

		High	Medium	Low	
Continuous Internal Evaluation	R1: Conduction (5 Marks)	Executed the Experiment/program with desired Input/output (5 Marks)	Partially executed the Experiment/program with Partial Input/output (1 - 4 Marks)	Experiment/program with desired Input/output was not executed (0 Marks)	Every Lab session
	R2: File record (5 Marks)	Completed Record was submitted (5 Marks)	Record was submitted but having minor mistakes (3 - 4 Marks)	Record was submitted but having major mistakes or not submitted at all (0 -2 Marks)	
	R3: Regularity (5 Marks)	Attended every lab session (5 Marks)	Attended lab sessions but missed few of them (3 - 4 Marks)	Not regular at all in labs (0 - 2 Marks)	
Internal lab Examination*	R4: Execution (15Marks)				At the end of semester
	R5: Write-up (5 Marks)				
	R6: Viva voce (5 Questions 5 marks Each, i.e, 25 Marks scaled to 05 marks)				

* Lab Internal Examination is taken of 25 Marks and scaled to 10 marks

Assessment using Semester End Examination (SEE)

	SEE
Marks	25
CO1	Y
CO2	Y
CO3	Y
CO4	Y
CO5	Y

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CO Attainment using Continuous Internal Examination (CIE)

			Lab Continuous Evaluation			Lab Internal Examination								
			R1: Conduction	R2: File Record	R3: Regularity	R4: Execution	R5: Write-Up	R6: Viva Voce						Internal Marks
								CO1	CO2	CO3	CO4	CO5		
S.No.	Univ. Roll No.	Name Max Marks	5	5	5	15	10	5	5	5	5	5		25
1	1900820400002	ARUN YADAV	3	5	3	10	10	4	0	5	2	5	18	18
2	1900820400003	AVEE PANDEY	5	5	5	15	10	3	5	3	5	5	24	24
3	1900820400004	CHANDRA PRAKASH	5	5	5	15	10	5	5	3	3	5	24	24
4	1900820400005	DEEPAK SAINI	5	5	2	10	10	0	5	0	5	5	19	19
5	1900820400007	HARISH PAL	5	5	5	15	10	3	5	3	5	5	24	24
6	1900820400008	HIMANSHU SINGH	5	5	5	15	10	5	5	5	5	5	24	25
7	1900820400009	HITESH CHAUHAN	3	5	4	10	6	5	5	5	0	5	19	19
8	1900820400011	KAUSHAL NAGAR	5	5	5	15	10	3	5	3	5	5	24	24
9	1900820400013	MANIKYA AGARWAL	5	5	5	15	10	5	5	3	5	3	24	24
10	1900820400014	MOHD. AASIM	5	5	3	10	10	3	5	4	5	4	21	21
11	1900820400015	MOHD. SAIF	5	5	5	15	10	3	3	3	3	5	23	23
12	1900820400016	NOOR ALAM	3	5	5	8	8	5	0	5	0	5	19	19
13	1900820400017	PANDIT SWARNIM SHARMA	4	5	3	10	8	5	5	0	5	0	19	19
14	1900820400018	GAURAV KUMAR	4	5	4	10	9	0	0	5	0	5	19	19
15	1900820400019	HEMENDRA SINGH	5	5	5	15	10	5	5	5	5	5	25	25
16	1900820400020	MANVEER SINGH BEDI	5	5	5	15	10	5	0	0	5	5	23	23
17	1900820400021	MOHD. ANAS	5	5	5	15	10	5	5	5	0	5	24	24
18	1900820400022	MOHD. SHAHRUKH	5	5	3	10	10	3	5	3	5	5	21	21

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19	1900820400023	MOHAMMAD DANISH	5	5	4	10	10	3	5	0	3	5	21	21
20	1900820400024	AAYUSHMANN PARASHAR	3	5	4	10	10	5	0	5	5	0	19	19
21	1900820400025	ARIN SINGH	5	5	5	10	10	5	5	0	0	5	22	22
22	1900820400026	BHOOMIKA RANA	5	5	5	15	10	0	5	5	5	0	23	23
23	1900820400027	HARSHIT KUMAR KHARDONIA	5	5	5	15	10	5	5	5	0	5	24	24
24	1900820400028	KANISHKA SINGH	5	5	5	10	10	5	4	4	5	4	23	23
25	1900820400029	KAUSHIK CHAUHAN	5	5	3	10	8	0	4	0	5	5	19	19
26	1900820400031	ARVIND CHAUHAN	5	5	4	10	10	3	5	0	5	0	21	21
27	1900820400032	ASHISH RANA	5	5	5	10	10	0	5	5	0	5	22	22
28	1900820400033	BAWAR HUSAIN	5	5	5	15	10	0	5	5	5	5	24	24
29	1900820400034	DHARMENDRA	5	5	4	10	10	5	5	0	5	0	21	21
30	1900820400035	DIVYANSHU SHARMA	5	5	5	15	10	0	5	5	5	5	24	24
31	1900820000001	KAVINDRA SINGH	5	5	3	10	10	0	5	0	5	0	19	19
32	1900820000002	PREET SHARMA	5	4	5	10	10	5	0	5	0	5	21	21
33	1900820000004	UNNATI GUPTA	5	5	3	10	10	5	5	0	5	0	20	20
34	1900820000005	URVASHI RASTOGI	3	5	3	10	10	5	5	5	0	5	19	19
35	1900820000006	UTKARSH KAUSHIK	5	5	5	15	10	5	0	0	5	5	23	23
36	1900820000007	UTKARSH MISHRA	5	5	5	10	10	0	5	5	5	5	23	23
37	1900820000008	UTKARSH TOMAR	5	5	3	10	10	5	5	5	5	5	22	22
38	1900820000009	UTKARSH TYAGI	5	5	3	10	10	5	5	5	3	5	22	22
39	1900820000010	VAIBHAV DIXIT	5	5	3	15	10	5	5	0	5	5	22	22
40	1900820000012	VAISHALI MATHUR	5	5	5	15	10	5	0	5	0	5	23	23
41	1900820000013	VANSHIKA SINGH	5	5	5	15	10	0	5	5	5	5	24	24
42	1900820200001	VEERPAL SINGH	4	5	3	10	10	0	5	5	0	5	19	19
43	1900820200002	VIDIT AGARWAL	5	5	5	15	10	5	0	5	5	0	23	23
44	1900820200003	YASHIKA ROHILLA	5	5	5	15	10	5	5	5	5	5	25	25
45	1900820200004	ARPIT VERMA	5	5	4	15	10	3	5	5	3	5	23	23
46	1900820200005	VISHAL KUMAR	5	5	5	15	10	5	5	5	5	5	25	25
47	1900820200006	PIYUSH SHARMA	5	5	3	10	10	5	5	0	5	0	20	20
48	1900820200007	PANKAJ KUMAR	5	5	5	10	10	0	5	5	5	5	23	23
49	1900820200008	PRANAV K SINGH	3	5	5	10	10	5	0	5	5	5	21	21
50	1900820200009	PRASHANT TIWARI	5	5	5	15	10	0	5	5	0	5	23	23

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M.I.T., Moradabad

51	1900820200011	PRYANSH KTYAGI	4	5	3	10	10	5	0	5	0	5	19	19
52	1900820200012	RATNESH K ARYA	5	5	5	15	10	5	0	5	5	0	23	23
53	1900820310001	RIZWAN ALI	3	5	5	10	10	0	5	0	0	5	19	19
54	1900820310002	SAAD ULLAH	5	5	5	15	10	5	0	5	5	0	23	23
55	1900820310003	SAURABH KUMAR	5	5	5	15	10	0	5	5	0	5	23	23
56	1900820310004	SHAHROZ HUSSAIN	4	5	4	10	8	0	5	0	5	0	19	19
57	1900820310005	SHIVA GUPTA	5	5	5	15	10	5	5	5	0	5	24	24
58	1900820310006	SIDDHARTH BANSAL	5	5	5	15	10	5	0	5	5	5	24	24
59	1900820310007	SIMRAN	5	5	4	10	10	0	5	0	5	5	21	21
60	1900820310008	SYED ZAYYAN ALI	5	5	5	15	10	5	0	5	5	0	23	23
61	1900820310009	UDAY VERMA	5	5	5	15	10	0	5	0	0	5	22	22
62	1900820310010	VAIBHAV K SINGH	5	5	3	10	10	5	0	5	5	0	20	20
63	1900820310011	VINAYAK VERMA	5	5	5	10	10	0	5	0	5	5	22	22
64	1900820310012	YUVRAJ KHANNA	5	5	5	15	10	5	0	5	5	0	23	23
65	1900820310013	PRIYANSHU KUMAR	4	5	4	15	10	0	5	0	5	0	20	20
66	1900820310014	SOAYAB ALAM	5	5	5	15	10	5	0	5	0	5	23	23
67	1900820310015	SONU ARYA	3	5	5	10	10	0	5	0	5	0	19	19
68	1808210035	SUMIT KUMAR	5	5	4	10	10	0	5	0	0	5	20	20
69	1808210112	VISHAL SINDHU	5	5	3	10	8	3	3	3	3	3	20	20
70	1808210169	RISHI SAXENA	4	5	4	15	8	0	5	0	5	0	20	20
71	1900820100154	SHEETAL SINGH	5	5	5	15	10	5	0	5	5	5	24	24
72	1900820100155	SUDHEER KUMAR	5	5	5	15	10	5	5	0	5	5	24	24
73	1900820100156	VIKAS PAL	4	5	3	10	10	0	5	5	0	5	19	19
74	1900820100157	VINAY DEEP	5	5	5	15	10	0	5	5	5	5	24	24
75	1900820100158	SACHIN KUMAR	5	5	5	15	10	5	5	5	5	0	24	24
76	1900820100159	SAURABH SHARMA	5	5	5	15	10	5	5	5	0	5	24	24
77	1900820100160	SHIVAM SINGH	5	5	3	10	10	5	0	5	0	5	20	20
78	1900820100161	SHIVANSH CHAUHAN	5	5	5	15	10	5	5	0	5	5	24	24
79	1900820100162	SHUBHI CHAUDHARY	5	5	5	15	10	5	5	5	0	5	24	24
80	1900820100163	VAIBHAV TOMAR	5	5	5	15	10	5	5	0	5	5	24	24
81	1900820100164	VASU AGARWAL	5	5	5	15	10	5	0	5	5	5	24	24
82	1900820100165	WASEEM AKRAM	5	5	4	15	10	5	5	5	5	0	23	23
83	1900820100166	VINAY SHRESTHA	5	5	5	15	10	5	5	5	5	0	24	24
84	1900820100168	VISHAKHA CHAUDHARY	5	5	4	10	10	5	0	5	0	5	21	21

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85	1900820100169	VISHAL SHARMA	5	5	5	15	10	0	5	5	5	0	23	23
86	1900820100170	VISHNU KUMAR	5	5	5	10	7	5	0	5	5	5	22	22
87	1900820100171	VISHWAS GUMAN	5	5	5	10	10	0	5	0	5	0	21	21
88	1900820100172	YASH KUMAR	5	5	5	15	10	5	5	5	0	5	24	24
89	1900820100173	YOGENDRA KUMAR	5	5	4	10	6	5	0	5	0	0	19	19
90	1900820100174	YOGENDRA MISHRA	5	5	5	10	10	0	0	5	0	5	21	21

Course Code	CO	CO Attained (% of students getting ≥ 80% marks)	CO Attained (On Scale of 3)
KAS101 P	CO1	62.22	1.87
	CO2	70	2.1
	CO3	68.89	2.07
	CO4	65.56	1.97
	CO5	72.22	2.17

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Course Code	KAS101 P
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CO Attainment using Continuous

			CO1					CO2					CO3					CO4					CO5				
S.No.	Univ. Roll No.	Name Max Marks	Total Marks Obtained	Total Marks Attempted	>=80%	Level (3,2,1)	Y/N	Total Marks Obtained	Total Marks Attempted	>=80%	Level (3,2,1)	Y/N	Total Marks Obtained	Total Marks Attempted	>=80%	Level (3,2,1)	Y/N	Total Marks Obtained	Total Marks Attempted	>=80%	Level (3,2,1)	Y/N	Total Marks Obtained	Total Marks Attempted	>=80%	Level (3,2,1)	Y/N
1	1900820400002	ARUN YADAV	10.2	13	78.46	2	N	6.2	13	47.69	1	N	11.2	13	86.15	3	Y	8.2	13	63.08	2	N	11.2	13	86.15	3	Y
2	1900820400003	AVEE PANDEY	11	13	84.62	3	Y	13	13	100	3	Y	11	13	84.62	3	Y	13	13	100	3	Y	13	13	100	3	Y
3	1900820400004	CHANDRA PRAKASH	13	13	100	3	Y	13	13	100	3	Y	11	13	84.62	3	Y	11	13	84.62	3	Y	13	13	100	3	Y
4	1900820400005	DEEPAK SAINI	6.4	13	49.23	1	N	11.4	13	87.69	3	Y	6.4	13	49.23	1	N	11.4	13	87.69	3	Y	11.4	13	87.69	3	Y
5	1900820400007	HARISH PAL	11	13	84.62	3	Y	13	13	100	3	Y	11	13	84.62	3	Y	13	13	100	3	Y	13	13	100	3	Y
6	1900820400008	HIMANSHU SINGH	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y
7	1900820400009	HITESH CHAUHAN	10.6	13	81.54	3	Y	10.6	13	81.54	3	Y	10.6	13	81.54	3	Y	5.6	13	43.08	1	N	10.6	13	81.54	3	Y
8	1900820400011	KAUSHAL NAGAR	11	13	84.62	3	Y	13	13	100	3	Y	11	13	84.62	3	Y	13	13	100	3	Y	13	13	100	3	Y
9	1900820400013	MANIKYA AGARWAL	13	13	100	3	Y	13	13	100	3	Y	11	13	84.62	3	Y	13	13	100	3	Y	11	13	84.62	3	Y
10	1900820400014	MOHD. AASIM	9.6	13	73.85	2	N	11.6	13	89.23	3	Y	10.6	13	81.54	3	Y	11.6	13	89.23	3	Y	10.6	13	81.54	3	Y
11	1900820400015	MOHD. SAIF	11	13	84.62	3	Y	11	13	84.62	3	Y	11	13	84.62	3	Y	11	13	84.62	3	Y	13	13	100	3	Y
12	1900820400016	NOOR ALAM	10.8	13	83.08	3	Y	5.8	13	44.62	1	N	10.8	13	83.08	3	Y	5.8	13	44.62	1	N	10.8	13	83.08	3	Y
13	1900820400017	PANDIT SWARNIM SHARMA	11	13	84.62	3	Y	11	13	84.62	3	Y	6	13	46.15	1	N	11	13	84.62	3	Y	6	13	46.15	1	N
14	1900820400018	GAURAV KUMAR	6.4	13	49.23	1	N	6.4	13	49.23	1	N	11.4	13	87.69	3	Y	6.4	13	49.23	1	N	11.4	13	87.69	3	Y
15	1900820400019	HEMENDRA SINGH	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y
16	1900820400020	MANVEER SINGH BEDI	13	13	100	3	Y	8	13	61.54	2	N	8	13	61.54	2	N	13	13	100	3	Y	13	13	100	3	Y
17	1900820400021	MOHD. ANAS	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y	8	13	61.54	2	N	13	13	100	3	Y
18	1900820400022	MOHD. SHAHRUKH	9.6	13	73.85	2	N	11.6	13	89.23	3	Y	9.6	13	73.85	2	N	11.6	13	89.23	3	Y	11.6	13	89.23	3	Y
19	1900820400023	MOHAMMAD DANISH	9.8	13	75.38	2	N	11.8	13	90.77	3	Y	6.8	13	52.31	1	N	9.8	13	75.38	2	N	11.8	13	90.77	3	Y
20	1900820400024	AAYUSHMANN PARASHAR	11.4	13	87.69	3	Y	6.4	13	49.23	1	N	11.4	13	87.69	3	Y	11.4	13	87.69	3	Y	6.4	13	49.23	1	N
21	1900820400025	ARIN SINGH	12	13	92.31	3	Y	12	13	92.31	3	Y	7	13	53.85	1	N	7	13	53.85	1	N	12	13	92.31	3	Y
22	1900820400026	BHOOMIKA RANA	8	13	61.54	2	N	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y	8	13	61.54	2	N
23	1900820400027	HARSHIT KUMAR KHARDONIA	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y	8	13	61.54	2	N	13	13	100	3	Y
24	1900820400028	KANISHKA SINGH	12	13	92.31	3	Y	11	13	84.62	3	Y	11	13	84.62	3	Y	12	13	92.31	3	Y	11	13	84.62	3	Y
25	1900820400029	KAUSHIK CHAUHAN	6.2	13	47.69	1	N	10.2	13	78.46	2	N	6.2	13	47.69	1	N	11.2	13	86.15	3	Y	11.2	13	86.15	3	Y
26	1900820400031	ARVIND CHAUHAN	9.8	13	75.38	2	N	11.8	13	90.77	3	Y	6.8	13	52.31	1	N	11.8	13	90.77	3	Y	6.8	13	52.31	1	N
27	1900820400032	ASHISH RANA	7	13	53.85	1	N	12	13	92.31	3	Y	12	13	92.31	3	Y	7	13	53.85	1	N	12	13	92.31	3	Y
28	1900820400033	BAWAR HUSAIN	8	13	61.54	2	N	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y
29	1900820400034	DHARMENDRA	11.8	13	90.77	3	Y	11.8	13	90.77	3	Y	6.8	13	52.31	1	N	11.8	13	90.77	3	Y	6.8	13	52.31	1	N
30	1900820400035	DIVYANSHU SHARMA	8	13	61.54	2	N	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y
31	1900820000001	KAVINDRA SINGH	6.6	13	50.77	1	N	11.6	13	89.23	3	Y	6.6	13	50.77	1	N	11.6	13	89.23	3	Y	6.6	13	50.77	1	N
32	1900820000002	PREET SHARMA	11.8	13	90.77	3	Y	6.8	13	52.31	1	N	11.8	13	90.77	3	Y	6.8	13	52.31	1	N	11.8	13	90.77	3	Y
33	1900820000004	UNNATI GUPTA	11.6	13	89.23	3	Y	11.6	13	89.23	3	Y	6.6	13	50.77	1	N	11.6	13	89.23	3	Y	6.6	13	50.77	1	N
34	1900820000005	URVASHI RASTOGI	11.2	13	86.15	3	Y	11.2	13	86.15	3	Y	11.2	13	86.15	3	Y	6.2	13	47.69	1	N	11.2	13	86.15	3	Y
35	1900820000006	UTKARSH KAUSHIK	13	13	100	3	Y	8	13	61.54	2	N	8	13	61.54	2	N	13	13	100	3	Y	13	13	100	3	Y
36	1900820000007	UTKARSH MISHRA	7	13	53.85	1	N	12	13	92.31	3	Y	12	13	92.31	3	Y	12	13	92.31	3	Y	12	13	92.31	3	Y
37	1900820000008	UTKARSH TOMAR	11.6	13	89.23	3	Y	11.6	13	89.23	3	Y	11.6	13	89.23	3	Y	11.6	13	89.23	3	Y	11.6	13	89.23	3	Y
38	1900820000009	UTKARSH TYAGI	11.6	13	89.23	3	Y	11.6	13	89.23	3	Y	11.6	13	89.23	3	Y	9.6	13	73.85	2	N	11.6	13	89.23	3	Y
39	1900820000010	VAIBHAV DIXIT	12.6	13	96.92	3	Y	12.6	13	96.92	3	Y	7.6	13	58.46	1	N	12.6	13	96.92	3	Y	12.6	13	96.92	3	Y
40	1900820000012	VAISHALI MATHUR	13	13	100	3	Y	8	13	61.54	2	N	13	13	100	3	Y	8	13	61.54	2	N	13	13	100	3	Y
41	1900820000013	VANSHIKA SINGH	8	13	61.54	2	N	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y
42	1900820200001	VEERPAL SINGH	6.4	13	49.23	1	N	11.4	13	87.69	3	Y	11.4	13	87.69	3	Y	6.4	13	49.23	1	N	11.4	13	87.69	3	Y
43	1900820200002	VIDIT AGARWAL	13	13	100	3	Y	8	13	61.54	2	N	13	13	100	3	Y	13	13	100	3	Y	8	13	61.54	2	N
44	1900820200003	YASHIKA ROHILLA	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y
45	1900820200004	ARPIT VERMA	10.8	13	83.08	3	Y	12.8	13	98.46	3	Y	12.8	13	98.46	3	Y	10.8	13	83.08	3	Y	12.8	13	98.46	3	Y

Dr. Manish Saxena
HOD (ASH)
M.I.T., Moradabad

46	1900820200005	VISHAL KUMAR	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y
47	1900820200006	PIYUSH SHARMA	11.6	13	89.23	3	Y	11.6	13	89.23	3	Y	6.6	13	50.77	1	N	11.6	13	89.23	3	Y	6.6	13	50.77	1	N
48	1900820200007	PANKAJ KUMAR	7	13	53.85	1	N	12	13	92.31	3	Y	12	13	92.31	3	Y	12	13	92.31	3	Y	12	13	92.31	3	Y
49	1900820200008	PRANAV K SINGH	11.6	13	89.23	3	Y	6.6	13	50.77	1	N	11.6	13	89.23	3	Y	11.6	13	89.23	3	Y	11.6	13	89.23	3	Y
50	1900820200009	PRASHANT TIWARI	8	13	61.54	2	N	13	13	100	3	Y	13	13	100	3	Y	8	13	61.54	2	N	13	13	100	3	Y
51	1900820200011	PRYANSH KTYAGI	11.4	13	87.69	3	Y	6.4	13	49.23	1	N	11.4	13	87.69	3	Y	6.4	13	49.23	1	N	11.4	13	87.69	3	Y
52	1900820200012	RATNESH K ARYA	13	13	100	3	Y	8	13	61.54	2	N	13	13	100	3	Y	13	13	100	3	Y	8	13	61.54	2	N
53	1900820310001	RIZWAN ALI	6.6	13	50.77	1	N	11.6	13	89.23	3	Y	6.6	13	50.77	1	N	6.6	13	50.77	1	N	11.6	13	89.23	3	Y
54	1900820310002	SAAD ULLAH	13	13	100	3	Y	8	13	61.54	2	N	13	13	100	3	Y	13	13	100	3	Y	8	13	61.54	2	N
55	1900820310003	SAURABH KUMAR	8	13	61.54	2	N	13	13	100	3	Y	13	13	100	3	Y	8	13	61.54	2	N	13	13	100	3	Y
56	1900820310004	SHAHROZ HUSSAIN	6.2	13	47.69	1	N	11.2	13	86.15	3	Y	6.2	13	47.69	1	N	11.2	13	86.15	3	Y	6.2	13	47.69	1	N
57	1900820310005	SHIVA GUPTA	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y	8	13	61.54	2	N	13	13	100	3	Y
58	1900820310006	SIDDHARTH BANSAL	13	13	100	3	Y	8	13	61.54	2	N	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y
59	1900820310007	SIMRAN	6.8	13	52.31	1	N	11.8	13	90.77	3	Y	6.8	13	52.31	1	N	11.8	13	90.77	3	Y	11.8	13	90.77	3	Y
60	1900820310008	SYED ZAYYAN ALI	13	13	100	3	Y	8	13	61.54	2	N	13	13	100	3	Y	13	13	100	3	Y	8	13	61.54	2	N
61	1900820310009	UDAY VERMA	8	13	61.54	2	N	13	13	100	3	Y	8	13	61.54	2	N	8	13	61.54	2	N	13	13	100	3	Y
62	1900820310010	VAIBHAV K SINGH	11.6	13	89.23	3	Y	6.6	13	50.77	1	N	11.6	13	89.23	3	Y	11.6	13	89.23	3	Y	6.6	13	50.77	1	N
63	1900820310011	VINAYAK VERMA	7	13	53.85	1	N	12	13	92.31	3	Y	7	13	53.85	1	N	12	13	92.31	3	Y	12	13	92.31	3	Y
64	1900820310012	YUVRAJ KHANNA	13	13	100	3	Y	8	13	61.54	2	N	13	13	100	3	Y	13	13	100	3	Y	8	13	61.54	2	N
65	1900820310013	PRIYANSHU KUMAR	7.6	13	58.46	1	N	12.6	13	96.92	3	Y	7.6	13	58.46	1	N	12.6	13	96.92	3	Y	7.6	13	58.46	1	N
66	1900820310014	SOAYAB ALAM	13	13	100	3	Y	8	13	61.54	2	N	13	13	100	3	Y	8	13	61.54	2	N	13	13	100	3	Y
67	1900820310015	SONU ARYA	6.6	13	50.77	1	N	11.6	13	89.23	3	Y	6.6	13	50.77	1	N	11.6	13	89.23	3	Y	6.6	13	50.77	1	N
68	1808210035	SUMIT KUMAR	6.8	13	52.31	1	N	11.8	13	90.77	3	Y	6.8	13	52.31	1	N	6.8	13	52.31	1	N	11.8	13	90.77	3	Y
69	1808210112	VISHAL SINDHU	9.2	13	70.77	2	N	9.2	13	70.77	2	N	9.2	13	70.77	2	N	9.2	13	70.77	2	N	9.2	13	70.77	2	N
70	1808210169	RISHI SAXENA	7.2	13	55.38	1	N	12.2	13	93.85	3	Y	7.2	13	55.38	1	N	12.2	13	93.85	3	Y	7.2	13	55.38	1	N
71	1900820100154	SHEETAL SINGH	13	13	100	3	Y	8	13	61.54	2	N	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y
72	1900820100155	SUDHEER KUMAR	13	13	100	3	Y	13	13	100	3	Y	8	13	61.54	2	N	13	13	100	3	Y	13	13	100	3	Y
73	1900820100156	VIKAS PAL	6.4	13	49.23	1	N	11.4	13	87.69	3	Y	11.4	13	87.69	3	Y	6.4	13	49.23	1	N	11.4	13	87.69	3	Y
74	1900820100157	VINAY DEEP	8	13	61.54	2	N	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y
75	1900820100158	SACHIN KUMAR	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y	8	13	61.54	2	N
76	1900820100159	SAURABH SHARMA	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y	8	13	61.54	2	N	13	13	100	3	Y
77	1900820100160	SHIVAM SINGH	11.6	13	89.23	3	Y	6.6	13	50.77	1	N	11.6	13	89.23	3	Y	6.6	13	50.77	1	N	11.6	13	89.23	3	Y
78	1900820100161	SHIVANSH CHAUHAN	13	13	100	3	Y	13	13	100	3	Y	8	13	61.54	2	N	13	13	100	3	Y	13	13	100	3	Y
79	1900820100162	SHUBHI CHAUDHARY	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y	8	13	61.54	2	N	13	13	100	3	Y
80	1900820100163	VAIBHAV TOMAR	13	13	100	3	Y	13	13	100	3	Y	8	13	61.54	2	N	13	13	100	3	Y	13	13	100	3	Y
81	1900820100164	VASU AGARWAL	13	13	100	3	Y	8	13	61.54	2	N	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y
82	1900820100165	WASEEM AKRAM	12.8	13	98.46	3	Y	12.8	13	98.46	3	Y	12.8	13	98.46	3	Y	12.8	13	98.46	3	Y	7.8	13	60	2	N
83	1900820100166	VINAY SHRESTHA	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y	8	13	61.54	2	N
84	1900820100168	VISHAKHA CHAUDHARY	11.8	13	90.77	3	Y	6.8	13	52.31	1	N	11.8	13	90.77	3	Y	6.8	13	52.31	1	N	11.8	13	90.77	3	Y
85	1900820100169	VISHAL SHARMA	8	13	61.54	2	N	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y	8	13	61.54	2	N
86	1900820100170	VISHNU KUMAR	11.4	13	87.69	3	Y	6.4	13	49.23	1	N	11.4	13	87.69	3	Y	11.4	13	87.69	3	Y	11.4	13	87.69	3	Y
87	1900820100171	VISHWAS GUMAN	7	13	53.85	1	N	12	13	92.31	3	Y	7	13	53.85	1	N	12	13	92.31	3	Y	7	13	53.85	1	N
88	1900820100172	YASH KUMAR	13	13	100	3	Y	13	13	100	3	Y	13	13	100	3	Y	8	13	61.54	2	N	13	13	100	3	Y
89	1900820100173	YOGENDRA KUMAR	11	13	84.62	3	Y	6	13	46.15	1	N	11	13	84.62	3	Y	6	13	46.15	1	N	6	13	46.15	1	N
90	1900820100174	YOGENDRA MISHRA	7	13	53.85	1	N	7	13	53.85	1	N	12	13	92.31	3	Y	7	13	53.85	1	N	12	13	92.31	3	Y

No. of students scoring	3	56
	2	15
	1	19
	Average	2.41

No. of students scoring	3	63
	2	14
	1	13
	Average	2.56

No. of students scoring	3	62
	2	8
	1	20
	Average	2.47

No. of students scoring	3	59
	2	15
	1	16
	Average	2.38

No. of students scoring	3	65
	2	11
	1	14
	Average	2.57

Dr. Manish Saxena
HOD (ASH)
M.I.T., Moradabad

Course Name	Engineering Physics Lab
Course Code	KAS101 P
Batch	2019 2022
Semester	1
Session	2019 2020
L:T:P	0.0.3

CO Attainment using Semester End Examination (SEE)

			SEE			
S.No.	Univ. Roll No.	Name Max Marks	25	>=80%	Level (3,2,1)	Y/N
1	1900820400002	ARUN YADAV	23	92	3	Y
2	1900820400003	AVEE PANDEY	22	88	3	Y
3	1900820400004	CHANDRA PRAKASH	24	96	3	Y
4	1900820400005	DEEPAK SAINI	21	84	3	Y
5	1900820400007	HARISH PAL	22	88	3	Y
6	1900820400008	HIMANSHU SINGH	23	92	3	Y
7	1900820400009	HITESH CHAUHAN	20	80	3	Y
8	1900820400011	KAUSHAL NAGAR	22	88	3	Y
9	1900820400013	MANIKYA AGARWAL	21	84	3	Y
10	1900820400014	MOHD. AASIM	22	88	3	Y
11	1900820400015	MOHD. SAIF	21	84	3	Y
12	1900820400016	NOOR ALAM	22	88	3	Y
13	1900820400017	PANDIT SWARNIM SHARMA	23	92	3	Y
14	1900820400018	GAURAV KUMAR	18	72	2	N
15	1900820400019	HEMENDRA SINGH	21	84	3	Y
16	1900820400020	MANVEER SINGH BEDI	20	80	3	Y
17	1900820400021	MOHD. ANAS	21	84	3	Y
18	1900820400022	MOHD. SHAHRUKH	18	72	2	N
19	1900820400023	MOHAMMAD DANISH	18	72	2	N
20	1900820400024	AAYUSHMANN PARASHAR	22	88	3	Y
21	1900820400025	ARIN SINGH	21	84	3	Y
22	1900820400026	BHOOMIKA RANA	22	88	3	Y
23	1900820400027	HARSHIT KUMAR KHARDONIA	20	80	3	Y
24	1900820400028	KANISHKA SINGH	23	92	3	Y
25	1900820400029	KAUSHIK CHAUHAN	21	84	3	Y
26	1900820400031	ARVIND CHAUHAN	23	92	3	Y
27	1900820400032	ASHISH RANA	21	84	3	Y
28	1900820400033	BAWAR HUSAIN	24	96	3	Y
29	1900820400034	DHARMENDRA	21	84	3	Y
30	1900820400035	DIVYANSHU SHARMA	22	88	3	Y

Dr. Manish Saxena
HOD (ASH)
M.I.T., Moradabad

31	1900820000001	KAVINDRA SINGH	20	80	3	Y
32	1900820000002	PREET SHARMA	20	80	3	Y
33	1900820000004	UNNATI GUPTA	20	80	3	Y
34	1900820000005	URVASHI RASTOGI	22	88	3	Y
35	1900820000006	UTKARSH KAUSHIK	22	88	3	Y
36	1900820000007	UTKARSH MISHRA	21	84	3	Y
37	1900820000008	UTKARSH TOMAR	22	88	3	Y
38	1900820000009	UTKARSH TYAGI	22	88	3	Y
39	1900820000010	VAIBHAV DIXIT	22	88	3	Y
40	1900820000012	VAISHALI MATHUR	22	88	3	Y
41	1900820000013	VANSHIKA SINGH	23	92	3	Y
42	1900820200001	VEERPAL SINGH	20	80	3	Y
43	1900820200002	VIDIT AGARWAL	23	92	3	Y
44	1900820200003	YASHIKA ROHILLA	22	88	3	Y
45	1900820200004	ARPIT VERMA	22	88	3	Y
46	1900820200005	VISHAL KUMAR	24	96	3	Y
47	1900820200006	PIYUSH SHARMA	20	80	3	Y
48	1900820200007	PANKAJ KUMAR	18	72	2	N
49	1900820200008	PRANAV K SINGH	18	72	2	N
50	1900820200009	PRASHANT TIWARI	21	84	3	Y
51	1900820200011	PRYANSH KTYAGI	22	88	3	Y
52	1900820200012	RATNESH K ARYA	24	96	3	Y
53	1900820310001	RIZWAN ALI	21	84	3	Y
54	1900820310002	SAAD ULLAH	23	92	3	Y
55	1900820310003	SAURABH KUMAR	23	92	3	Y
56	1900820310004	SHAHROZ HUSSAIN	18	72	2	N
57	1900820310005	SHIVA GUPTA	22	88	3	Y
58	1900820310006	SIDDHARTH BANSAL	24	96	3	Y
59	1900820310007	SIMRAN	22	88	3	Y
60	1900820310008	SYED ZAYYAN ALI	24	96	3	Y
61	1900820310009	UDAY VERMA	20	80	3	Y
62	1900820310010	VAIBHAV K SINGH	24	96	3	Y
63	1900820310011	VINAYAK VERMA	21	84	3	Y
64	1900820310012	YUVRAJ KHANNA	23	92	3	Y
65	1900820310013	PRIYANSHU KUMAR	21	84	3	Y
66	1900820310014	SOAYAB ALAM	20	80	3	Y
67	1900820310015	SONU ARYA	18	72	2	N
68	1808210035	SUMIT KUMAR	19	76	2	N
69	1808210112	VISHAL SINDHU	18	72	2	N
70	1808210169	RISHI SAXENA	18	72	2	N
71	1900820100154	SHEETAL SINGH	24	96	3	Y
72	1900820100155	SUDHEER KUMAR	24	96	3	Y
73	1900820100156	VIKAS PAL	19	76	2	N
74	1900820100157	VINAY DEEP	24	96	3	Y
75	1900820100158	SACHIN KUMAR	24	96	3	Y
76	1900820100159	SAURABH SHARMA	23	92	3	Y

Dr. Manish Saxena
HOD (ASH)
M.I.T., Moradabad

77	1900820100160	SHIVAM SINGH	18	72	2	N
78	1900820100161	SHIVANSH CHAUHAN	24	96	3	Y
79	1900820100162	SHUBHI CHAUDHARY	24	96	3	Y
80	1900820100163	VAIBHAV TOMAR	22	88	3	Y
81	1900820100164	VASU AGARWAL	24	96	3	Y
82	1900820100165	WASEEM AKRAM	23	92	3	Y
83	1900820100166	VINAY SHRESTHA	24	96	3	Y
84	1900820100168	VISHAKHA CHAUDHARY	21	84	3	Y
85	1900820100169	VISHAL SHARMA	23	92	3	Y
86	1900820100170	VISHNU KUMAR	20	80	3	Y
87	1900820100171	VISHWAS GUMAN	20	80	3	Y
88	1900820100172	YASH KUMAR	24	96	3	Y
89	1900820100173	YOGENDRA KUMAR	20	80	3	Y
90	1900820100174	YOGENDRA MISHRA	22	88	3	Y

No. of students scoring	3	78
	2	12
	1	0
	Average	2.87

Course Code	CO	CO Attained (% of students getting ≥ 80% marks)	CO Attained (On Scale of 3)
KAS101 P	CO1	86.67	2.6
	CO2	86.67	2.6
	CO3	86.67	2.6
	CO4	86.67	2.6
	CO5	86.67	2.6

Dr. Manish Saxena
HOD (ASH)
M.I.T., Moradabad

Course Name	Engineering Physics Lab
Course Code	KAS101 P
Batch	2019 2022
Semester	1
Session	2019 2020
L:T:P	0.0.3

CO Attainment and Analysis

CO Attainment using Continuous Internal Examination (CIE)

Course Code	CO	CO Attained (% of students getting ≥ 80% marks)	CO Attained (On Scale of 3)
KAS101 P	CO1	62.22	1.87
	CO2	70	2.1
	CO3	68.89	2.07
	CO4	65.56	1.97
	CO5	72.22	2.17

CO Attainment using Semester End Examination (SEE)

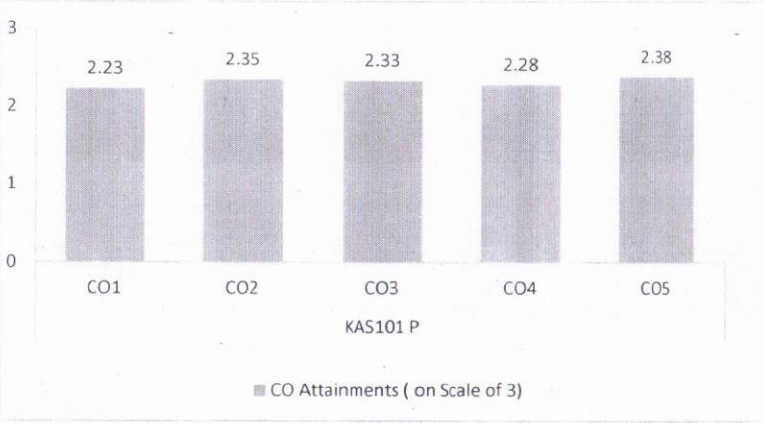
Course Code	CO	CO Attained (% of students getting ≥ 80% marks)	CO Attained (On Scale of 3)
KAS101 P	CO1	86.67	2.6
	CO2	86.67	2.6
	CO3	86.67	2.6
	CO4	86.67	2.6
	CO5	86.67	2.6

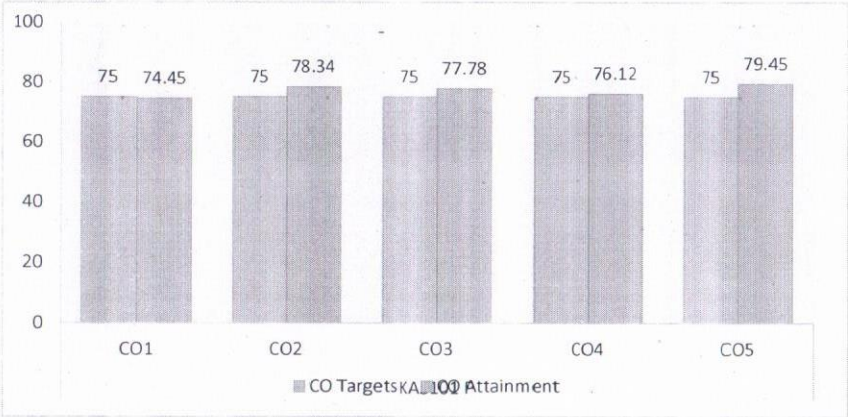
CO Attainment (CO)

Course Code	CO	CO Attained Using CIE (CO_CIE)	CO Attained using SEE (CO_SEE)	CO Attainment (CO = 0.5*CO_CIE + 0.5*CO_SEE)	CO Attainment (On Scale of 3)
KAS101 P	CO1	62.22	86.67	74.45	2.23
	CO2	70	86.67	78.34	2.35
	CO3	68.89	86.67	77.78	2.33
	CO4	65.56	86.67	76.12	2.28
	CO5	72.22	86.67	79.45	2.38

Dr. Manish Saxena
HOD (ASH)
M.I.T., Moradabad

Course Code	CO	CO Targets	CO Attainment	Y/N
KAS101 P	CO1	75	74.45	N
	CO2	75	78.34	Y
	CO3	75	77.78	Y
	CO4	75	76.12	Y
	CO5	75	79.45	Y





Dr. Manish Saxena
HOD (ASH)
M.I.T., Moradabad

Course Name	Engineering Physics Lab
Course Code	KAS101 P
Batch	2019 2022
Semester	1
Session	2019 2020
L:T:P	0.0.3

CO Attainment Gap

Course Code	CO	CO Targets	CO Attainment	CO Attainment Gap (Target - Attainment)
KAS101 P	CO1	75	74.45	0.55
	CO2	75	78.34	-3.34
	CO3	75	77.78	-2.78
	CO4	75	76.12	-1.12
	CO5	75	79.45	-4.45

If Gap > 0 : Target not attained
If Gap ≤ 0 : Target attained

Closure of Quality Loop

Course Code	CO	CO Targets	CO Attainment Gap	Action proposed to bridge the gap where targets are not achieved	Modification of targets where Achieved
KAS101 P	CO1	75	0.55	Extra care to be taken to notedown proper readings. Target is increased because gap is very less.	Target increased to 80%
	CO2	75	-3.34		Target increased to 80%
	CO3	75	-2.78		Target increased to 80%
	CO4	75	-1.12		Target increased to 80%
	CO5	75	-4.45		Target increased to 80%

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