



R K COLLEGE OF ENGINEERING

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

Date:26-01-2024

To,
The Principal
RK College of Engineering.

Through HOD-M.E

Sub: Seeking permission to conduct Two days Workshop on "3D PRINTING TECHNOLOGY"

Sir,

I am writing to seek your kind permission to conduct a workshop on "3D PRINTING TECHNOLOGY" on 29 & 30th Jan 2024 for the students and The objective of this workshop is to create three-dimensional objects from a digital model by layering materials in a precise, controlled manner.

This will be a very informative seminar for many students.

Thanking you Sir

Yours Sincerely

*Thw to principal by
M. Contho done by Sir*

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Dr. G. N.
Dr.G.NARENDRA SANTHOSH KUMAR
ASSOCIATE PROFESSOR
ME Dept.

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Date:26-01-2024

To
Dr. K. SATYANARAYANA
Professor, Department of Mechanical Engineering
VVIT, NAMBUR

Sir,

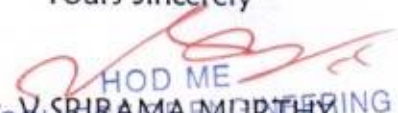
Subject : Request invitation for Conducting Two days workshop on "3D PRINTING TECHNOLOGY" on dates 29-01-2024 & 30-01-2024— Reg.

Respected Sir,

The department of M.E, RKCE, Kethanakonda (V), Ibrahimpatnam (M), Andhra Pradesh is organizing a two-days Seminar on "3D PRINTING TECHNOLOGY" 29-01-2024 & 30-01-2024. I am 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.

Thanking You,

Yours Sincerely


HOD ME
Mr. V. SRIRAMA MURTHY
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TWO-DAYS WORKSHOP ON "3D PRINTING TECHNOLOGY"

Organized by
Department of Mechanical Engineering
RK College of Engineering, Vijayawada

PROGRAMME FLOW – 29-01-2024.

TIME	SPEAKER	TOPIC TO BE DELIVERED
10:00AMto 10:15AM	Dr.G. NARENDRA SANTHOSH KUMAR	Welcome speech
10:15AMto 10:30AM	Dr.G. NARENDRA SANTHOSH KUMAR	Introduction about the program
10:30AMto 11:30AM	Dr. K. SATYANARAYANA Professor, Department of Mechanical Engineering VVIT ,Nambur Email: satyam918@gmail.com Phone No: 9440484851	Introduction to additive manufacturing
11:30AMto 11 :45	<i>TEA BREAK</i>	
11:45AMto 01:00 PM	Dr. K. SATYANARAYANA Professor, Department of Mechanical Engineering VVIT ,Nambur Email: satyam918@gmail.com Phone No: 9440484851	Step by step process for additive manufacturing
01:00 PMto 02:00 PM	<i>LUNCHBREAK</i>	
02:00 PMto 03:30 PM	Dr. K. SATYANARAYANA Professor, Department of Mechanical Engineering VVIT ,Nambur Email: satyam918@gmail.com Phone No: 9440484851	Different Materials used in 3d printing

Coordinator:Dr.G. NARENDRA SANTHOSH KUMAR

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TWO-DAYS WORKSHOP ON "3D PRINTING TECHNOLOGY"

Organized by
Department of Mechanical Engineering
R K College of Engineering, Vijayawada

PROGRAMME FLOW – 30-01-2024

TIME	SPEAKER	TOPIC TO BE DELIVERED
10:30AM to 11:30AM	Dr. K. SATYANARAYANA Professor, Department of Mechanical Engineering VVIT ,Nambur Email:satyam918@gmail.com Phone No: 9440484851	Comparison between additive and conventional manufacturing
11:30AM to 11 : 45 AM	<i>TEA BREAK</i>	
11:45AM to 01:00 PM	Dr. K. SATYANARAYANA Professor, Department of Mechanical Engineering VVIT ,Nambur Email: satyam918@gmail.com Phone No: 9440484851	3d printing working process & its principle
01:00 PM to 02:00 PM	<i>LUNCH BREAK</i>	
02:00 PM to 03:30 PM	Dr. K. SATYANARAYANA Professor, Department of Mechanical Engineering VVIT ,Nambur Email: satyam918@gmail.com Phone No: 9440484851	Advantages , applications and challenges of additive manufacturing
03:30 PM to 04:00 PM	<i>Feedback from the participants and vote of thanks by Dr.G Narendra Santhosh Kumar</i>	

Coordinators : Dr. G. NARENDRA SANTHOSH KUMAR

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Student Attendance for Workshop on "3D PRINTING TECHNOLOGY"

SL. NO.	ROLL NUMBER	STUDENT NAME	Attendance	
			DAY-1	DAY-2
1	22MC1A0301	KUMMARI MAHIMAKAR	✓	✓
2	22MC1A0302	PUSAM SIVARAJ	✓	✓
3	23MC5A0301	BALLENI KIRAN KUMAR	✓	✓
4	23MC5A0302	CHATRAGADDA BHAVANI	✓	✓
5	23MC5A0303	CHITEMPALLI YOGI MADHAVAN	✓	✓
6	23MC5A0304	DAMODAR K N	✓	✓
7	23MC5A0305	GAJULA RAMA VENKATA SUBHASH	✓	✓
8	23MC5A0306	GASYA SAI KRISHNA	✓	✓
9	23MC5A0307	LANKA PAVAN KUMAR	✓	✓
10	23MC5A0308	PATIL NAVEEN KUMAR	✓	✓
11	23MC5A0309	PEKETI VENKATA SATYA SURYA SAI RAM	✓	✓
12	23MC5A0310	RAMISETTY SAI KRISHNA	✓	✓
13	23MC5A0311	RAYAPUDI DURGA PRASAD	✓	✓
14	23MC5A0312	TENTI SAI LOKESH	✓	✓
15	23MC5A0313	TUMMA KALYAN RAM	✓	X
16	23MC5A0314	VEERAMACHANENI TARUN CHOWDARY	✓	✓
17	23MC5A0315	BHIMAVARAM SIVA KARTHIK	✓	✓
18	23MC5A0316	SHAIK SHAM SHEER ALI	✓	✓
19	23MC5A0317	MOHAMMED IRSHAD	✓	✓
20	23MC5A0318	PATHAN KHADAR BABU	✓	X
21	21MC1A0301	GURRAPPAR GARU GANDHI	✓	✓
22	21MC1A0302	NAGARAKANTI BALAJI	✓	✓
23	21MC1A0303	POLUBOINA RAMESH	✓	✓
24	21MC1A0304	PUPPALA PURNA NAGA SIVA KARTHIK	✓	✓
25	22MC5A0301	ADDEPALLI KALYAN	✓	✓
26	22MC5A0303	BEZAWADA SRINIVAS	✓	X
27	22MC5A0305	DARLA VENNELA VARSHA	✓	✓
28	22MC5A0306	DRONADULA MANIKANTA KALYAN	✓	✓
29	22MC5A0307	GUJJULA PRAVEEN	✓	✓
30	22MC5A0308	JAMPANA SRI HARI VARMA	✓	✓
31	22MC5A0310	KANUMURI GIRIDHAR GOPAL	✓	✓
32	22MC5A0313	MADIREDDY HARISH	✓	✓
33	22MC5A0314	PAMIDIMUKKALA CHARAN RAVI KISHOR	✓	✓
34	22MC5A0315	PARNA ANIL SIVA SAI KISHORE	✓	✓


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35	22MC5A0316	PATHAN BAJI BABA	✓	✓
36	22MC5A0317	PENUMUDI SHANMUKHA NAVEEN	✓	✓
37	22MC5A0318	PERAVALI SUMANTH KUMAR	✓	✓
38	22MC5A0319	RAGAM SRINIVAS	✓	✓
39	22MC5A0320	RAMALA ADONI RAMJEDSON	✓	✓
40	22MC5A0321	RAYI HARI SAI RAM	✓	✓
41	22MC5A0322	SAMANASI SATISH KUMAR	✓	✓
42	22MC5A0323	SHAIK ABDULSAIDA	✓	✓
43	22MC5A0324	SHAIK BASHA	✓	✓
44	22MC5A0325	SOMARAJU UMA KRISHNA	✓	✓
45	22MC5A0326	TIKATI GANGADHAR RAO	✓	✓
46	22MC5A0327	VANKAYALAPATI HARSHAVARDHAN	✓	✓
47	22MC5A0330	YADARI RADHA GOVIND	✓	✓
48	22MC5A0331	YADLA CHAKRADHAR	✓	✓
49	22MC5A0333	BOKINALA JASWANTH	✓	✓
50	22MC5A0334	MYLABATHUKA YANI REACHEL	✗	✓
51	20MC1A0301	BUDDAPPAGARI SREENIVAS	✓	✓
52	20MC1A0302	DERANGULA GANESH KUMAR	✓	✓
53	20MC1A0303	KUNIBANDA NARESH	✓	✓
54	20MC1A0304	M SUNIL KUMAR	✓	✓
55	20MC1A0305	NEELAM VENKATESWARLU	✓	✓
56	20MC1A0306	PEESA LAKSHMANA RAO	✓	✓
57	20MC1A0308	TIRUVEEDHULA AKHIL SAI	✓	✓
58	21MC5A0301	AARIMALLA MANI KUMAR	✓	✓
59	21MC5A0302	ABDUL IMRAN	✓	✓
60	21MC5A0303	ADIVISHNU NAGA VENKATA SAI KRISHNA	✓	✓
61	21MC5A0304	ATHUKURI RAJESH KUMAR	✓	✓
62	21MC5A0305	CHUNDURI AJAY	✓	✓
63	21MC5A0307	GAMPALA GANGADHAR	✓	✓
64	21MC5A0308	GANDIKOTA RAJKUMAR	✓	✓
65	21MC5A0309	GAVIRISETTI ABHISHEK	✓	✓
66	21MC5A0310	KAKUMANI ABHIRAM	✓	✗
67	21MC5A0311	YERUVA VENKATAPAVANKUMARREDDY	✓	✓
68	21MC5A0312	KATEPOGU DAMODAR	✓	✓
69	21MC5A0313	KATTA NAGA KOTI	✓	✓
70	21MC5A0314	KOMARAVALLI CHANDU	✓	✓
71	21MC5A0315	KUNA SAI VAMSI	✓	✓
72	21MC5A0316	KURAGANTI JOSHI	✓	✓
73	21MC5A0318	MADANA RAMAKRISHNA	✓	✓
74	21MC5A0321	MAMIDI MAHESHKUMAR	✓	✓
75	21MC5A0322	MARIDU RAVI TEJA	✓	✓


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76	21MC5A0323	NAGAM ACHYUTH	✓	✓
77	21MC5A0325	PATAN SULEMAN KHAN	✓	✓
78	21MC5A0326	PILLI HEMANTH	✓	✓
79	21MC5A0327	POTHURI NAGAVENDRA BABU	✗	✓
80	21MC5A0329	SEELAM NAVEEN	✓	✓
81	21MC5A0330	SHAIK GOUSE RABBANI	✓	✓
82	21MC5A0332	SONTI VIJAY KUMAR	✓	✓
83	21MC5A0333	VEERANKI BHARATH KUMAR	✓	✓
84	21MC5A0335	VEMPAADA GOVIND	✓	✓
85	21MC5A0336	YARRA KUSHAL KUMAR	✓	✓
86	21MC5A0337	TATAKULA NAGA DEEPAK KRISHNA	✓	✓
87	20MC5A0310	PUSUNURU YUVARAJ	✓	✓
88	21MC1A0101	INAGANTI KISHORE KUMAR	✓	✓
89	21MC1A0102	MAHAMMAD IBRAHIM	✓	✗
90	21MC1A0103	MASANAM RAJESH	✓	✓
91	21MC1A0104	MEKALA RAJU	✓	✓
92	21MC1A0105	NALI GURUSHANKAR	✓	✓
93	21MC1A0106	PATNAM RAVINDRA KUMAR	✓	✓
94	21MC1A0107	PIDAKA ATCHUTA VEERESH	✓	✓
95	21MC1A0108	PORLA SATHISH	✓	✓
96	21MC1A0109	SINGA SAMUEL RAJU	✓	✓
97	22MC5A0101	ANNAVARAPU PUJITHA	✓	✓
98	22MC5A0102	KOMRA JAGADEESHWARI	✗	✓
99	22MC5A0103	KONDRU CHAKRI	✓	✓
100	22MC5A0105	MIRIYALA RAVITEJA	✓	✓
101	22MC5A0106	SAIKAM SANDEEP	✓	✓
102	22MC5A0107	SHAIK SUBHANI	✓	✗


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Date:30-01-2024

REPORT ON TWO DAYS WORKSHOP ON "3D PRINTING TECHNOLOGY"

Title:"3D PRINTING TECHNOLOGY"

Expert: Dr. K. SATYANARAYANA
Professor, Department of Mechanical Engineering
VVIT ,Nambur

Email: satyam918@gmail.com

Phone No: 9440484851 Date: 29 & 30th JAN,2024

Venue: RoomNumber 16 , Department of Mechanical Engineering, RKCE.

Coordinators: Dr.G. NARENDRA SANTHOSH KUMAR

Organized by: Mechanical Engineering

Total Participants attended:102

Detailsof Participants: Students of II,III and IV Year 1stsemester.

Students of II,III and IV Year 1stsemester have attended the Workshop on "3D PRINTING TECHNOLOGY" with full enthusiasm.Dr. K. SATYANARAYANA has elaborately explained about the I.C Engines and Also, he explained about the various types of engines and its working ,Process & its Principle. This seminar was very useful as well as educative for the participants.


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Resource Person Profile



Presently working as Professor & academics dean of Mechanical Engineering Department at VVIT,NAMBUR from May 2007 (Responsibilities: Teaching UG and PG Students of Mechanical Engineering and performing the works assigned Principal). Having 21 years of Teaching in Mechanical Engineering.

ABOUT 3D printing:

3D printing (also known as additive manufacturing) is a process of creating three-dimensional objects by depositing material layer by layer based on a digital design. Unlike traditional manufacturing methods, which often involve subtracting material from a solid block (e.g., machining or milling), 3D printing adds material only where it's needed, allowing for highly customized and intricate designs.

The need for 3D printing arises from its ability to address a variety of challenges across industries and offer unique advantages over traditional manufacturing methods

Dr. G. S. K.

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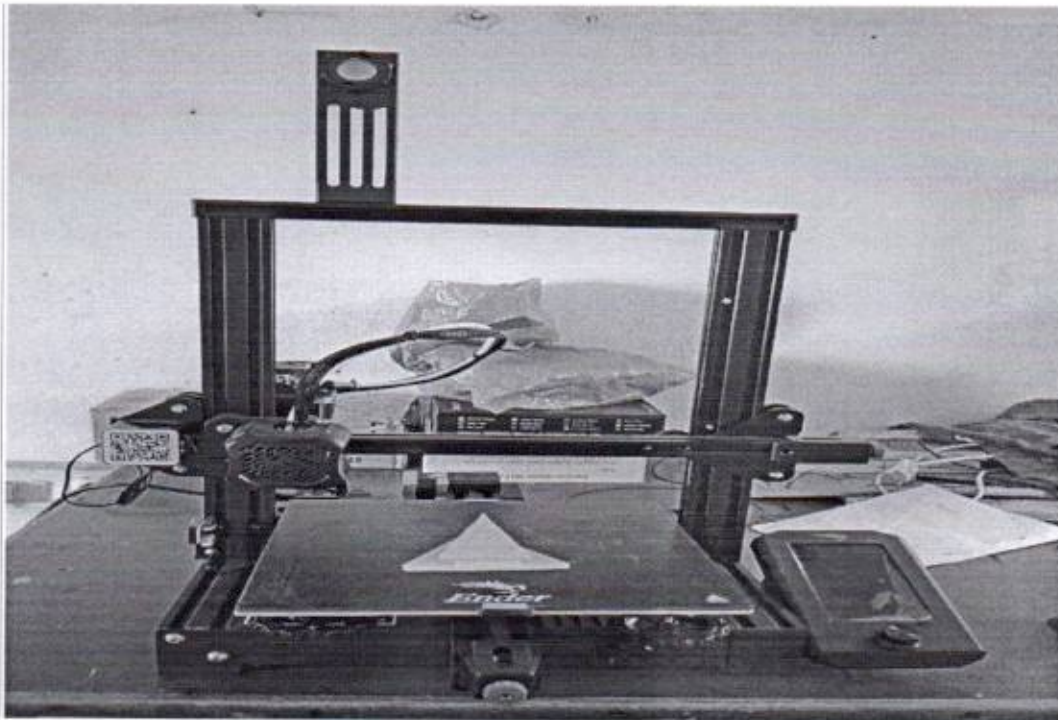
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REPORT ON "3D PRINTING TECHNOLOGY"

How 3D Printing Works:

1. **Digital Model Creation:** A 3D object is designed using Computer-Aided Design (CAD) software, which is then converted into a digital file, often in formats like STL or OBJ.
2. **Slicing:** The digital model is "sliced" into thin horizontal layers by specialized slicing software, which then generates a set of instructions (G-code) that tells the 3D printer how to construct the object layer by layer.
3. **Material Deposition:** The 3D printer uses materials like plastic, metal, or resin, which are deposited layer by layer to form the object. The material is often heated or solidified to bind the layers together.
4. **Post-Processing:** After printing, the object may need some finishing work, like cleaning, curing (for resin-based prints), or assembly (if it's printed in parts).



Dr. G. V.

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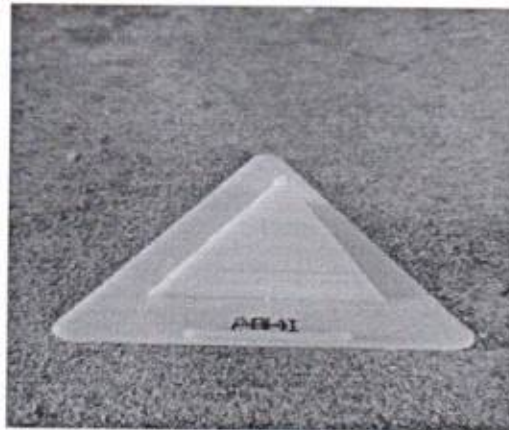
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Types of 3D Printing Technologies:

1. Fused Deposition Modeling (FDM): This is the most common type of 3D printing for home and industrial use. It involves melting a filament (usually plastic) and extruding it through a nozzle to build the object layer by layer.


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2. **Stereolithography (SLA):** A resin-based 3D printing process that uses ultraviolet (UV) light to cure liquid resin, layer by layer. It's known for high accuracy and smooth finishes.
3. **Selective Laser Sintering (SLS):** This process uses a laser to sinter powdered material (such as nylon or metal powder), fusing the particles together to form a solid structure. It's commonly used for prototyping and functional parts.
4. **Digital Light Processing (DLP):** Similar to SLA, DLP uses light to cure resin, but it uses a digital light projector to flash the entire layer at once, making it faster than SLA.
5. **Multi Jet Fusion (MJF):** This technique sprays binding agents onto powdered materials (often plastic or metal) layer by layer, followed by heat to fuse the material. It's known for producing strong, durable parts.
6. **Electron Beam Melting (EBM):** Used mainly for metal parts, this process uses an electron beam to melt metal powder, which is then solidified layer by layer.

Applications of 3D Printing:

1. **Prototyping:** 3D printing allows rapid prototyping, enabling designers and engineers to quickly create and test prototypes before mass production, significantly reducing development time and cost.
2. **Manufacturing:** It is increasingly used for manufacturing parts, especially in industries like aerospace, automotive, and medical devices, where complex geometries are required.
3. **Medical:** 3D printing is revolutionizing healthcare, enabling the creation of custom implants, prosthetics, and even bioprinted tissues and organs.
4. **Aerospace and Automotive:** Companies in these industries use 3D printing to manufacture lightweight and complex parts, often reducing material waste and cost.
5. **Architecture and Construction:** 3D printing is being explored for building homes and large structures. It can allow for rapid, customized, and low-cost construction.
6. **Fashion and Jewelry:** Designers are using 3D printing to create intricate patterns and designs in jewelry and fashion items that would be difficult or impossible with traditional methods.
7. **Food:** 3D printing technology is also being used to print food, creating intricate shapes or even custom food products.


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8. **Education and Research:** It enables students and researchers to create models for learning, experimentation, and demonstrations, making complex concepts tangible.

Benefits of 3D Printing:

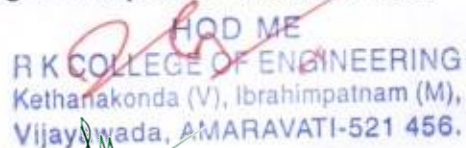
1. **Customization:** 3D printing allows for the creation of customized products, such as personalized medical devices or tailored consumer goods, without the need for expensive molds or tooling.
2. **Reduced Waste:** Because 3D printing adds material only where it's needed (compared to subtractive manufacturing), it results in less material waste.
3. **Complex Geometries:** It can produce intricate and complex shapes that would be difficult or impossible to achieve with traditional manufacturing methods.
4. **Cost-Effective for Low-Volume Production:** It's ideal for creating small batches of products or one-off prototypes, where traditional manufacturing processes would be cost-prohibitive.
5. **Speed:** 3D printing allows for faster production times, especially for prototypes or parts that would take longer to create with traditional methods.
6. **Supply Chain Flexibility:** On-demand manufacturing and localized production are possible, reducing the need for large inventories and long supply chains.

Challenges of 3D Printing:

1. **Material Limitations:** While the variety of printable materials has increased, there are still fewer material choices compared to traditional manufacturing methods.
2. **Speed and Scale:** For large-scale production, 3D printing can be slower compared to mass production techniques like injection molding.
3. **Surface Finish:** Depending on the printing technology, parts may have rough surfaces that require post-processing.
4. **Cost:** High-end 3D printers and materials can be expensive, particularly for industries that require precision and high-strength parts.
5. **Size Limitations:** 3D printers are often limited in the size of the objects they can print, although large-scale printers are being developed for industrial uses.



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The Future of 3D Printing:

3D printing continues to evolve with advancements in materials, technology, and speed. It holds significant promise for industries like healthcare, manufacturing, and even space exploration (such as printing parts on Mars). As technology improves and costs decrease, 3D printing is likely to become more mainstream and even more integrated into everyday life.


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Feedback form for Two days workshop on "3D PRINTING TECHNOLOGY"

* (0-Low, 5 High)

Sl. 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	22MC1A0301	Yes	Yes	5	4	4	4	4	Good
2	22MC1A0302	Yes	Yes	5	4	5	4	4	Good
3	23MC5A0301	Yes	Yes	5	4	4	4	4	Good
4	23MC5A0302	Yes	Yes	5	5	4	5	4	Good
5	23MC5A0303	Yes	Yes	5	5	5	5	5	Excellent
6	23MC5A0304	Yes	Yes	4	5	4	5	4	Good
7	23MC5A0305	Yes	Yes	5	5	4	5	4	Good
8	23MC5A0306	Yes	Yes	4	5	4	5	4	Good
9	23MC5A0307	Yes	Yes	5	4	5	4	5	Excellent
10	23MC5A0308	Yes	Yes	5	5	4	4	5	Excellent
11	23MC5A0309	Yes	Yes	5	5	4	4	5	Good
12	23MC5A0310	Yes	Yes	5	4	4	4	4	OK
13	23MC5A0311	Yes	Yes	5	4	4	4	5	Good
14	23MC5A0312	Yes	Yes	5	4	4	4	5	OK.


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15	23MC5A0313	Yes	Yes	5	5	5	4	4	Very Good
16	23MC5A0314	Yes	Yes	5	5	5	4	5	Good
17	23MC5A0315	Yes	Yes	5	5	4	5	5	Very good
18	23MC5A0316	Yes	Yes	5	5	4	3	5	Good
19	23MC5A0317	Yes	Yes	5	4	5	4	5	Good
20	23MC5A0318	Yes	Yes	5	4	5	4	5	Good
21	21MC1A0301	Yes	Yes	5	4	5	4	4	Good
22	21MC1A0302	Yes	Yes	4	5	4	5	4	Average
23	21MC1A0303	Yes	Yes	5	5	4	4	5	Good
24	21MC1A0304	Yes	Yes	5	5	4	4	4	Not Good
25	22MC5A0301	Yes	Yes	4	4	5	5	4	Good
26	22MC5A0303	YES	YES	4	5	5	4	4	OK, not bad.
27	22MC5A0305	Yes	Yes	5	4	5	4	5	Good.
28	22MC5A0306	Yes	Yes	5	4	5	4	5	Good
29	22MC5A0307	Yes	Yes	4	5	4	5	4	Good
30	22MC5A0308	Yes	Yes	4	5	5	4	4	OK
31	22MC5A0310	YES	YES	4	4	4	4	4	Average
32	22MC5A0313	Yes	Yes	5	5	5	5	5	Excellent

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33	22MC5A0314	Yes	Yes	5	5	5	5	5	5	Excellent
34	22MC5A0315	Yes	Yes	5	4	5	5	5	5	Good
35	22MC5A0316	Yes	Yes	5	4	5	5	4	4	Good
36	22MC5A0317	Yes	Yes	4	5	4	5	4	4	Good
37	22MC5A0318	Yes	Yes	5	4	4	4	4	4	ok
38	22MC5A0319	Yes	Yes	4	5	5	5	4	4	Better
39	22MC5A0320	Yes	Yes	4	5	4	5	4	4	Good
40	22MC5A0321	Yes	Yes	5	5	5	5	5	5	Excellent
41	22MC5A0322	Yes	Yes	4	4	4	5	4	4	Good
42	22MC5A0323	Yes	Yes	4	5	4	5	4	4	Good
43	22MC5A0324	Yes	Yes	5	4	5	4	5	5	Good
44	22MC5A0325	Yes	Yes	4	5	5	4	5	5	Good
45	22MC5A0326	Yes	Yes	4	5	4	5	4	4	Good
46	22MC5A0327	Yes	Yes	5	5	5	5	4	4	Good
47	22MC5A0330	Yes	Yes	4	5	4	5	4	4	Good
48	22MC5A0331	Yes	Yes	4	4	5	4	5	5	Good
49	22MC5A0333	Yes	Yes	5	5	5	4	5	5	Good
50	22MC5A0334	Yes	Yes	4	4	4	4	4	4	good

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51	20MC1A0301	Yes	Yes	5	5	5	4	4	Good
52	20MC1A0302	Yes	Yes	5	4	4	4	5	Good
53	20MC1A0303	Yes	Yes	5	5	5	5	5	Good
54	20MC1A0304	Yes	Yes	4	4	4	4	4	Good
55	20MC1A0305	Yes	Yes	4	4	5	4	5	Good
56	20MC1A0306	Yes	Yes	5	5	4	5	4	Good
57	20MC1A0308	Yes	Yes	5	5	5	5	5	Excellent
58	21MC5A0301	Yes	Yes	4	5	4	4	5	Excellent
59	21MC5A0302	Yes	Yes	5	5	5	5	5	Good
60	21MC5A0303	Yes	Yes	4	4	4	4	4	Good
61	21MC5A0304	Yes	Yes	4	4	4	4	4	Good
62	21MC5A0305	Yes	Yes	5	5	5	5	5	Good
63	21MC5A0307	Yes	Yes	5	5	5	5	5	Good
64	21MC5A0308	Yes	Yes	5	5	4	4	5	Good
65	21MC5A0309	Yes	Yes	5	5	5	4	4	Good
66	21MC5A0310	Yes	Yes	4	4	4	5	4	Good
67	21MC5A0311	Yes	Yes	4	5	4	5	4	Good
68	21MC5A0312	Yes	Yes	4	5	4	4	4	Good

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69	21MC5A0313	Yes	Yes	5	5	5	4	4	Better
70	21MC5A0314	Yes	Yes	5	5	5	5	5	Excellent
71	21MC5A0315	Yes	Yes	5	5	4	4	4	Good
72	21MC5A0316	Yes	Yes	5	5	5	5	4	OK
73	21MC5A0318	Yes	Yes	5	5	4	4	5	Good
74	21MC5A0321	Yes	Yes	5	5	4	4	4	OK
75	21MC5A0322	Yes	Yes	4	5	4	5	4	good
76	21MC5A0323	Yes	Yes	5	5	5	4	4	Good
77	21MC5A0325	Yes	Yes	5	5	5	5	5	Excellent
78	21MC5A0326	Yes	Yes	5	5	4	4	5	Good
79	21MC5A0327	Yes	Yes	5	5	5	5	4	Good
80	21MC5A0329	Yes	Yes	5	5	5	5	5	Excellent
81	21MC5A0330	Yes	Yes	4	4	4	4	4	OK
82	21MC5A0332	Yes	Yes	5	4	4	4	5	Good
83	21MC5A0333	Yes	Yes	5	4	4	4	5	Good
84	21MC5A0335	Yes	Yes	5	5	5	5	5	Good
85	21MC5A0336	Yes	Yes	5	5	5	5	4	Good
86	21MC5A0337	Yes	Yes	5	5	4	5	4	Good

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87	20MC5A0310	Yes	Yes	4	5	4	4	5	good
88	21MC1A0101	Yes	Yes	4	5	5	4	5	good
89	21MC1A0102	Yes	Yes	5	5	4	5	5	Very good
90	21MC1A0103	Yes	Yes	4	5	4	5	4	Better
91	21MC1A0104	Yes	Yes	5	5	5	5	5	Very good
92	21MC1A0105	Yes	Yes	5	4	5	4	5	good
93	21MC1A0106	Yes	Yes	4	4	4	5	4	Good
94	21MC1A0107	Yes	Yes	5	4	5	4	5	good
95	21MC1A0108	Yes	Yes	4	5	5	4	5	good
96	21MC1A0109	Yes	Yes	5	4	5	5	4	Good
97	22MC5A0101	Yes	Yes	4	4	4	4	4	ok
98	22MC5A0102	Yes	Yes	5	4	5	4	5	good
99	22MC5A0103	Yes	Yes	4	4	4	4	4	good
100	22MC5A0105	Yes	Yes	5	5	5	5	4	good
101	22MC5A0106	Yes	Yes	4	5	5	5	5	Very good
102	22MC5A0107	Yes	Yes	5	5	4	4	5	Good

Dr. G.
COORDINATOR

Harsh
Coordinator-IQAC
RKCE

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Vijayawada, AMARAVATI-521 456.
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Phone No: 08659 - 282956 / 66

Website: www.rkce.in



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