



R K COLLEGE OF ENGINEERING

(Accredited by NAAC with 'A' Grade)

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

18th MARCH 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 "NANOMATERIALS"-Reg.

I am writing this letter to request permission for conducting a seminar entitled on "NANOMATERIALS" in Seminar Hall From 27th MARCH 2024 to 28th MARCH 2024. I wish to conduct a seminar on "NANOMATERIALS" in regards to understand the preparation and applications of Nanomaterials. 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 how Nanomaterials synthesis is applicable in various fields like Electronics, Pharmacy, agriculture, Environmental analysis, Energy, Textile, Automobiles and more Globally. By getting awareness on this topic every student should take a motivational step to educate everyone for sustainable development.

Thanking You Sir,

Yours Sincerely

Ch. Adilakshmi Devi
(CH.ADILAKSHMI DEVI)

PRINCIPAL

R K COLLEGE OF ENGINEERING
Kethanakonda (V), Ibrahimpatnam (M).
Vijayawada, AMARAVATI-521 456.

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Vijayawada, AMARAVATI-521 456

*Forwarded To
Principal Sir*



Harish K

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

20th MARCH 2024

From

Mr. V.MURALI KRISHNA,
Head of the Department,
Freshmen Engineering Department,
R K College of Engineering.

To

MS.G.SRILAKSHMI,
M.V.R COLLEGE OF ENGINEERING,
PARITALA.

Respected Mam,

Sub: Request invitation for delivering expert lecture one day seminar on "NANO MATERIALS"

The department of FED, RKCE Kethanakonda (V), Ibrahimpatnam (M), Amaravati, Andhra Pradesh is organizing A two days Seminar From 27th MARCH 2024 to 28th MARCH 2024 on "NANO MATERIALS" 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,

Yours Sincerely

(V. MURALI KRISHNA)

HOD FED

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A two days Seminar
on

"NANOMATERIALS"

Organized by

Department of FED

RK College of Engineering, Vijayawada

PROGRAMME FLOW

DAY-1 (27 th MARCH 2024)		
Time	Speaker	Topic to be delivered
10.00 AM to 10.15 AM	CH. ADILAKSHMIDEVI	Welcome speech
10.15 AM to 10.30 AM	K. DASARADHARAM	Introduction about the program
10.30 AM to 11.30 AM	MS.G.SRILAKSHMI Email: orugantisrilakshmi6@gmail.com Phone No: 9550397978	<ul style="list-style-type: none">• "NANOMATERIALS"• INTRODUCTION• CLASSIFICATION OF NANOMATERIALS
11.30 AM to 11.45	TEA BREAK	
11.45 AM to 01.00 PM	MS.G.SRILAKSHMI Email: orugantisrilakshmi6@gmail.com Phone No: 9550397978	<ul style="list-style-type: none">• PROPERTIES OF NANOMATERIALS• ITS APPLICATIONS
01.00 PM to 02.00 PM	LUNCH BREAK	
02.00 PM to 04.00 PM	MS.G.SRILAKSHMI Email: orugantisrilakshmi6@gmail.com Phone No: 9550397978	<ul style="list-style-type: none">• PREPARATION OF NANOMATERIALS• SOL-GEL METHOD,
DAY-2 (28 th MARCH 2024)		
Time	Speaker	Topic to be delivered
10.30 AM to 11.30 AM	MS.G.SRILAKSHMI Email: orugantisrilakshmi6@gmail.com Phone No: 9550397978	<ul style="list-style-type: none">• CVD, FULLERENES• ITS APPLICATIONS
11.30 AM to 11.45	TEA BREAK	
11.45 AM to 01.00 PM	MS.G.SRILAKSHMI Email: orugantisrilakshmi6@gmail.com Phone No: 9550397978	<ul style="list-style-type: none">• CARBON NANO TUBES• ITS APPLICATIONS
01.00 PM to 02.00 PM	LUNCH BREAK	
02.00 PM to 03.30 PM	MS.G.SRILAKSHMI Email: orugantisrilakshmi6@gmail.com Phone No: 9550397978	<ul style="list-style-type: none">• NANO WIRES, GRAPHINES• ITS APPLICATIONS
03.30 PM to 04.00 PM	Feedback from the participants and vote of thanks by Ms. V. SWARUPA	

Coordinators: Ms. CH. ADILAKSHMIDEVI,

Ms. V. SWARUPA

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Student Attendee for A Two Day Seminar on "NANO MATERIALS"

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	✓	✓
23	23MC1A0416	CHUNDRU SRI KRISHNA SATYANARAYANA	✓	✓
24	23MC1A0417	DABBUGUNTALA VENKATA SUBBAIAH	✓	✓
25	23MC1A0418	DEVU JAYA SREE	✓	✓
26	23MC1A0419	DHONI GANESH	✓	✓
27	23MC1A0420	DORA DEEPTIMAYEE	✓	✓
28	23MC1A0421	EGALAPATI INDRA	✓	✓
29	23MC1A0422	GATHUM MADHU SUDANA	✓	✓
30	23MC1A0423	GOLUKONDA VASANTH	✓	✓

Ch. Ad. Lakshmi Devi
Coordinators

Principals
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Sl. No.	Roll Number	Student Name	Signature of the students	
			Day - 1	Day - 2
31	23MC1A0424	GOLUKONDA VASANTH	✓	✓
32	23MC1A0425	GUDIPATI GURAVIAH	✓	✓
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	✓	✓

Ch. Adilakshmi Devi
Coordinators

[Signature]
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Student Attendee for A Two Day Seminar on "NANO MATERIALS"

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	✓	X
74	23MC1A0467	SHAIK ABDUL SATTAR	✓	✓
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	X	✓
86	23MC1A0479	DONEPUDI SUHAS	✓	✓
87	23MC1A0480	MOHAMMAD SAMEER	✓	✓
88	23MC1A0481	GAVADAKATLA NAGESWARA RAO	✓	✓
89	23MC1A0482	KALINGI MANIKANTA SAI	✓	✓
90	23MC1A0483	KALYANAM JASHUVA	✓	✓



Handwritten signature
Coordinators

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Student Attendee for A Two Day Seminar on "NANO MATERIALS"

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	✓	✓
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	✓	✓

Ch. Abhishek D.
Coordinators

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Student Attendee for A Two Day Seminar on "NANO MATERIALS"

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	X	✓
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		X
149	23MC1A4449	PATAPALYAM AADARSH	✓	✓
150	23MC1A4450	PENNAM LAHARI	✓	✓
151	23MC1A4451	PUTTA SAI LAKSHMI	✓	✓
152	23MC1A4452	SHAIK ABEED	✓	✓

Ch. A. Lakshmi Devi
Coordinators

[Signature]
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Principal

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[Signature]

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Student Attendee for A Two Day Seminar on NANO MATERIALS"

Sl. No.	Roll Number	Student Name	Signature of the students	
			Day - 1	Day - 2
153	23MC1A4453	SYED VAJID	✓	✓
154	23MC1A4454	TATTUKOLLA BHIMARAJU	✓	✓
155	23MC1A4455	THOTI CHANDU	✓	✓
156	23MC1A4456	VANGALA KIRANKUMAR REDDY	✓	X
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	✓	✓
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		✓



Ch. Ashwini Devi
Coordinators

HOD FED
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Student Attendee for A Two Day Seminar on "NANO MATERIALS"

Sl. No.	Roll Number	Student Name	Signature of the students	
			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	X	✓
196	23MC1A6136	MOHAMMAD ABDUL SOHEL	✓	✓
197	23MC1A6137	NASINA BALAJI	✓	✓
198	23MC1A6138	NEELABOINA RANGASWAMY	✓	✓
199	23MC1A6139	NEYALA 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 VYTLA	✓	✓
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 Day Seminar on "NANO MATERIALS"

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	✓	✓



Ch. Adilekshmi Devi
Coordinators

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Report on

A Twodays seminar on "NANOMATERIALS"

Title: "NANOMATERIALS"

Expert: MS.G.SRILAKSHMI

Email: orugantisrilakshmi6@gmail.com

Phone No: 9550397978

Date: From 27th MARCH 2024 to 28th MARCH 2024

Venue: Seminar Hall, Department of FED, RKCE.

Coordinators: CH.ADILAKSHMIDEVI

V. SWARUPA


Organized by: Freshmen Engineering Department

Total Participants attended: 222

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


Students of I-year II-Semester(CE, ME, ECE, AI ML & CSD) are attended the seminar about "NANOMATERIALS" with full attention throughout two days. MS.G.SRILAKSHMI had elaborately explained about the importance of NANOMATERIALS, Preparation and its Applications in various fields. He told about 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 M.V.R COLLEGE OF ENGINEERING as Assistant Professor in S&H Department. She is a dedicated woman with 10+ years of teaching experience in various institutions.

"NANOMATERIALS"

INTRODUCTION:

Nano science and technology is a broad and interdisciplinary area growing explosively worldwide in the past few years. Nanomaterials are cornerstones of nanoscience and nanotechnology. Now a days in research & development the major sectors are energy, environment, water technology, pharmaceuticals etc. The usage of nanomaterials are enormous as energy storage devices such as fuel cells, detection of threats in defense, navy, drug delivery and water purification. Industrial revolution has made life easy and pleasant. Today's high speed personal computers and mobile communications would not have certainly been possible without the use of nano science and nano technology.

MAIN TERMINOLOGY:

- Nano science and nanotechnology - The science and technology which deals with the particles in size between 1 to 100nm is known as nano science and nano technology.
- Classification of nanomaterials on the basis of dimensions

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On the basis of reduction in size of materials in different dimensions, nanomaterials are classified into three groups.

S. No.	Reduction in size in different coordinates	Size	Examples
1.	3-dimensions	< 100 nm	Nanoparticles, quantum dots
2.	2-dimensions	< 100 nm	Nanotubes, nanowires, nanofibers
3.	1-dimension	< 100 nm	Thin films, coatings

c) Classification based on pore dimensions

A useful way to classify nanoporous materials is by the diameter size of their pores, since most of the properties, which are interesting for the applications of adsorption and diffusion are dependent on this parameter. The prefix nano- means a typical dimension between 1 and 100 nm. In this range material properties change drastically, when materials interact with other molecules. In fact, pore diameter establishes the size of molecules that could diffuse inside and comparison between the pore size and the dimension of guest molecule gives an idea about diffusion and interaction properties. If the two dimensions are same, we can expect that the molecule-wall interaction will be prevalent along with the molecule-molecule interaction. By the other way, if guest molecules are smaller than the pore size, there will be less molecule wall interaction than the molecule-molecule interaction during the diffusion process.

According to IUPAC definition, nanoporous materials are classified in three main groups depending on their pore dimension:

Microporous materials ($d < 2$ nm): These materials have very narrow pores. They can host only small molecules, such as gases or linear molecules, and generally show slow diffusion kinetics and high interaction properties. They are generally used in gas purification systems, membrane filters or gas-storage materials.

Example: Na-Y and naturally occurring clay materials.

Mesoporous materials ($2 < d < 50$ nm): These materials have pores with diameter size enough to host some big molecules, for example aromatic systems or large polymeric monomers. Diffusion kinetics of the adsorbed molecules is often due to capillarity, with an initial interaction with the pore wall followed by pore filling. These systems can be used as nano-reactors for the polymerization or adsorbing systems for liquids or vapours.

Example: MCM-41, MCM48, SBA15 and carbon mesoporous materials etc.

Macroporous systems ($d > 50$ nm): Pores of these materials could host very large molecules, such as poly-aromatic systems or small biological molecules, and interactions with pore walls are often secondary respect to the interactions with other molecules, overall in the case of very small guest molecules. These materials are principally used as matrices to store functional molecules, as scaffolds to graft functional groups, such as catalytic centres, and as sensing

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materials, thanks to the quick diffusion of chemical species in the pore system.

Example: Carbon micro tubes, Porous gels and porous glasses

a) Synthetic approaches for nanomaterials

- (i) Bottom-up approach: The building of nanostructures starting with small components such as atoms or molecules is called bottom-up approach.

Ex: Chemical vapour deposition, Sol-Gel Process, Chemical Reduction methods, etc.

- (ii) Top-down approach: The process of making nanostructures starting with larger structures and breaking away to nano size is called top-down approach.

Ex: Lithography, Ball milling, Epitaxy, etc.

- b) Porosity – It is the ratio of pore volume to its total volume. Here, pore volume is the difference between the total volume and solid volume.

- c) Pore diameter - The average or effective diameter of the openings in a membrane, screen, or other porous material is known as pore diameter. Based on the pore diameter range, porous materials are classified into three types.

- (i) Microporous materials: They are materials having the average pore diameter less than

2nm Ex: Zeolites, organic frame works and surgical tape.

- (i) Mesoporous materials: They are materials having the average pore diameter in the range of 2nm to 50 nm Ex: Mobile Crystalline Materials (MCM-41), Mesoporous Molecular Sieves, Xerogels, Silica, Alumina, titanium Oxide and Niobium oxide materials.

- (ii) Macro porous materials: They are materials having the average pore diameter greater than 50nm. Ex: Porous glasses and Aerogels.

- d) Wafer - A wafer is a thin slice of semiconductor or substrate material.

- e) Sol - It is a colloidal suspension of very small solid particles in liquid medium. Ex: Ink and Blood.

- f) Gel - It is a colloidal suspension of very small liquid particles in solid medium Ex: agar, gelatin, jelly and tooth paste.

- g) Aerogel - It is a synthetic porous ultra-light material derived from a gel, in which the liquid component of the gel has been replaced with a gas. Ex: Silica aerogel, Alumina aerogel and carbon aerogel. Silica aerogel is a best insulator as well as lowest density solid. Its porosity is 99%, surface area is 1000 m²/gm, Its average pore size is 2-50nm.

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- h) Xerogel - A solid formed from a gel by drying with unhindered shrinkage is called a xerogel.
- i) Surface area - The accessible or detectable area of solid surface per unit mass of material is called the surface area.
- j) Characterization techniques of nanomaterials

S. No.	Techniques	Information acquired
1.	Scanning Electron Microscopy (SEM) with Energy-dispersive X-ray spectroscopy	Surface topography (up to 10nm) and composition
2.	Transmission Electron Microscopy (TEM)	Surface morphology (up to 0.2nm)
3.	Atomic Force Microscopy	Identification of individual surface atoms
4.	Particle Size Analyzer	Particle Size distribution
5.	FT-Raman Spectra	Distinguish single walled carbon nanotubes and multi walled carbon nanotubes
6.	Photoluminescence Spectra	CNT chirality or Asymmetry determination
7.	X-ray photoelectron spectroscopy	Electronic state of the element

- k) Chiral - A chiral molecule is a type of molecule that has non-superimposable mirror images (i.e. enantiomers).

Example: A carbon having four different substituents.

- l) Helicity - It is a form of axial chirality or with respect to axis non-superimposable mirror images. Example: Protein folding.

SIZE DEPENDENT PROPERTIES OF NANOMATERIALS:

The various properties, which get tremendously altered due to the size reduction in at least one dimension are:

- Chemical properties: Reactivity; Catalysis.
- Thermal property: Melting point temperature.
- Electronic properties: Electrical conduction.
- Optical properties: Absorption and scattering of light.
- Magnetic properties: Magnetization.

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Chemical Properties:

- Based on the surface area to volume effect, nanoscale materials have:
 - a) Increased total surface area.
 - b) Increased number of atoms accessible on the surface.
 - c) Increased catalytic activity of those large number surface atoms.
 - d) Different/tunable surface catalytic properties by the change in shape, size and composition.
- Hence, nanoscale catalysts can increase the rate, selectivity and efficiency of various chemical reactions.

Thermal Properties:

- The melting point of a material directly correlates with the bond strength. In bulk materials, the surface to volume ratio is small and hence the surface effects can be neglected. However, in nanomaterials the melting temperature is size dependent and it decreases with the decrease particle size diameters.
- The reason is that in nanoscale materials, surface atoms are not bonded in direction normal to the surface plane and hence the surface atoms will have more freedom to move.

Electronic Properties:

- In bulk materials, conduction of electrons is delocalized, that is electrons can move freely in all directions.
- When the scale is reduced to nanoscale, the quantum effect dominates. For zero dimensional nanomaterials, all the dimensions are at the nanoscale and hence the electrons are confined in 3-D space. Therefore, no electron delocalization (freedom to move) occurs.
- For one dimensional nanomaterials electrons confinement occurs in 2-D space and hence electron delocalization takes place along the axis of nanotubes/nanorods/nanowires.
- Due to electron confinement, the energy bands are replaced by discrete energy states which make the conducting materials to behave like either semiconductors or insulators.

Optical Properties:

Because of the quantum confinement in nanomaterials, the emission of visible light can be tuned by varying the nanoscale dimensions. It is observed that the size reduction in nanomaterials shifts the emission of peak towards the shorter wavelength (blue shift).

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- The size of magnetic nanoparticles also influences the value magnetization. It illustrates the effect of particle size on the saturation magnetization of zinc ferrite. The magnetization increases significantly below a grain size of 20nm. Hence, by decreasing the particle size of a granular magnetic material it is possible to improve the quality of magnets fabricated from it.

NANOPARTICLES

Particles or powders with particle size less than 100nm are called nanoparticles.

Synthesis of Nanoparticles by Chemical Reduction Method

Group VIB metal halides like CrCl_3 , MoCl_3 , WCl_4 can be reduced into their corresponding metals by using NaBH_4 (sodium triethoxy boron hydride) with toluene as the solvent at room temperature.

- (i) As the particle size decreases, surface area increases. This enhances the catalytic activity of the nanoparticles.
- (ii) Reduction of particle size from micron to nanometer scale influences their optical properties.

For Example: CdS in micron size appear as red, 6nm size appear orange in colour, 4nm size is yellow coloured and 2nm size appear as white.

- (iii) Reduction of particle size from micron to nanometer scale influences the thermal properties like melting point and thermal conductivity.

Applications of Nanoparticles:

- a) Silver nanoparticles have good antibacterial properties, and are used in surgical instruments, refrigerators, air-conditioners, water purifiers etc.
- b) Gold nanoparticles are used in catalytic synthesis of silicon nano wires, sensors carrying the drugs and in the detection of tumors.
- c) ZnO nanoparticles are used in electronics, ultraviolet (UV) light emitters, piezoelectric devices and chemical sensors.
- d) TiO_2 nanoparticles are used as photocatalyst and sunscreen cosmetics (UV blocking pigment).
- e) Antimony-Tin-Oxide (ATO), Indium-Tin-Oxide (ITO) nanoparticles are used in car windows, liquid crystal displays and in solar cell preparations.

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Feedback form for Two day Seminar on "NANO MATERIALS"

*(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	4	4	5	4	Good
3	23MC1A0103	Yes	Yes	5	5	5	5	5	Excellent
4	23MC1A0104	Yes	Yes	4	4	5	5	5	Good
5	23MC1A0105	Yes	Yes	4	4	5	5	5	Good
6	23MC1A0301	Yes	Yes	5	5	5	5	5	Excellent
7	23MC1A0302	Yes	Yes	5	4	4	5	5	Good
8	23MC1A0401	Yes	Yes	5	4	4	5	5	Good
9	23MC1A0402	Yes	Yes	5	5	5	5	5	Good
10	23MC1A0403	Yes	Yes	5	5	5	5	5	Good
11	23MC1A0404	Yes	Yes	4	5	4	5	5	Good
12	23MC1A0405	Yes	Yes	5	4	4	5	5	Good
13	23MC1A0406	Yes	Yes	5	4	5	5	5	Good
14	23MC1A0407	Yes	Yes	5	4	4	4	4	Good
15	23MC1A0408	Yes	Yes	4	4	5	5	4	Good
16	23MC1A0409	Yes	Yes	5	5	5	5	5	Good
17	23MC1A0410	Yes	Yes	4	5	5	4	5	Good
18	23MC1A0411	Yes	Yes	5	5	4	4	5	Good
19	23MC1A0412	Yes	Yes	5	5	4	5	5	Good
20	23MC1A0413	Yes	Yes	5	5	5	5	5	Good
21	23MC1A0414	Yes	Yes	5	5	5	5	5	Excellent
22	23MC1A0415	Yes	Yes	5	4	5	4	5	Good
23	23MC1A0416	Yes	Yes	5	5	5	4	5	Good
24	23MC1A0417	Yes	Yes	5	5	5	5	5	Excellent
25	23MC1A0418	Yes	Yes	5	5	5	5	5	Excellent
26	23MC1A0419	Yes	Yes	4	4	5	5	5	Good
27	23MC1A0420	Yes	Yes	4	4	5	5	5	Good
28	23MC1A0421	Yes	Yes	4	4	5	5	5	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
29	23MC1A0422	yes	yes	5	5	5	5	5	Excellent
30	23MC1A0423	yes	yes	5	5	4	5	5	Good
31	23MC1A0424	yes	yes	5	5	5	5	5	Excellent
32	23MC1A0425	yes	yes	5	4	4	5	5	Good
33	23MC1A0426	yes	yes	4	5	4	5	5	good
34	23MC1A0427	yes	yes	4	5	5	5	5	good.
35	23MC1A0428	yes	yes	5	5	5	5	5	Excellent
36	23MC1A0429	yes	yes	5	4	5	5	5	Good.
37	23MC1A0430	YES	YES	5	5	5	5	5	Excellent
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	5	5	5	5	Excellent
41	23MC1A0434	yes	yes	5	5	5	5	4	Good
42	23MC1A0435	YES	YES	5	5	5	5	5	Good
43	23MC1A0436	yes	yes	5	5	5	5	4	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	4	4	5	5	5	Good
47	23MC1A0440	yes	yes	5	5	5	4	5	Good
48	23MC1A0441	yes	yes	4	4	5	5	5	Good
49	23MC1A0442	YES	YES	5	5	5	5	5	Excellent
50	23MC1A0443	YES	YES	5	5	5	5	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	4	5	5	5	5	Good
54	23MC1A0447	yes	yes	5	4	4	5	5	Good
55	23MC1A0448	YES	YES	4	5	5	5	5	Good
56	23MC1A0449	yes	yes	5	5	5	5	5	Good

Ch. Adibekunidi
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57	23MC1A0450	Yes	Yes	5	4	4	4	5	Good
58	23MC1A0451	yes	yes	5	5	5	5	5	Excellent
59	23MC1A0452	yes	yes	5	5	5	5	5	Excellent
60	23MC1A0453	Yes	Yes	5	5	5	5	5	Excellent
61	23MC1A0454	yes	yes	5	4	5	5	5	Good
62	23MC1A0455	yes	yes	5	5	5	5	4	Good
63	23MC1A0456	yes	yes	5	5	5	5	5	excellent
64	23MC1A0457	yes	yes	5	5	5	5	5	excellent
65	23MC1A0458	yes	yes	5	5	5	5	5	excellent
66	23MC1A0459	yes	yes	4	5	5	5	5	Good
67	23MC1A0460	yes	yes	5	5	5	5	4	good
68	23MC1A0461	yes	yes	5	5	5	5	5	excellent
69	23MC1A0462	yes	yes	5	5	4	5	5	Good
70	23MC1A0463	yes	yes	5	5	5	5	5	excellent
71	23MC1A0464	yes	yes	5	5	4	5	5	Good
72	23MC1A0465	yes	yes	5	5	5	5	5	excellent
73	23MC1A0466	yes	yes	5	5	5	5	5	excellent
74	23MC1A0467	yes	yes	5	5	4	4	5	Good
75	23MC1A0468	yes	yes	5	4	5	4	5	Good
76	23MC1A0469	yes	yes	5	5	4	4	5	Good
77	23MC1A0470	yes	yes	5	5	5	5	5	excellent
78	23MC1A0471	yes	yes	5	4	5	4	5	Good
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	5	5	Good
82	23MC1A0475	yes	yes	5	5	5	5	5	excellent
83	23MC1A0476	yes	yes	5	5	5	5	5	Excellent
84	23MC1A0477	yes	yes	5	5	5	5	5	Good

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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	5	5	excellent
88	23MC1A0481	yes	yes	5	5	5	5	5	excellent
89	23MC1A0482	yes	yes	5	4	4	4	5	Good
90	23MC1A0483	yes	yes	5	5	4	4	4	Good
91	23MC1A0484	yes	yes	4	5	5	4	4	Good
92	23MC1A0485	yes	yes	4	5	4	5	4	Good
93	23MC1A0486	yes	yes	4	5	4	5	4	Good
94	23MC1A0487	yes	yes	5	5	4	4	4	Good
95	23MC1A0488	yes	yes	5	5	4	5	4	Good
96	23MC1A0489	yes	yes	5	5	5	5	5	excellent
97	23MC1A0490	yes	yes	5	5	4	5	5	Good
98	23MC1A0491	yes	yes	5	5	5	5	5	excellent
99	23MC1A0492	yes	yes	5	5	5	4	4	Good
100	23MC1A0493	yes	yes	5	4	5	4	5	Good
101	23MC1A4401	yes	yes	5	4	5	4	5	Good
102	23MC1A4402	yes	yes	5	5	4	4	4	Good
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	4	4	5	5	Good
106	23MC1A4406	yes	yes	5	5	4	5	4	Good
107	23MC1A4407	yes	yes	5	5	5	4	5	Good
108	23MC1A4408	yes	yes	4	4	5	5	5	Good
109	23MC1A4409	yes	yes	5	5	5	5	5	excellent
110	23MC1A4410	yes	yes	5	5	5	4	5	Good
111	23MC1A4411	yes	yes	5	5	4	4	4	Good
112	23MC1A4412	yes	yes	5	5	5	4	4	Good

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Feedback form for Two day Seminar on "NANO MATERIALS"

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113	23MCIA4413	yes	yes	5	5	4	4	4	Good
114	23MCIA4414	yes	yes	5	5	4	4	5	Good
115	23MCIA4415	yes	yes	5	5	5	5	4	Good
116	23MCIA4416	yes	yes	5	5	5	5	5	excellent
117	23MCIA4417	yes	yes	5	5	4	4	4	Good
118	23MCIA4418	yes	yes	5	4	5	4	5	Good
119	23MCIA4419	yes	yes	5	5	4	5	4	Good
120	23MCIA4420	yes	yes	4	5	4	5	5	Good
121	23MCIA4421	yes	yes	4	4	5	5	5	Good
122	23MCIA4422	yes	yes	4	5	4	5	4	Good
123	23MCIA4423	yes	yes	4	4	5	5	5	Good
124	23MCIA4424	yes	yes	5	5	5	5	5	excellent
125	23MCIA4425	yes	yes	4	4	5	5	5	Good
126	23MCIA4426	yes	yes	5	5	5	5	5	excellent
127	23MCIA4427	yes	yes	4	4	4	5	5	Good
128	23MCIA4428	yes	yes	5	4	5	4	5	Good
129	23MCIA4429	yes	yes	5	5	5	5	5	excellent
130	23MCIA4430	yes	yes	5	5	5	5	5	excellent
131	23MCIA4431	yes	yes	5	5	5	5	5	excellent
132	23MCIA4432	yes	yes	5	5	5	5	5	excellent
133	23MCIA4433	yes	yes	4	5	4	5	4	Good
134	23MCIA4434	yes	yes	5	5	5	5	5	Good
135	23MCIA4435	yes	yes	5	5	5	5	5	excellent
136	23MCIA4436	yes	yes	5	5	4	5	5	Good
137	23MCIA4437	yes	yes	5	5	5	4	5	Good
138	23MCIA4438	yes	yes	5	4	4	5	5	Good



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139	23MC1A4439	yes	yes	5	4	4	5	5	Good
140	23MC1A4440	yes	yes	5	4	5	5	5	Good
141	23MC1A4441	yes	yes	5	5	5	4	5	Good
142	23MC1A4442	yes	yes	5	5	4	4	5	Good
143	23MC1A4443	yes	yes	5	5	5	4	5	Good
144	23MC1A4444	yes	yes	5	5	5	5	5	excellent
145	23MC1A4445	yes	yes	5	5	4	4	5	Good
146	23MC1A4446	yes	yes	5	5	5	5	5	excellent
147	23MC1A4447	yes	yes	5	5	4	5	5	Good
148	23MC1A4448	yes	yes	5	5	4	4	4	Good
149	23MC1A4449	yes	yes	5	4	5	5	4	Good
150	23MC1A4450	yes	yes	5	5	5	5	5	Excellent
151	23MC1A4451	yes	yes	5	4	4	5	5	Good
152	23MC1A4452	yes	yes	4	5	4	5	4	Good
153	23MC1A4453	yes	yes	5	5	4	5	5	Good
154	23MC1A4454	yes	yes	5	4	4	4	5	Good
155	23MC1A4455	yes	yes	5	5	4	4	4	Good
156	23MC1A4456	yes	yes	4	5	4	5	4	Good
157	23MC1A4457	yes	yes	4	5	4	4	5	Good
158	23MC1A4458	yes	yes	5	5	5	5	5	excellent
159	23MC1A4459	yes	yes	5	5	5	5	5	excellent
160	23MC1A4460	yes	yes	5	4	4	5	5	Good
161	23MC1A6101	yes	yes	5	5	5	5	5	excellent
162	23MC1A6102	yes	yes	5	5	5	5	5	excellent
163	23MC1A6103	yes	yes	5	5	5	4	4	Good
164	23MC1A6104	yes	yes	5	5	4	4	5	Good

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Feedback form for Two day Seminar on NANO MATERIALS"

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



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191	23MC1A6131	Yes	Yes	5	5	5	5	5	Excellent
192	23MC1A6132	Yes	Yes	4	4	4	5	5	Good
193	23MC1A6133	Yes	Yes	4	4	5	5	5	Good
194	23MC1A6134	Yes	Yes	5	4	5	4	5	Good
195	23MC1A6135	Yes	Yes	5	5	4	5	4	Good
196	23MC1A6136	Yes	Yes	4	4	5	5	5	Good
197	23MC1A6137	Yes	Yes	4	5	4	5	5	Good
198	23MC1A6138	Yes	Yes	4	4	5	5	5	Good
199	23MC1A6139	Yes	Yes	5	4	5	4	5	Good
200	23MC1A6140	Yes	Yes	4	4	4	5	5	Good
201	23MC1A6141	Yes	Yes	4	5	4	5	5	Good
202	23MC1A6142	Yes	Yes	5	4	5	4	5	Good
203	23MC1A6143	Yes	Yes	4	4	5	5	5	Good
204	23MC1A6144	Yes	Yes	4	4	5	5	5	Good
205	23MC1A6145	Yes	Yes	5	5	5	5	5	Excellent
206	23MC1A6146	Yes	Yes	5	5	5	5	5	Excellent
207	23MC1A6147	Yes	Yes	5	5	5	5	5	Excellent
208	23MC1A6148	Yes	Yes	5	5	5	5	5	Excellent
209	23MC1A6149	Yes	Yes	4	4	5	5	5	Good
210	23MC1A6150	Yes	Yes	5	5	5	5	5	Excellent
211	23MC1A6151	Yes	Yes	5	5	5	5	5	Excellent
212	23MC1A6152	Yes	Yes	5	5	5	5	5	Excellent
213	23MC1A6153	Yes	Yes	5	5	4	5	4	Good
214	23MC1A6154	Yes	Yes	5	5	5	5	5	Excellent
215	23MC1A6155	Yes	Yes	5	5	5	5	5	Excellent
216	23MC1A6156	Yes	Yes	4	4	5	5	4	Good

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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	4	5	4	Good
220	23MC1A6160	YES	YES	5	5	5	5	5	Excellent
221	23MC1A6161	Yes	Yes	4	4	5	5	5	Good
222	23MC1A6162	Yes	Yes	5	5	5	5	5	Excellent
223	23MC1A6163	Yes	Yes	5	5	5	5	5	Excellent
224	23MC1A6164	Yes	Yes	5	4	5	4	5	Good
225	23MC1A6165	Yes	Yes	5	5	5	5	5	Excellent
226	23MC1A6166	Yes	Yes	5	4	5	4	5	Good

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Certificate



This is to certify that Mr./[✓]Ms. DORA DEEPTHIMAYEE - 23MCIA0420

has Successfully completed a Course / Workshop / [✓]Seminar on "NANO MATERIALS

" from 27/03/2024 to 28/03/2024

in association with G. SRILAKSHMI - MVRCE at RK College of Engineering.

Ch. Adilakshmi Devi
CO-ORDINATOR

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