



R K COLLEGE OF ENGINEERING

(Accredited by NAAC with 'A' Grade)

Kethanakonda (V), Ibrahimpatnam (M), Vijayawada, AMARAVATI-521456.

29th NOVEMBER 2023

To

THE PRINCIPAL,

R K College of Engineering.

Through

THE HOD,

Freshmen Engineering Department,

R K College of Engineering.

Respected Sir,

Sub: Seeking permission to conduct seminar on "QUANTUM MECHANICS AND FREE ELECTRON THEORY"-Reg.

I am writing this letter to request permission for conducting a seminar entitled on "QUANTUM MECHANICS AND FREE ELECTRON THEORY" in Seminar Hall From 6th DECEMBER 2023 to 7th DECEMBER 2023. I wish to conduct a seminar on "QUANTUM MECHANICS AND FREE ELECTRON THEORY" in regards to explain the basic concepts of Quantum mechanics and the band theory of solids. I believe that this will be a very informative seminar that many students will wish to attend.


Our students are the future of tomorrow, and they really need to understand about Dual nature of matter- Heisenberg's Uncertainty Principle – Significance and properties of wave function- Schrodinger's time independent and dependent wave equations and Quantum free electron theory.


Thanking You Sir,


Your's Sincerely


(G SURESH)



*Forwarded to
Principal Sir*



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1st DECEMBER 2023

From

Mr. V. MURALI KRISHNA,

Head of the Department,

Freshmen Engineering Department,

R K College of Engineering.

To

Mr. B. SESA PAVAN,

NALANDA DEGREE COLLEGE,

VIJAYAWADA-4.

Respected Sir,

Sub: Request invitation for delivering expert lecture for two days seminar on
"QUANTUM MECHANICS AND FREE ELECTRON THEORY"

The department of FED, RKCE Kethanakonda (V), Ibrahimpatnam (M), Amaravati, Andhra Pradesh is organizing A two days Seminar From 6th DECEMBER 2023 to 7th DECEMBER 2023 on "QUANTUM MECHANICS AND FREE ELECTRON THEORY" in Freshmen Engineering Department For I-B.Tech Students. On behalf of our college Management and Principal, I am very happy to invite you as a resource person.

I request you to accept the invitation and arrange to send the relevant study material so as to include in the course book a line of reply will be much appreciated.


Thanking You Sir,

Your's Sincerely


(V. MURALI KRISHNA)

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A two day Seminar

On

"QUANTUM MECHANICS AND FREE ELECTRON THEORY"

Organized by

Department of FED

RK College of Engineering, Vijayawada

PROGRAMME FLOW

DAY-1 (6 th DECEMBER 2023)		
Time	Speaker	Topic to be delivered
10.00 AM to 10.15 AM	Mr. V. MURALI KRISHNA	Welcome speech
10.15 AM to 10.30 AM	Mr. G. SURESH	Introduction about the program
10.30 AM to 11.30 AM	Mr. B. SESA PAVAN Email: bhaskarla.pavan@gmail.com Phone No: 9440096002	<ul style="list-style-type: none"> "QUANTUM MECHANICS AND FREE ELECTRON THEORY" Introduction Dual nature of matter Heisenberg's Uncertainty Principle.
11.30 AM to 11.45	TEA BREAK	
11.45 AM to 01.00 PM	Mr. B. SESA PAVAN Email: bhaskarla.pavan@gmail.com Phone No: 9440096002	<ul style="list-style-type: none"> Significance and properties of wave function
01.00 PM to 02.00 PM	LUNCH BREAK	
02.00 PM to 04.00 PM	Mr. B. SESA PAVAN Email: bhaskarla.pavan@gmail.com Phone No: 9440096002	<ul style="list-style-type: none"> Schrodinger's time independent and dependent wave equations Particle in a one-dimensional infinite potential well.
DAY-2 (7 th DECEMBER 2023)		
Time	Speaker	Topic to be delivered
10.30 AM to 11.30 AM	Mr. B. SESA PAVAN Email: bhaskarla.pavan@gmail.com Phone No: 9440096002	<ul style="list-style-type: none"> Free Electron theory Classical Free Electron theory
11.30 AM to 11.45	TEA BREAK	
11.45 AM to 01.00 PM	Mr. B. SESA PAVAN Email: bhaskarla.pavan@gmail.com Phone No: 9440096002	<ul style="list-style-type: none"> Quantum Free Electron theory
01.00 PM to 02.00 PM	LUNCH BREAK	
02.00 PM to 03.30 PM	Mr. B. SESA PAVAN Email: bhaskarla.pavan@gmail.com Phone No: 9440096002	<ul style="list-style-type: none"> Fermi- Dirac distribution
03.30 PM to 04.00 PM	Feedback from the participants and vote of thanks by Mrs. T. Sravanthi	

Coordinators: Mr. G. SURESH

Coordinator-IQAC

RKCE Ms. T. SRAVANTHI

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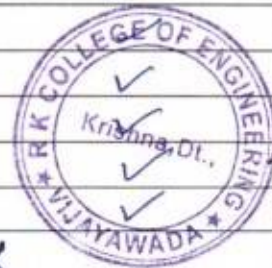
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Student Attendee for A Two Day Seminar on "QUANTUM MECHANICS AND FREE ELECTRON THEORY"

Sl. No.	Roll Number	Student Name	Signature of the students	
			Day - 1	Day - 2
1	23MC1A0101	BELLAMKONDA SAMBASIVA RAO	✓	✓
2	23MC1A0102	CHEDABHAVI PREM KUMAR	✓	✓
3	23MC1A0103	CHEEDARLA MEEKA	✓	✓
4	23MC1A0104	PULUSU ASHALATHA	✓	✓
5	23MC1A0105	RAMI REDDY GARI PAAVAN REDDY	✓	✓
6	23MC1A0301	POTHAM KRISHNA KUMAR REDDY	✓	✓
7	23MC1A0302	VULISETTI SURYA BHASKARA RAO	✓	✓
8	23MC1A0401	AKKIREDDY HARINI	✓	✓
9	23MC1A0402	ANAGANI AJAY KUMAR	✓	✓
10	23MC1A0403	ANKE SRINU	✓	✓
11	23MC1A0404	AVALA SRINU	✓	✓
12	23MC1A0405	BACHALAKURI YESU BABU	✓	✓
13	23MC1A0406	BELLA KUMARI	✓	✓
14	23MC1A0407	BELLAMKONDA SRINIVASULU	✓	✓
15	23MC1A0408	BHEEMUNIPATI GURU KALPANA	✓	✓
16	23MC1A0409	BOBBURI GANESH	✓	✓
17	23MC1A0410	BOGADHI POLINAIDU	✓	✓
18	23MC1A0411	BUDESAHEB SAYYAD	✓	✓
19	23MC1A0412	CHAKALI UMA MAHESWARI	✓	✓
20	23MC1A0413	CHEMBETI TEJA VENKATA KRISHNA	✓	✓
21	23MC1A0414	CHINTA VENKATA RUDRA BHUPATHI REDDY	✓	✓
22	23MC1A0415	CHOPPARAPU YEDUKONDALU	X	✓
23	23MC1A0416	CHUNDRU SRI KRISHNA SATYANARAYANA	✓	✓
24	23MC1A0417	DABBUGUNTALA VENKATA SUBBAIAH	✓	✓
25	23MC1A0418	DEVU JAYA SREE	✓	✓
26	23MC1A0419	DHONI GANESH	✓	✓
27	23MC1A0420	DORA DEEPTIMAYEE	✓	X
28	23MC1A0421	EGALAPATI INDRA	✓	✓
29	23MC1A0422	GATHUM MADHU SUDANA	✓	✓
30	23MC1A0423	GOLUKONDA VASANTH	✓	✓



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Student Attendee for A Two Days Seminar on "QUANTUM MECHANICS AND FREE ELECTRON THEORY"

Sl. No.	Roll Number	Student Name	Signature of the students	
			Day - 1	Day - 2
31	23MC1A0424	GOLUKONDA VASANTH	✓	✓
32	23MC1A0425	GUDIPATI GURAVAIAH	✓	✓
33	23MC1A0426	JAGAM SIRISHA	✓	✓
34	23MC1A0427	JALLA PHANENDRA KUMAR	✓	✓
35	23MC1A0428	JANAKI THANUJA	✓	✓
36	23MC1A0429	JANGALA PRAVEEN	✓	✓
37	23MC1A0430	KALINGI NAGA SAI	✓	✓
38	23MC1A0431	KALISSETTI MANI MOHAN	✓	✓
39	23MC1A0432	KANNURU RAJU	✓	✓
40	23MC1A0433	KARLI SRAVAN VIJAY KUMAR	✓	✓
41	23MC1A0434	KOKKILIGADDA CHANDRA SEKHAR	✓	✓
42	23MC1A0435	KOLA POOJITHA	✓	✓
43	23MC1A0436	KONDA HARSHA VARDHAN	✓	✓
44	23MC1A0437	KOPPALA ABHINAYA	✓	✓
45	23MC1A0438	LOKA SHIVAJI	✓	✓
46	23MC1A0439	M PHANI ESWAR REDDY	✓	✓
47	23MC1A0440	MADASU SAI	✓	✓
48	23MC1A0441	MAJJI NAVEEN	✓	✓
49	23MC1A0442	MALLELA RAJESH	✓	✓
50	23MC1A0443	MANIKALA ANIL	✓	✓
51	23MC1A0444	MARLA CHARAN	✓	✓
52	23MC1A0445	MEDA SHAKINA GLORY	✓	✓
53	23MC1A0446	MEDA SRAVANTHI	✓	✓
54	23MC1A0447	MEENIGA VENKATESWARLU	✓	✓
55	23MC1A0448	MEKALA MUTHYALAMMA	✓	✓
56	23MC1A0449	MENDEM JOICE KRISTY	✓	✓
57	23MC1A0450	MITTA SRILAKSHMI	✓	✓
58	23MC1A0451	MUCHALAMARI NANDA	✓	✓
59	23MC1A0452	NAGANABOINA SUMALATHA	✓	✓
60	23MC1A0453	NAKKA VENKATESWARLU	✓	✓

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Sl. No.	Roll Number	Student Name	Signature of the students	
			Day - 1	Day - 2
61	23MC1A0454	NEELAPALA MANOHAR	✓	✓
62	23MC1A0455	NEELAPU GOWRI SHANKAR	✓	✓
63	23MC1A0456	ORCHU GOPI	✓	✓
64	23MC1A0457	PATAN KARISHMA	✓	✓
65	23MC1A0458	PEETA SYAM MANOJ KUMAR	✓	✓
66	23MC1A0459	PERAM LEELA PRASAD	✓	✓
67	23MC1A0460	POTTIPATI GANGA RAM PRASAD	✓	✓
68	23MC1A0461	PRAMALAI SURYA	✓	✓
69	23MC1A0462	RACHAPROLU SRAVANTHI	✓	✓
70	23MC1A0463	REESU PAVAN KALYAN	✓	✓
71	23MC1A0464	REPALLE JEEVAN	✓	✓
72	23MC1A0465	REPANA RAJKUMAR	✓	✓
73	23MC1A0466	SANGALA VENKATA HARSHAVARDHAN REDDY	✓	✓
74	23MC1A0467	SHAIK ABDUL SATTAR	X	X
75	23MC1A0468	SHAIK MOHAMMAD AZEEM	✓	✓
76	23MC1A0469	SHAIK NAYAB RASOOL	✓	✓
77	23MC1A0470	SINGANAPALLI VAMSIKRUSHNA	✓	✓
78	23MC1A0471	TAGARAPU VENKATESWARLU	✓	✓
79	23MC1A0472	THOTA SAI MAHENDRA	✓	✓
80	23MC1A0473	VANGA GOWRI	✓	✓
81	23MC1A0474	VELUGU PRANAY MEGHANA	✓	✓
82	23MC1A0475	VISWANADHAPALLI KUMBLE VARMA	✓	✓
83	23MC1A0476	YACHAVARAPU STALIN	✓	✓
84	23MC1A0477	YALAVARTHI SARSWATHI	✓	✓
85	23MC1A0478	YENIBERA PRANEETHA	✓	✓
86	23MC1A0479	DONEPUDI SUHAS	✓	✓
87	23MC1A0480	MOHAMMAD SAMEER	✓	✓
88	23MC1A0481	GAVADAKATLA NAGESWARA RAO	✓	✓
89	23MC1A0482	KALINGI MANIKANTA SAI	✓	✓
90	23MC1A0483	KALYANAM JASHUVA	✓	✓

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Sl. No.	Roll Number	Student Name	Signature of the students	
			Day - 1	Day - 2
91	23MC1A0484	CHILAKALA KASI REDDY	✓	✓
92	23MC1A0485	BOPANA PAVAN KIRAN	✓	✓
93	23MC1A0486	KAGITHA NAGA DURGA RAO	✓	✓
94	23MC1A0487	VELAGA G G S S PRASAD	X	X
95	23MC1A0488	NAGALLA CHARAN CHAITANYA	✓	✓
96	23MC1A0489	KONDA THARUN REDDY	✓	✓
97	23MC1A0490	GOPAVARAPU SRIRAM	✓	✓
98	23MC1A0491	CHANDANA JYOTHI SATISH KUMAR	✓	✓
99	23MC1A0492	NELAPATI SWAMY	✓	✓
100	23MC1A0493	PAPPAKA OMNATHA	✓	✓
101	23MC1A4401	ADHIKARI DURGA PRASAD	✓	✓
102	23MC1A4402	AMPOLU SESHADRI	✓	✓
103	23MC1A4403	ANIMELA BHANUSREE	✓	✓
104	23MC1A4404	ANNAM ADITYA VENKATA SAI KUMAR	✓	✓
105	23MC1A4405	BADAMPALLI SAI	✓	✓
106	23MC1A4406	BANDLA SUMANTH	✓	✓
107	23MC1A4407	BANKURU ROHITH	✓	✓
108	23MC1A4408	BATHULA NAVNEET KUMAR	✓	✓
109	23MC1A4409	BINGI VASUDEVA	✓	✓
110	23MC1A4410	BOYINA SANJAY	✓	✓
111	23MC1A4411	CHALLA PAVAN KUMAR	✓	✓
112	23MC1A4412	CHENNAMSHETTY SRI RANGA LIKHITHA	✓	✓
113	23MC1A4413	CHENNUBOINA LEELA PAVAN KUMAR	✓	✓
114	23MC1A4414	CHEVURI ANUDEEP	✓	✓
115	23MC1A4415	DATTI BOBBY	✓	✓
116	23MC1A4416	DUNNA SAI	✓	✓
117	23MC1A4417	EDE TEJA SRI	✓	✓
118	23MC1A4418	GADE CHANDRASEKAR REDDY	✓	✓
119	23MC1A4419	GANTA SWATHI	✓	✓
120	23MC1A4420	GARUGUBILLI CHARAN	✓	✓
121	23MC1A4421	GOLLAPOTHU UMA MAHESH	✓	✓

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Sl. No.	Roll Number	Student Name	Signature of the students	
			Day - 1	Day - 2
122	23MC1A4422	GOPAVARAPU SRAVANI LAKSHMI	✓	✓
123	23MC1A4423	GUDURU LOKESH	✓	✓
124	23MC1A4424	JAMPANI RUPASRI	✓	✓
125	23MC1A4425	JANAPAREDDY UDAY KUMAR	✓	✓
126	23MC1A4426	JUTTU YASWANTA KUMAR	✓	✓
127	23MC1A4427	JYOTHI N	✓	✓
128	23MC1A4428	KALLA SAI VISHNU	✓	✓
129	23MC1A4429	KANCHARLA JISHNU VARDHAN	✓	✓
130	23MC1A4430	KATAKAM PRABHU KUMAR	✓	✓
131	23MC1A4431	KONIKI GIREESH	✓	✓
132	23MC1A4432	KORAPATI LAKSHMAN	✓	✓
133	23MC1A4433	KRISHNAPATNAM JOSH KUMAR	✓	✓
134	23MC1A4434	KUTALA MANIKANTA NAIDU	✓	✓
135	23MC1A4435	MADDELA SAI PRAKASH	✓	✓
136	23MC1A4436	MAJJI HARSHAVARDHAN	✓	✓
137	23MC1A4437	MALLENA DEEPAK	✓	✓
138	23MC1A4438	MARAKALA SYAMPRASAD	✓	✓
139	23MC1A4439	MATRAPU BALU	✓	✓
140	23MC1A4440	MEDA SRAVAN KUMAR	✓	✓
141	23MC1A4441	MIDASALA JENITH VARMA	✓	✓
142	23MC1A4442	MORABOINA NARENDRA BABU	✓	✓
143	23MC1A4443	NAMALA VIJAY PRASAD	✓	✓
144	23MC1A4444	NIMMAKAYALA SANDEEP	✓	✓
145	23MC1A4445	ODDEPOGU RAVEENDRA	✓	✓
146	23MC1A4446	OGGU TULASI VENU	✓	✓
147	23MC1A4447	PADARLA KOMALA	✓	✓
148	23MC1A4448	PAMIDIMUKKALA VENKATA LAKSHMAN	✓	✓
149	23MC1A4449	PATAPALYAM AADARSH	✓	✓
150	23MC1A4450	PENNAM LAHARI	✓	✓
151	23MC1A4451	PUTTA SAI LAKSHMI	✓	✓
152	23MC1A4452	SHAIK ABEED	✓	✓

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			Day - 1	Day - 2
153	23MC1A4453	SYED VAJID	✓	✓
154	23MC1A4454	TATTUKOLLA BHIMARAJU	✓	✓
155	23MC1A4455	THOTI CHANDU	✓	✓
156	23MC1A4456	VANGALA KIRANKUMAR REDDY	✓	✓
157	23MC1A4457	VAVILI VAMSI	✓	✓
158	23MC1A4458	YALAVARTHI PRASANTH	✓	✓
159	23MC1A4459	YANAMADALA RAJENDRA NARESH KUMAR	✓	✓
160	23MC1A4460	YEDURU TARUN	✓	✓
161	23MC1A6101	ADAPALA VIJAY MANI KUMAR	✓	✓
162	23MC1A6102	AMALADINNE ASHOK KUMAR REDDY	✓	✓
163	23MC1A6103	ARIKATLA NAVYA	✓	X
164	23MC1A6104	ASI UDAY KIRAN	✓	✓
165	23MC1A6105	ATHUKURI V N R PAVAN KRISHNA	✓	✓
166	23MC1A6106	BAIG KHAJA	✓	✓
167	23MC1A6107	BATHULA MOUNIKA	✓	✓
168	23MC1A6108	CHALLA SRAVANTHI	✓	✓
169	23MC1A6109	CHEAKURI LAVANYA	✓	✓
170	23MC1A6110	CHILLA DEEPIKA	✓	✓
171	23MC1A6111	CHIRAKALA SUBRAHMANYAM	✓	✓
172	23MC1A6112	DESABOYINA BINDU MADHAVI	✓	✓
173	23MC1A6113	DEVADASU RAJU	✓	✓
174	23MC1A6114	DOKUBARTHI RAMU	✓	✓
175	23MC1A6115	GAJJALA KONDAREDDY	✓	✓
176	23MC1A6116	GUNAPATI JAGAN MOHAN REDDY	✓	✓
177	23MC1A6117	GUNDAVARAPU VENKATA RAO	✓	✓
178	23MC1A6118	JANGA SANTHOSH KUMAR	✓	✓
179	23MC1A6119	KALLURI NAGA JYOTHI	✓	✓
180	23MC1A6120	KANITHI JYOTHI SATYA SRI	✓	✓
181	23MC1A6121	KARRI DEVI PRASAD	✓	✓
182	23MC1A6122	KATARU CHARAN KUMAR	✓	✓
183	23MC1A6123	KODURU TARUN KUMAR	✓	✓



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			Day - 1	Day - 2
184	23MC1A6124	KOILA CHANDRA PAL	✓	✓
185	23MC1A6125	KOKKU SUJATHA	✓	✓
186	23MC1A6126	KONCHA VENKATA DIVYA	✓	✓
187	23MC1A6127	KONDA VENKATA NARASIMHA RAO	✓	✓
188	23MC1A6128	KONERU SRI RAMYA CHOWDARY	✓	✓
189	23MC1A6129	KOPPALA AMBIKA	✓	✓
190	23MC1A6130	KOPPULA ANAND	✓	✓
191	23MC1A6131	LINGALA SUBHASH	✓	✓
192	23MC1A6132	MAJJIGA RAVI TEJA	✓	✓
193	23MC1A6133	MALLIMPATI VASANTHI	✓	✓
194	23MC1A6134	MANDAPATI PUJITHA	✓	✓
195	23MC1A6135	MANDLA NANDA KISHORE	✓	✓
196	23MC1A6136	MOHAMMAD ABDUL SOHEL	✓	✓
197	23MC1A6137	NASINA BALAJI	✓	✓
198	23MC1A6138	NEELABOINA RANGASWAMY	✓	✓
199	23MC1A6139	NEYVALA SATISH	✓	✓
200	23MC1A6140	NIDADAVOLU SATYANARAYANA	✓	✓
201	23MC1A6141	NIMMAGADDA LALITHA SRAVANTHI	✓	✓
202	23MC1A6142	PARVATA HARIKA	✓	✓
203	23MC1A6143	PASUPULETI MANOHARA LAKSHMI NARASIMHA	✓	✓
204	23MC1A6144	PEDDISSETTI MALLESWARI	✓	✓
205	23MC1A6145	PEDIREDLA RAMA SAI	✓	✓
206	23MC1A6146	POLEBOYINA GURU ANJALI	✓	✓
207	23MC1A6147	POTARLANKA HANU KUMAR	✓	✓
208	23MC1A6148	PULI THARUN KUMAR	✓	✓
209	23MC1A6149	PURAM SIRISHA	✓	✓
210	23MC1A6150	RAVADA ARUL GREESHMANATH	✓	✓
211	23MC1A6151	SAI TEJA VYTILA	✓	✓
212	23MC1A6152	SANAM NAGENDRAM	✓	✓
213	23MC1A6153	SARE VARALAKSHMI	✓	✓
214	23MC1A6154	SASAPU LAVANYA	✓	✓
215	23MC1A6155	SESHAM RAMAKRISHNA	✓	✓



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Student Attendee for A Two Days Seminar on "QUANTUM MECHANICS AND FREE ELECTRON THEORY"

Sl. No.	Roll Number	Student Name	Signature of the students	
			Day - 1	Day - 2
216	23MC1A6156	SHAIK IMAM JAFAR SADIQ	✓	✓
217	23MC1A6157	SHAIK MOULA RAFI	✓	✓
218	23MC1A6158	SHEIK NAZMA	✓	✓
219	23MC1A6159	SIRIGIRI NARENDRA REDDY	✓	✓
220	23MC1A6160	VADLAPUDI MEENAKSHI	✓	✓
221	23MC1A6161	VUTUKURI REVATHI BALA SRI	✓	✓
222	23MC1A6162	YARAGORLA VENKATESH	✓	✓
223	23MC1A6163	YARAM SRIVANI	✓	✓
224	23MC1A6164	YERUVA BHARGAV REDDY	✓	✓
225	23MC1A6165	NARTHU AADARSH	✓	✓
226	23MC1A6166	PIKKILI LAKSHMANA	✓	✓


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Report on

A Two day seminar on

"QUANTUM MECHANICS AND FREE ELECTRON THEORY"

Title: **"QUANTUM MECHANICS AND FREE ELECTRON THEORY"**

Expert Mr. B. SETHA PAVAN

Email: bhaskarla.pavan@gmail.com

Phone No: 9440096002

Date: From 6th DECEMBER 2023 to 7th DECEMBER 2023

Venue: Seminar Hall, Department of FED, RKCE.

Coordinators: Mr. G. SURESH

Ms. T. SRAVANTHI

Organized by: Freshmen Engineering Department

Total Participants attended: 222

Details of Participants: I-year I-Semester (CE, ME, AIML, CSD & ECE)

Students of I-year I-Semester (CE, ME, AIML, CSD & ECE) attended the seminar about "QUANTUM MECHANICS AND FREE ELECTRON THEORY" with full attention throughout two days. Mr. B. SETHA PAVAN had elaborately explained about the importance of Electron theory. He explains the specific heat capacity of materials and also explains photo electric effect, Compton Effect and black body radiation. The detailed topic is showed in program flow. The seminar was very useful as well as effectively helpful for the participants.


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Resource Person Profile



Presently working in NALANDA DEGREE COLLEGE as A HOD in the DEPARTMENT OF CHEMISTRY. He has 20+ years of teaching experience in various institutions.

"QUANTUM MECHANICS AND FREE ELECTRON THEORY"

Introduction

The classical theory was developed by Drude and Lorentz in 1900. According to this theory, the metals containing free electrons obey the laws of classical mechanics such as electron can roam anywhere in the metal, they obey kinetic theory of gases and treated as free electron gas. This theory explained successfully, the motion of macroscopic particles which can be observed either directly or through microscopes. This theory also explained successfully the phenomena such as ohm's law, electrical & thermal conductivities and optical properties but failed in explaining the phenomena such as Photoelectric Effect, Compton Effect and Black body radiation. Then the necessity of development of new theory (quantum theory) was aroused.

The quantum theory was developed by Max Plank in the early of 20th century. In 1928, Summerfield explained the quantum free electron theory with the help of laws of quantum mechanics such as electrons move only in the stationary orbital and their motion is conditional. As per this theory Einstein could be explained the phenomenon of Photoelectric Effect and proved that light exhibits dual nature. Hence it is proved that light exhibits dual nature and which motivated towards the existence of matter waves. Though quantum theory explained several phenomena, it is failed in explaining the classification of solid into metals, semiconductors and insulators therefore; the necessity of new theory was arised again to explain this phenomenon (Band theory of solids).

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The band theory of solids was developed by Bloch in 1928. According to this theory, the free electrons move in a periodic potential proved by the crystal lattice. This theory successfully explained the phenomenon of classification of metals, semiconductors and insulators.

Matter waves

If a certain amount of quantity occupies a certain space then it becomes a particle. The particle has mass. As it is occupying a certain space, its position can be identified. When its position changes then it has velocity. Due to its mass and velocity, the particle has momentum and energy. From all these items it is clear that the characteristic of a particle are mass, velocity, momentum and energy. A wave is nothing but spreading of disturbance in a medium. Thus the characteristics of waves are amplitude, time period, frequency, wavelength, phase and intensity. To explain the phenomenon which involves both particle and wave nature, we use Plank's quantum theory. According to the quantum theory, the emission of radiation will be in the form of photons. A photon has a velocity of light and mass in motion. Thus, it has momentum and energy. That means a photon behaves as a QUANTUM MECHANICS AND FREE ELECTRON THEORY Prepared by P G LOGAN 2 particle. The energy of a photon is given by $E = h\nu$ where ν is the frequency of radiation. Along with frequency, other parameters attribute a wave nature to photon. This concept of dual nature of radiation prompted de Broglie to suggest the idea of matter waves.

Heisenberg Uncertainty Principle

According to classical mechanics, a moving particle at any instant has a fixed position in space and a definite momentum which can be determined simultaneously with any desired accuracy. The classical point of view represents an approximation which is adequate for the objects of appreciable size, but not for the particles of atomic dimensions. Since a moving particle has to be regarded as a de Broglie group, there is a limit to the accuracy with which we can measure the particle properties. The particle may be found anywhere within the wave group, moving with the group velocity. If the group is narrow, it is easy to locate its position but the uncertainty in calculating its velocity or momentum increases. On the other hand, if the group is wide, its



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of the particle is great. Heisenberg stated that the simultaneous determination of exact position and momentum of a moving particle is impossible.

Particle in a one dimensional infinite potential well

Consider a particle of mass m moving back and forth between the walls of a one dimensional box separated by a distance ' a ' as shown in fig. Let the particle travel only along the x -axis and is confined between $x = 0$ and $x = a$ by two infinitely hard walls so that the particle has no chance of penetrating them.

Free electron theory

The physical properties of solid are governed by the valence electrons of atoms in a solid. The mobility of these valence electrons in a solid decides the electrical, thermal and magnetic properties of solid. To study these properties electron theories were proposed. These electron theories were used to explain the structure and properties of solids.

According to free electron theory the free electrons available in the metal are responsible for its electrical conductivity based on classical mechanics. In order to overcome the draw of classical free electron theory, Quantum free electron theory was developed based on quantum laws. Later band theory was developed to explain the various properties of metals. Classical free electron theory — Electrical conductivity.

Classical free electron theory was proposed by Drude and Lorentz. According to this theory a metal is supposed to consists of +ve ions fixed in the lattice whose free electrons move freely and randomly in the metal like gas molecules in a vessel. When an electric field is applied the free electron experiences an electric force and gets accelerated. These accelerated electrons collide with the +ve ions losing some of their energy and acquires a constant velocity along the metal. This constant velocity of electrons is known as drift velocity v_d . The average distance travelled by QUANTUM MECHANICS AND FREE ELECTRON THEORY Prepared by P G LOGAN 12 the free electron between two successive collisions is called mean free path λ . The time taken to travel mean free path λ is known as mean free time or relation time denoted by τ .

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FERMI-DIRAC DISTRIBUTION

We know that in a metal, in the absence of an electric field, free electrons move at random, similar to the behaviour of the electron gas. Since electrons are indistinguishable particles, they are known as fermions or Fermi particles. Hence, such an electron gas obeys Fermi—Dirac statistics or distribution. The Fermi—Dirac distribution describes the behaviour of free electron gas, taking into account the quantum theory and Pauli's exclusion principle.

According to quantum theory, the electrons will have discrete energy states or levels and the occupation or distribution of electrons among these energy levels will be governed by Pauli's exclusion principle, i.e., not more than two electrons can occupy the same energy level. At absolute zero temperature, two electrons occupy the ground state and two into each state of next higher energy levels. The highest energy level occupied by electrons at absolute zero is known as Fermi energy level which divides or separates the occupied states from the unoccupied states. The energy of the Fermi level is E_F

SOURCES OF ELECTRICAL RESISTANCE

According to quantum free electron theory, the free electron while the moving at random within the metal gets scattered by +ve ions present in the metal. The scattering of conduction electrons are due to

1. Lattice vibrations (phonon scattering)
2. By the impurities
3. By structural imperfections

Under normal condition, without applied electric field, the +ve ions will be in vibrations about their mean positions due to thermal energy. These vibrations are known as lattice vibrations. When the moving electrons encounter the vibrating +ve ions, they get scattered. This type of scattering is known as phonon scattering. Due to impurities present in the metal and due to defects, the electrons also get scattered.



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Feedback form for Two days Seminar on "AIR POLLUTION QUANTUM MECHANICS AND FREE ELECTRON THEORY"

*(0-Low, 5 High)

S. no	Hall ticket number	Information was new to you? (Yes/No)	Would you like to learn more about this topic? (Yes/no)	Rate* the Speaker Knowledge.	Rate* the Speaker Presentation	Rate* the content of Slides	Rate* the session compared to your expectations	Rate* the overall session	Additional comments
1	23MC1A0101	Yes	Yes	5	5	5	5	5	Excellent
2	23MC1A0102	Yes	Yes	5	5	5	4	5	good
3	23MC1A0103	Yes	Yes	5	5	5	4	5	Good
4	23MC1A0104	Yes	Yes	5	5	5	5	5	Excellent
5	23MC1A0105	Yes	Yes	5	5	5	4	5	Good
6	23MC1A0301	Yes	Yes	5	5	5	5	5	Excellent
7	23MC1A0302	Yes	Yes	5	5	5	5	5	excellent
8	23MC1A0401	Yes	Yes	5	5	4	5	5	vgood
9	23MC1A0402	Yes	Yes	5	5	4	5	5	Good
10	23MC1A0403	Yes	Yes	5	5	5	5	5	excellent
11	23MC1A0404	Yes	Yes	5	5	5	5	5	excellent
12	23MC1A0405	Yes	Yes	5	4	5	4	5	Good
13	23MC1A0406	Yes	Yes	5	5	5	5	5	Excellent
14	23MC1A0407	Yes	Yes	5	4	5	4	5	Good
15	23MC1A0408	Yes	Yes	5	5	5	4	5	good
16	23MC1A0409	Yes	Yes	5	5	5	5	5	Good
17	23MC1A0410	Yes	Yes	5	5	5	4	5	Good
18	23MC1A0411	Yes	Yes	5	5	5	5	5	Excellent
19	23MC1A0412	Yes	Yes	5	5	5	5	5	Excellent
20	23MC1A0413	Yes	Yes	5	5	5	4	5	Good
21	23MC1A0414	Yes	Yes	5	5	5	5	5	Excellent
22	23MC1A0415	Yes	Yes	5	5	5	5	5	Excellent
23	23MC1A0416	Yes	Yes	5	5	5	4	4	Good
24	23MC1A0417	Yes	Yes	5	5	4	5	4	Good
25	23MC1A0418	Yes	Yes	5	5	5	5	5	Excellent
26	23MC1A0419	Yes	Yes	5	4	5	4	5	good
27	23MC1A0420	Yes	Yes	5	5	5	5	5	Excellent
28	23MC1A0421	Yes	Yes	5	4	5	4	5	Good

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Feedback form for Two days Seminar on "QUANTUM MECHANICS AND FREE ELECTRON THEORY"

*(0-Low,5 High)

S. no	Hall ticket number	Information was new to you? (Yes/No)	Would you like to learn more about this topic? (Yes/no)	Rate* the Speaker Knowledge.	Rate* the Speaker Presentation	Rate* the content of Slides	Rate* the session compared to your expectations	Rate* the overall session	Additional comments
29	23MC1A0422	Yes	Yes	5	5	5	5	5	Excellent
30	23MC1A0423	Yes	Yes	5	5	5	5	5	Excellent
31	23MC1A0424	Yes	Yes	5	4	5	4	5	Good
32	23MC1A0425	Yes	Yes	5	5	5	5	5	Excellent
33	23MC1A0426	Yes	Yes	5	5	5	4	5	Good
34	23MC1A0427	Yes	Yes	5	5	4	4	5	Good
35	23MC1A0428	Yes	Yes	5	5	5	5	5	Excellent
36	23MC1A0429	Yes	Yes	5	5	5	5	4	Good
37	23MC1A0430	Yes	Yes	5	4	5	4	5	Good
38	23MC1A0431	Yes	Yes	5	5	5	5	5	Excellent
39	23MC1A0432	Yes	Yes	5	5	5	5	5	Excellent
40	23MC1A0433	Yes	Yes	5	4	5	4	5	Good
41	23MC1A0434	Yes	Yes	5	4	5	4	5	Good
42	23MC1A0435	Yes	Yes	5	5	5	5	5	Excellent
43	23MC1A0436	Yes	Yes	5	4	5	4	5	Good
44	23MC1A0437	Yes	Yes	5	5	5	5	5	Excellent
45	23MC1A0438	Yes	Yes	5	5	5	5	5	Excellent
46	23MC1A0439	Yes	Yes	5	5	4	4	4	Good
47	23MC1A0440	Yes	Yes	5	5	4	4	5	Good
48	23MC1A0441	Yes	Yes	5	5	5	5	5	Excellent
49	23MC1A0442	Yes	Yes	5	5	5	5	5	Excellent
50	23MC1A0443	Yes	Yes	5	5	5	4	4	Good
51	23MC1A0444	Yes	Yes	5	4	5	4	5	Good
52	23MC1A0445	Yes	Yes	5	5	5	5	5	Excellent
53	23MC1A0446	Yes	Yes	5	5	4	5	4	Good
54	23MC1A0447	Yes	Yes	5	4	5	4	5	Good
55	23MC1A0448	Yes	Yes	5	5	5	4	4	Good
56	23MC1A0449	Yes	Yes	5	5	5	5	5	Excellent

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*(0-Low, 5 High)

S. no	Hall ticket number	Information was new to you? (Yes/No)	Would you like to learn more about this topic? (Yes/no)	Rate* the Speaker Knowledge.	Rate* the Speaker Presentation	Rate* the content of Slides	Rate* the session compared to your expectations	Rate* the overall session	Additional comments
57	23MC1A0450	Yes	Yes	4	5	5	5	5	Good
58	23MC1A0451	Yes	Yes	5	5	5	4	5	Good
59	23MC1A0452	Yes	Yes	5	5	4	5	5	Good
60	23MC1A0453	Yes	Yes	5	5	5	5	5	Excellent
61	23MC1A0454	Yes	Yes	5	5	5	5	5	excellent
62	23MC1A0455	Yes	Yes	5	5	5	4	4	Good
63	23MC1A0456	Yes	Yes	5	4	5	4	5	Good
64	23MC1A0457	Yes	Yes	5	4	5	5	4	Good
65	23MC1A0458	Yes	Yes	4	5	4	5	4	Good
66	23MC1A0459	Yes	Yes	4	5	4	5	4	Good
67	23MC1A0460	Yes	Yes	4	5	4	5	4	Good
68	23MC1A0461	Yes	Yes	4	5	4	5	4	Good
69	23MC1A0462	Yes	Yes	4	5	4	5	4	Good
70	23MC1A0463	Yes	Yes	5	5	5	5	5	Excellent
71	23MC1A0464	Yes	Yes	5	5	5	5	5	Excellent
72	23MC1A0465	Yes	Yes	5	5	5	5	5	Excellent
73	23MC1A0466	Yes	Yes	5	4	5	4	5	Good
74	23MC1A0467	Yes	Yes	5	4	5	4	5	Good
75	23MC1A0468	Yes	Yes	5	4	5	4	5	Good
76	23MC1A0469	Yes	Yes	5	4	5	4	5	Good
77	23MC1A0470	Yes	Yes	5	5	5	5	5	Excellent
78	23MC1A0471	Yes	Yes	5	5	5	5	5	Excellent
79	23MC1A0472	Yes	Yes	5	5	5	5	5	Excellent
80	23MC1A0473	Yes	Yes	5	5	5	5	5	Excellent
81	23MC1A0474	Yes	Yes	5	5	5	4	4	Good
82	23MC1A0475	Yes	Yes	5	5	5	5	5	Excellent
83	23MC1A0476	Yes	Yes	5	5	5	4	4	Good
84	23MC1A0477	Yes	Yes	5	5	5	4	4	Good

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*(0-Low, 5 High)

S. no	Hall ticket number	Information was new to you? (Yes/No)	Would you like to learn more about this topic? (Yes/no)	Rate* the Speaker Knowledge.	Rate* the Speaker Presentation	Rate* the content of Slides	Rate* the session compared to your expectations	Rate* the overall session	Additional comments
85	23MC1A0478	Yes	Yes	5	5	5	5	5	Excellent
86	23MC1A0479	Yes	Yes	5	5	5	5	5	excellent
87	23MC1A0480	Yes	Yes	5	5	5	4	5	Good
88	23MC1A0481	Yes	Yes	5	5	5	5	5	excellent
89	23MC1A0482	Yes	Yes	5	5	4	5	4	Good
90	23MC1A0483	Yes	Yes	5	4	5	5	5	Good
91	23MC1A0484	Yes	Yes	5	5	5	5	5	Excellent
92	23MC1A0485	Yes	Yes	5	5	5	5	5	excellent
93	23MC1A0486	Yes	Yes	5	5	5	5	5	Excellent
94	23MC1A0487	Yes	Yes	5	5	4	5	5	excellent
95	23MC1A0488	Yes	Yes	5	5	4	5	5	excellent
96	23MC1A0489	Yes	Yes	5	5	4	5	5	Good
97	23MC1A0490	YES	YES	5	5	5	5	5	excellent
98	23MC1A0491	Yes	Yes	5	5	4	5	4	Good.
99	23MC1A0492	YES	YES	5	5	5	4	5	V. Good.
100	23MC1A0493	YES	YES	5	5	5	4	5	V. Good.
101	23MC1A4401	YES	YES	5	5	5	4	5	Good
102	23MC1A4402	YES	YES	5	5	5	5	5	Excellent
103	23MC1A4403	YES	YES	5	5	5	5	5	Excellent
104	23MC1A4404	Yes	Yes	5	5	5	4	5	Good.
105	23MC1A4405	Yes	Yes	5	5	5	4	5	Good.
106	23MC1A4406	Yes	Yes	5	5	5	4	5	V. Good.
107	23MC1A4407	YES	YES	5	5	5	5	5	Excellent
108	23MC1A4408	Yes	Yes	5	5	5	4	5	Good
109	23MC1A4409	YES	YES	5	5	5	5	5	Good.
110	23MC1A4410	Yes	Yes	5	5	5	4	5	Good.
111	23MC1A4411	Yes	YES	5	5	4	5	4	Good.
112	23MC1A4412	Yes	Yes	5	5	5	5	5	Excellent

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Feedback form for Two days Seminar on "QUANTUM MECHANICS AND FREE ELECTRON THEORY"

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113	23MC1A4413	Yes	Yes	5	5	5	5	5	Excellent
114	23MC1A4414	Yes	Yes	5	5	5	5	5	Excellent
115	23MC1A4415	Yes	Yes	5	5	5	4	4	Good
116	23MC1A4416	Yes	Yes	5	4	5	4	5	Good
117	23MC1A4417	Yes	Yes	5	4	5	4	5	Good
118	23MC1A4418	Yes	Yes	5	5	5	5	5	Excellent
119	23MC1A4419	Yes	Yes	5	5	5	5	5	Excellent
120	23MC1A4420	Yes	Yes	5	5	5	5	5	Excellent
121	23MC1A4421	Yes	Yes	5	5	4	5	4	Good
122	23MC1A4422	Yes	Yes	5	4	5	4	5	Good
123	23MC1A4423	Yes	Yes	5	4	5	4	5	Good
124	23MC1A4424	Yes	Yes	5	4	5	4	5	Good
125	23MC1A4425	Yes	Yes	5	4	5	4	5	Good
126	23MC1A4426	Yes	Yes	5	5	5	5	5	Excellent
127	23MC1A4427	Yes	Yes	5	5	5	5	5	Excellent
128	23MC1A4428	Yes	Yes	5	5	5	5	5	Excellent
129	23MC1A4429	Yes	Yes	5	4	5	4	5	Good
130	23MC1A4430	Yes	Yes	5	5	5	4	4	Good
131	23MC1A4431	Yes	Yes	5	5	4	4	5	Good
132	23MC1A4432	Yes	Yes	5	5	5	5	5	Excellent
133	23MC1A4433	Yes	Yes	5	5	4	5	4	Good
134	23MC1A4434	Yes	Yes	5	5	5	5	5	Excellent
135	23MC1A4435	Yes	Yes	5	5	5	4	5	Excellent
136	23MC1A4436	Yes	Yes	5	5	5	5	4	Good
137	23MC1A4437	Yes	Yes	4	4	5	5	4	Good
138	23MC1A4438	Yes	Yes	5	4	5	5	5	Good

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139	23MCIA4439	Yes	Yes	5	5	5	5	5	Excellent
140	23MCIA4440	Yes	Yes	5	4	5	4	5	Good
141	23MCIA4441	Yes	Yes	5	5	5	4	4	Good
142	23MCIA4442	Yes	Yes	5	4	5	4	5	Good
143	23MCIA4443	Yes	Yes	5	5	5	5	5	Excellent
144	23MCIA4444	Yes	Yes	5	5	4	5	4	Good
145	23MCIA4445	Yes	Yes	5	5	5	4	4	Good
146	23MCIA4446	Yes	Yes	5	5	5	4	4	Good
147	23MCIA4447	Yes	Yes	5	5	5	4	4	Good
148	23MCIA4448	Yes	Yes	5	5	5	4	4	Good
149	23MCIA4449	Yes	Yes	5	4	5	4	5	Good
150	23MCIA4450	Yes	Yes	5	5	5	5	5	Excellent
151	23MCIA4451	Yes	Yes	5	5	5	5	5	Excellent
152	23MCIA4452	Yes	Yes	5	5	5	4	4	Good
153	23MCIA4453	Yes	Yes	5	5	4	5	4	Good
154	23MCIA4454	Yes	Yes	5	5	5	5	5	Excellent
155	23MCIA4455	Yes	Yes	5	5	4	4	5	Good
156	23MCIA4456	Yes	Yes	5	4	5	4	5	Good
157	23MCIA4457	Yes	Yes	5	4	5	4	5	Good
158	23MCIA4458	Yes	Yes	5	5	5	5	5	Excellent
159	23MCIA4459	Yes	Yes	5	5	5	5	5	Excellent
160	23MCIA4460	Yes	Yes	5	4	5	4	5	Good
161	23MCIA6101	Yes	Yes	5	5	5	5	5	Excellent
162	23MCIA6102	Yes	Yes	5	5	5	5	5	Excellent
163	23MCIA6103	Yes	Yes	5	4	5	4	5	Good
164	23MCIA6104	Yes	Yes	5	5	5	5	5	Excellent

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165	23MC1A6105	Yes	Yes	5	5	5	5	5	Excellent
166	23MC1A6106	Yes	Yes	5	5	5	5	5	Excellent
167	23MC1A6107	Yes	Yes	5	4	5	4	5	Good
168	23MC1A6108	Yes	Yes	5	5	5	5	5	Excellent
169	23MC1A6109	Yes	Yes	5	4	5	4	5	Good
170	23MC1A6110	Yes	Yes	5	5	5	5	5	Excellent
171	23MC1A6111	Yes	Yes	5	4	5	5	5	Good
172	23MC1A6112	Yes	Yes	5	5	5	5	5	Excellent
173	23MC1A6113	Yes	Yes	5	5	5	5	5	Excellent
174	23MC1A6114	Yes	Yes	5	5	4	5	5	Good
175	23MC1A6115	Yes	Yes	5	5	5	5	5	Excellent
176	23MC1A6116	Yes	Yes	5	5	5	5	5	Excellent
177	23MC1A6117	Yes	Yes	5	5	4	5	5	Good
178	23MC1A6118	Yes	Yes	5	5	5	5	5	Excellent
179	23MC1A6119	Yes	Yes	5	5	5	4	5	Good
180	23MC1A6120	Yes	Yes	5	4	5	5	5	Good
181	23MC1A6121	Yes	Yes	5	5	5	5	5	Excellent
182	23MC1A6122	Yes	Yes	5	5	5	4	5	Good
183	23MC1A6123	Yes	Yes	5	5	5	4	5	Good
184	23MC1A6124	Yes	Yes	5	5	5	5	5	Excellent
185	23MC1A6125	Yes	Yes	5	5	4	5	5	Good
186	23MC1A6126	Yes	Yes	5	5	5	5	5	Excellent
187	23MC1A6127	Yes	Yes	5	5	4	5	4	Good
188	23MC1A6128	Yes	Yes	5	5	5	5	5	Good
189	23MC1A6129	Yes	Yes	5	5	5	5	5	Excellent
190	23MC1A6130	Yes	Yes	5	5	5	5	5	Excellent

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191	23MCIA6131	yes	yes	5	5	5	5	5	Excellent
192	23MCIA6132	YES	YES	5	5	5	4	4	Good
193	23MCIA6133	Yes	Yes	5	4	5	4	5	Good.
194	23MCIA6134	Yes	Yes	5	4	5	5	5	Good
195	23MCIA6135	Yes	Yes	5	4	5	4	5	Good.
196	23MCIA6136	Yes	Yes	5	5	5	5	5	Excellent.
197	23MCIA6137	Yes	Yes	4	5	5	4	5	Good.
198	23MCIA6138	Yes	Yes	5	5	5	5	5	Excellent
199	23MCIA6139	Yes	Yes	5	4	5	4	5	Good
200	23MCIA6140	Yes	Yes	5	4	5	4	5	Good.
201	23MCIA6141	YES	YES	5	5	5	5	5	Excellent.
202	23MCIA6142	Yes	Yes	5	4	5	4	5	Good
203	23MCIA6143	YES	YES	5	5	5	4	5	Good
204	23MCIA6144	Yes	Yes	5	4	5	4	5	Good.
205	23MCIA6145	Yes	Yes	5	4	5	4	5	Good
206	23MCIA6146	YES	Yes	5	5	5	5	5	Excellent
207	23MCIA6147	Yes	Yes	5	5	5	4	5	Good
208	23MCIA6148	Yes	Yes	5	5	5	5	5	Excellent
209	23MCIA6149	Yes	Yes	5	4	5	4	5	Good
210	23MCIA6150	Yes	Yes	5	5	5	5	5	Excellent
211	23MCIA6151	Yes	Yes	5	5	5	5	5	Excellent
212	23MCIA6152	Yes	Yes	5	4	5	4	5	Good
213	23MCIA6153	Yes	Yes	5	5	5	5	5	Excellent
214	23MCIA6154	Yes	Yes	5	4	5	4	5	Good.
215	23MCIA6155	Yes	Yes	5	5	5	5	5	Excellent.
216	23MCIA6156	Yes	Yes	5	5	5	5	5	Excellent

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217	23MC1A6157	Yes	Yes	5	5	4	4	5	Good.
218	23MC1A6158	Yes	Yes	5	5	5	5	5	Excellent.
219	23MC1A6159	Yes	Yes	5	5	5	4	4	Good.
220	23MC1A6160	Yes	Yes	5	4	5	4	5	Good.
221	23MC1A6161	Yes	Yes	5	4	5	4	5	Good.
222	23MC1A6162	Yes	Yes	5	5	5	4	4	Good.
223	23MC1A6163	Yes	Yes	5	5	4	4	4	Good.
224	23MC1A6164	Yes	Yes	5	4	4	4	5	Good.
225	23MC1A6165	Yes	Yes	5	5	5	5	5	Excellent.
226	23MC1A6166	Yes	Yes	5	5	5	5	5	Excellent.



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Certificate



This is to certify that Mr./ Ms. GUNDAVARAPU VENKATA RAO - 23MC1A6117

has Successfully completed a Course / Workshop / Seminar on "QUANTUM MECHANICS

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