



R K COLLEGE OF ENGINEERING

(Accredited by NAAC with 'A' Grade)

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

Date:02-03-2024

To,
The Principal
RK College of Engineering.

Through HOD-M.E

Sub: Seeking permission to conduct Two days Seminar on "Seminar On Subtractive And Additive Manufacturing Techniques".

Sir,

I request you to kindly grant permission to conduct a Seminar on 05 & 6th Mar 2024 on "Seminar On Subtractive And Additive Manufacturing Techniques" with regard to provides an opportunity to explore two distinct approaches to material fabrication in modern manufacturing processes. Both methods have their own unique advantages and challenges, and understanding these concepts is essential for industries ranging from aerospace to healthcare .This will be a very informative seminar for many students.

Our students really need to understand in detail about Various Subtractive And Additive Manufacturing Techniques

Thanking you Sir

Handwritten signature of HOD-M.E
HOD-M.E
02/03/2024

Yours Sincerely

Handwritten signature of Dr. Harish H
Dr. HARISH H
ASSOCIATE PROFESSOR
ME Dept.

Handwritten signature of Coordinator-IQAC
Coordinator-IQAC
RKCE

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

Handwritten signature of Principal
PRINCIPAL
R K COLLEGE OF ENGINEERING
Kethanakonda (V), Ibrahimpatnam (M),
Vijayawada, AMARAVATI-521 456



R K COLLEGE OF ENGINEERING

(Accredited by NAAC with 'A' Grade)

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

Date:02-03-2024

To

Dr.K. RAMANAIAH

Associate Professor, Department of Mechanical Engineering

VR Siddhartha College Of Engineering

Vijayawada

Email:ramanaiah@vrsiddhartha.ac.in

Phone No: 9885899250

Sir,

Subject: Request invitation for delivering expert lecture Two-day seminar on "Seminar On Subtractive And Additive Manufacturing Techniques" on dates 05-03-2024 & ,06-03-2024– Reg.

Respected Sir,

The department of M.E, RKCE,Kethanakonda (V),Ibrahimpatnam(M), Andhra Pradesh is organizing a two-days seminar on "SEMINAR ON SUBTRACTIVE AND ADDITIVE MANUFACTURING TECHNIQUES" 05-03-2024 & 06-03-2024. 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

Mr. V SRIRAMA MURTHY
HOD/M.E
R K COLLEGE OF ENGINEERING
Kethanakonda (V), Ibrahimpatnam (M),
Vijayawada, AMARAVATI-521 456.

Coordinator-IQAC
RKCE

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



R K COLLEGE OF ENGINEERING

(Accredited by NAAC with 'A' Grade)

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

TWO-DAYSEMINARON

“SEMINAR ON SUBTRACTIVE AND ADDITIVE MANUFACTURING TECHNIQUES”

Organizedby

Department of Mechanical Engineering
RK College of Engineering,Vijayawada

PROGRAMME FLOW – 05-03-2024.

TIME	SPEAKER	TOPIC TO BE DELIVERED
10:00AMto 10:15AM	Mr.M. ANVESH	Welcome speech
10:15AMto 10:30AM	Dr. HARISH H	Introduction about the program
10:30AMto 11:30AM	Dr.K. RAMANAIAH Associate Professor, Department of Mechanical Engineering VR SIDDHARTHA COLLEGE OF ENGINEERING Vijayawada Email:ramanaiah@vrsiddhartha.ac.in PhoneNo: 9885899250	Basic Manufacturing Processes
11:30AMto 11 :45	<i>TEA BREAK</i>	
11:45AMto 01:00 PM	Dr.K. RAMANAIAH Associate Professor, Department of Mechanical Engineering VR SIDDHARTHA COLLEGE OF ENGINEERING Vijayawada Email:ramanaiah@vrsiddhartha.ac.in Phone No: 9885899250	Overview of Manufacturing
01:00 PMto 02:00 PM	<i>LUNCHBREAK</i>	
02:00 PMto 03:30 PM	Dr.K. RAMANAIAH Associate Professor, Department of Mechanical Engineering VR SIDDHARTHA COLLEGE OF ENGINEERING Vijayawada Email:ramanaiah@vrsiddhartha.ac.in Phone No: 9885899250	Subtractive & Additive Manufacturing Importance in Modern Industries

Coordinator: Dr. HARISH H

Coordinator-IQAC
RKCE

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

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



R K COLLEGE OF ENGINEERING

(Accredited by NAAC with 'A' Grade)

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

TWO-DAYSEMINARON

"SEMINAR ON SUBTRACTIVE AND ADDITIVE MANUFACTURING TECHNIQUES"

Organized by

Department of Mechanical Engineering
R K College of Engineering, Vijayawada

PROGRAMME FLOW – 06-03-2024

TIME	SPEAKER	TOPIC TO BE DELIVERED
10:30AM to 11:30AM	Dr.K. RAMANAIAH Associate Professor, Department of Mechanical Engineering VR Siddhartha COLLEGE OF ENGINEERING Vijayawada Email:ramanaiah@vrsiddhartha.ac.in Phone No: 9885899250	Subtractive Manufacturing&Common Subtractive Techniques
11:30AM to 11 : 45 AM	<i>TEA BREAK</i>	
11:45AM to 01:00 PM	Dr.K. RAMANAIAH Associate Professor, Department of Mechanical Engineering VR Siddhartha College Of Engineering Vijayawada Email:ramanaiah@vrsiddhartha.ac.in Phone No: 9885899250	Additive Manufacturing Techniques
01:00 PM to 02:00 PM	<i>LUNCH BREAK</i>	
02:00 PM to 03:30 PM	Dr.K. RAMANAIAH Associate Professor, Department of Mechanical Engineering VR Siddhartha College Of Engineering Vijayawada Email:ramanaiah@vrsiddhartha.ac.in Phone No: 9885899250	Advantages and Challenges in Subtractive & Additive Manufacturing
03:30 PM to 04:00 PM	<i>Feedback from the participants and vote of thanks by Dr.HARISH H</i>	

Coordinators : Dr. HARISH H

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

Coordinator-IQAC
RKCE

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



R K COLLEGE OF ENGINEERING

(Accredited by NAAC with 'A' Grade)

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

Date:06-03-2024

REPORT ON TWO DAY SEMINAR ON "SEMINAR ON SUBTRACTIVE AND ADDITIVE MANUFACTURING TECHNIQUES"

Title: "Seminar On Subtractive And Additive Manufacturing Techniques"

Expert: Dr.K. RAMANAIAH
Associate Professor, Department of Mechanical Engineering
VR Siddhartha College Of Engineering
Vijayawada
Email: ramanaiah@vrsiddhartha.ac.in
Phone No: 9885899250 Date: 05 & 06th March,2024

Venue: Room Number 17, Department of Mechanical Engineering, RKCE.

Coordinators: Dr.HARISH H
Mr.M. ANVESH


Organized by: Mechanical Engineering

Total Participants attended: 107

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

Students of II,III and IV Year 1stsemester have attended the seminar on "Seminar On Subtractive & Additive Manufacturing Techniques" with full enthusiasm. Dr.K. RAMANAIAH has elaborately explained about the Manufacturing Techniques. Also, he explained about the various Techniques in Manufacturing. This seminar was very useful as well as educative for the participants.


Coordinators


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


Coordinator-IQAC
RKCE


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



R K COLLEGE OF ENGINEERING

(Accredited by NAAC with 'A' Grade)

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

Student Attendance for Seminar on "SEMINAR ON SUBTRACTIVE & ADDITIVE MANUFACTURING TECHNIQUES"

SL. NO.	ROLL NUMBER	STUDENT NAME	ATTENDANCE	
			DAY-1	DAY-2
1	21MC1A0301	GURRAPP GARU GANDHI	P	P
2	21MC1A0302	NAGARAKANTI BALAJI	P	P
3	21MC1A0303	POLUBOINA RAMESH	P	P
4	21MC1A0304	PUPPALA PURNA NAGA SIVA KARTHIK	P	P
5	22MC5A0301	ADDEPALLI KALYAN	P	P
6	22MC5A0303	BEZAWADA SRINIVAS	P	P
7	22MC5A0305	DARLA VENNELA VARSHA	P	P
8	22MC5A0306	DRONADULA MANIKANTA KALYAN	P	P
9	22MC5A0307	GUJJULA PRAVEEN	P	P
10	22MC5A0308	JAMPANA SRI HARI VARMA	P	P
11	22MC5A0310	KANUMURI GIRIDHAR GOPAL	P	P
12	22MC5A0313	MADIREDDY HARISH	P	P
13	22MC5A0314	PAMIDIMUKKALA CHARAN RAVI KISHOR	P	A
14	22MC5A0315	PARNA ANIL SIVA SAI KISHORE	P	P
15	22MC5A0316	PATHAN BAJI BABA	P	P
16	22MC5A0317	PENUMUDI SHANMUKHA NAVEEN	P	P
17	22MC5A0318	PERAVALI SUMANTH KUMAR	P	P
18	22MC5A0319	RAGAM SRINIVAS	P	P
19	22MC5A0320	RAMALA ADONI RAMJEDSON	P	P
20	22MC5A0321	RAYI HARI SAI RAM	P	P
21	22MC5A0322	SAMANASI SATISH KUMAR	P	P
22	22MC5A0323	SHAIK ABDULSAIDA	P	P
23	22MC5A0324	SHAIK BASHA	P	P
24	22MC5A0325	SOMARAJU UMA KRISHNA	P	P
25	22MC5A0326	TIKATI GANGADHAR RAO	P	P
26	22MC5A0327	VANKAYALAPATI HARSHAVARDHAN	P	P
27	22MC5A0330	YADARI RADHA GOVIND	P	P
28	22MC5A0331	YADLA CHAKRADHAR	P	P
29	22MC5A0333	BOKINALA JASWANTH	P	P
30	22MC5A0334	MYLABATHUKA YANI REACHEL	P	P
31	20MC1A0301	BUDDAPPAGARI SREENIVAS	P	P
32	20MC1A0302	DERANGULA GANESH KUMAR	P	P
33	20MC1A0303	KUNIBANDA NARESH	P	P
34	20MC1A0304	M SUNIL KUMAR	P	P
35	20MC1A0305	NEELAM VENKATESWARLU	P	P
36	20MC1A0306	PEESA LAKSHMANA RAO	P	P

Coordinator-IQAC
RKCE

Dr. H. K. H.

HOD ME
R K COLLEGE OF ENGINEERING
Kethanakonda (V), Ibrahimpattam (M),
Vijayawada, AMARAVATI-521456

PRINCIPAL
R K COLLEGE OF ENGINEERING
Kethanakonda (V), Ibrahimpattam (M),
Vijayawada, AMARAVATI-521456



R K COLLEGE OF ENGINEERING

(Accredited by NAAC with 'A' Grade)

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

37	20MC1A0308	TIRUVEEDHULA AKHIL SAI	P	P
38	21MC5A0301	AARIMALLA MANI KUMAR	P	P
39	21MC5A0302	ABDUL IMRAN	P	P
40	21MC5A0303	ADIVISHNU NAGA VENKATA SAI KRISHNA	P	P
41	21MC5A0304	ATHUKURI RAJESH KUMAR	A	P
42	21MC5A0305	CHUNDURI AJAY	P	P
43	21MC5A0307	GAMPALA GANGADHAR	A	P
44	21MC5A0308	GANDIKOTA RAJKUMAR	P	P
45	21MC5A0309	GAVIRISETTI ABHISHEK	A	P
46	21MC5A0310	KAKUMANI ABHIRAM	P	P
47	21MC5A0311	YERUVA VENKATAPAVANKUMARREDDY	A	P
48	21MC5A0312	KATEPOGU DAMODAR	P	A
49	21MC5A0313	KATTA NAGA KOTI	A	P
50	21MC5A0314	KOMARAVALLI CHANDU	P	P
51	21MC5A0315	KUNA SAI VAMSI	P	P
52	21MC5A0316	KURAGANTI JOSHI	P	P
53	21MC5A0318	MADANA RAMAKRISHNA	P	P
54	21MC5A0321	MAMIDI MAHESHKUMAR	P	P
55	21MC5A0322	MARIDU RAVI TEJA	P	P
56	21MC5A0323	NAGAM ACHYUTH	P	P
57	21MC5A0325	PATAN SULEMAN KHAN	A	P
58	21MC5A0326	PILLI HEMANTH	P	P
59	21MC5A0327	POTHURI NAGAVENDRA BABU	P	P
60	21MC5A0329	SEELAM NAVEEN	P	P
61	21MC5A0330	SHAIK GOUSE RABBANI	P	P
62	21MC5A0332	SONTI VIJAY KUMAR	P	P
63	21MC5A0333	VEERANKI BHARATH KUMAR	P	P
64	21MC5A0335	VEMPAADA GOVIND	P	P
65	21MC5A0336	YARRA KUSHAL KUMAR	P	P
66	21MC5A0337	TATAKULA NAGA DEEPAK KRISHNA	P	A
67	20MC5A0310	PUSUNURU YUVARAJ	P	P
68	20MC1A0101	BOMMIDI SIVA KUMAR	P	P
69	20MC1A0102	GANDHAM JASWANTH	P	P
70	20MC1A0103	KALIVELA THIMOTHI	P	P
71	20MC1A0104	NAIDU SAMYELU RAJU	P	P
72	20MC1A0105	PRAGADA MOHAN KRISHNA	A	P
73	20MC1A0106	PEGADA MANI KUMAR	P	P
74	20MC1A0107	TIRUMALASETTI VENKATA	P	P
75	21MC5A0103	KAKKIRALA NANGALYA	P	P
76	21MC5A0105	MACHAKANTI RAVI KUMAR	P	P
77	21MC5A0106	PAMMI VAHITHA	P	P

Coordinator-IQAC
RKCE

Dr. Anish

HOD ME
R K COLLEGE OF ENGINEERING
Kethanakonda (V), Ibrahimpattam (M),
Vijayawada, AMARAVATI-521456.

PRINCIPAL
R K COLLEGE OF ENGINEERING
Kethanakonda (V), Ibrahimpattam (M),
Vijayawada, AMARAVATI-521456



R K COLLEGE OF ENGINEERING

(Accredited by NAAC with 'A' Grade)

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

78	21MC5A0107	PANGULURI V SATYANARAYANA SARMA	P	P
79	20MC1A0201	CHITIKI PRATHAP REDDY	P	P
80	21MC5A0201	AREPALLI LAKSHMI NEERAJA	P	P
81	21MC5A0202	BADISA KALYANI	P	P
82	21MC5A0203	BARMAVATHU VIJAY GANESH NAYAK	P	P
83	21MC5A0204	BELLAPU GEETH PAVAN	P	P
84	21MC5A0205	CHINNAM RAMA DURGA	P	P
85	21MC5A0206	DARAVATH DEVLA NAIK	P	P
86	21MC5A0207	GADDAM SAI GOPI CHAND	A	P
87	21MC5A0208	GUDALA SRINIVAS GANGADHAR	P	P
88	21MC5A0209	ISKANDARAJA JAYASURYA	P	P
89	21MC5A0210	JANGALA NARASIMHA RAO	P	P
90	21MC5A0211	JIDUGU KRISHNA SAI	P	P
91	21MC5A0212	KAPPETA SAI KUMARI	P	P
92	21MC5A0213	KODUDULA NAGA BABU	P	P
93	21MC5A0214	MAGANTI VAMSI KRISHNA	A	P
94	21MC5A0215	MANGADODDI ABHISHEK KUMAR	P	P
95	21MC5A0216	MARTHULA AKHILA	P	P
96	21MC5A0217	NELIMARLA MOHAN KRISHNA	A	P
97	21MC5A0218	PANCHAKARLA NAGA BABU	P	P
98	21MC5A0219	SIDDEPALLI NAGA ALEKHYA	A	P
99	21MC5A0220	THUPAKULA DURGA MALLESH	P	P
100	21MC5A0221	TONDEPU TARUN KUMAR	A	P
101	21MC5A0222	TUMMALA AJAY	P	P
102	21MC5A0223	TUMMULURU GANGA RAJU	A	P
103	21MC5A0224	DAYE SRIJA JANAMALA	P	P
104	21A45A0204	RACHAKONDA SIVA NAGA	A	P
105	21A45A0208	VALLABHAPURAPU GOPI CH	P	P
106	21KR5A0203	DONDLA BALU	P	P
107	21KR5A0209	PUTTUPU HARSHA VARDHAN	P	P

[Signature]
Coordinators

[Signature]
HOD-ME
R K COLLEGE OF ENGINEERING
Kethanakonda (V), Ibrahimpatnam (M),
Vijayawada, AMARAVATI-521 456

[Signature]
Principal
PRINCIPAL
R K COLLEGE OF ENGINEERING
Kethanakonda (V), Ibrahimpatnam (M),
Vijayawada, AMARAVATI-521 456

[Signature]
Coordinator-IQAC
RKCE

[Signature]
PRINCIPAL
R K COLLEGE OF ENGINEERING
Kethanakonda (V), Ibrahimpatnam (M),
Vijayawada, AMARAVATI-521 456



R K COLLEGE OF ENGINEERING

(Accredited by NAAC with 'A' Grade)

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

Resource Person Profile



Presently working as Associate Professor of Mechanical Engineering Department in VR Siddhartha college of Engineering from APRIL 2011 (Responsibilities: Teaching UG and PG Students of Mechanical Engineering and performing the works assigned Principal). Having 26years of Teaching and 3years of Industrial experience in Mechanical Engineering.

Subtractive & Additive Manufacturing :

The primary objective of this seminar on Fluid Mechanics is to provide participants with a comprehensive understanding of the fundamental principles and concepts governing fluid behavior. The seminar aims to explore key topics such as fluid properties, fluid statics, dynamics, and the governing equations of motion, including the Navier-Stokes equations. Attendees will gain insights into real-world applications of fluid mechanics in engineering, environmental science, and industrial processes

Need of Manufacturing ?

Manufacturing is a vital process in the production of goods and services that fuels economies, advances technology, and improves quality of life. The need for manufacturing stems from its critical role in industrial development, economic growth, and societal needs

[Handwritten Signature]
HOD ME
R K COLLEGE OF ENGINEERING
Kethanakonda (V), Ibrahimpatnam (M),
Vijayawada, AMARAVATI-521 456.

[Handwritten Signature]
Coordinator-IQAC
RKCE

[Handwritten Signature]
PRINCIPAL
R K COLLEGE OF ENGINEERING
Kethanakonda (V), Ibrahimpatnam (M),
Vijayawada, AMARAVATI-521 456

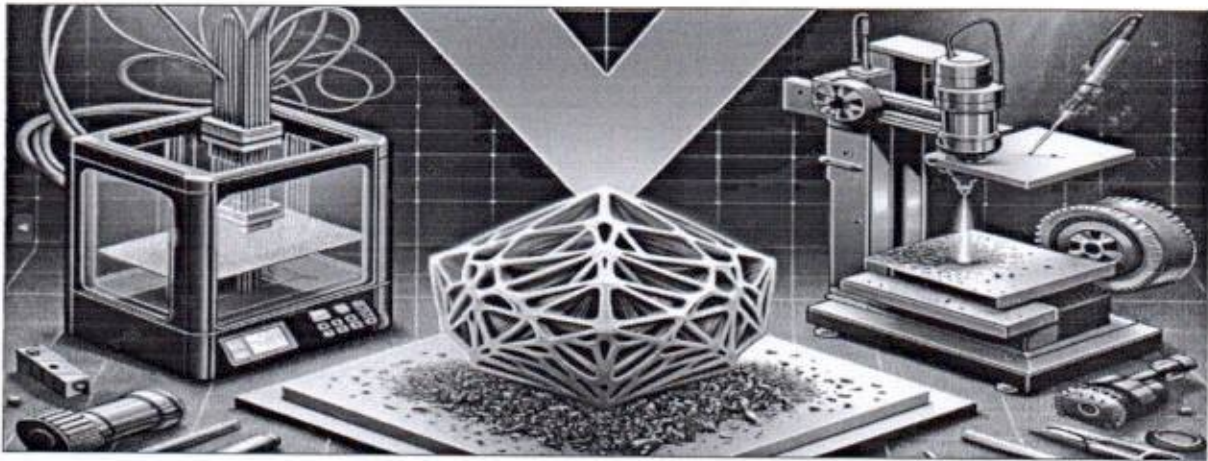


R K COLLEGE OF ENGINEERING

(Accredited by NAAC with 'A' Grade)

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

REPORT ON "SEMINAR ON SUBTRACTIVE AND ADDITIVE MANUFACTURING TECHNIQUES"



Subtractive Manufacturing:

Subtractive manufacturing refers to processes where material is removed from a workpiece (usually a solid block) to achieve the desired shape. Common techniques include milling, turning, drilling, and grinding.


Additive Manufacturing:

Additive manufacturing (AM), commonly known as 3D printing, is a process where material is deposited layer by layer to build a part from a digital model. Unlike subtractive methods, there is no material waste, as only the necessary material is added.

Common Subtractive Techniques:

- **CNC Machining (Computer Numerical Control):** A precise method using computer-controlled tools to cut, mill, or shape materials such as metal, plastic, and wood.
- **Milling:** A process where a rotating cutter removes material from a workpiece.
- **Turning:** A machining process where a workpiece is rotated while a cutting tool is used to remove material.
- **Drilling:** A technique to create holes in materials using a rotating tool.


Coordinator-IOAC
RKCE


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


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



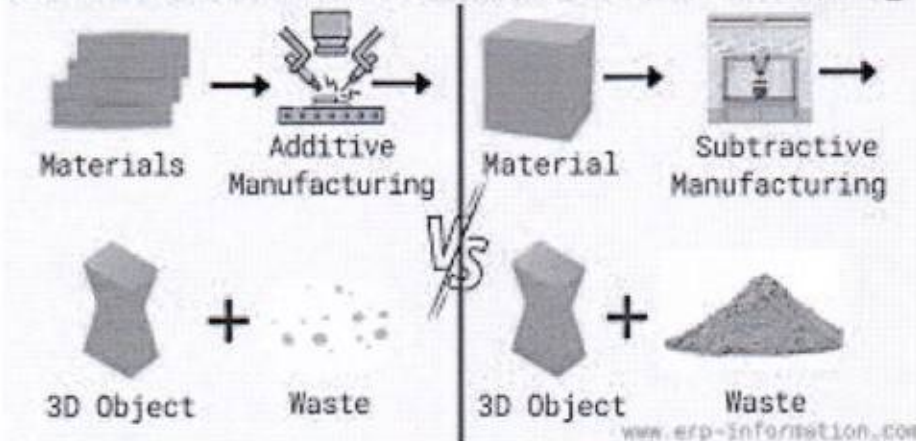
R K COLLEGE OF ENGINEERING

(Accredited by NAAC with 'A' Grade)

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

- Laser Cutting and Waterjet Cutting: High-precision methods used to cut complex shapes.

Process of Additive vs Subtractive Manufacturing



Common Additive Techniques:

- Fused Deposition Modeling (FDM): Extrusion of thermoplastic filaments, commonly used in consumer-level 3D printers.
- Stereolithography (SLA): Uses ultraviolet (UV) light to cure a liquid resin into solid layers.
- Selective Laser Sintering (SLS): Uses a laser to sinter powdered material (e.g., metal or plastic) into a solid part.
- Direct Metal Laser Sintering (DMLS): A specialized form of SLS for metal parts.
- Electron Beam Melting (EBM): Uses an electron beam to melt metal powder, used primarily in aerospace and medical industries.

Challenges of Additive Manufacturing:

- Limited material choices compared to subtractive methods.
- Surface finish and mechanical properties may not match traditional methods (depending on the technology).
- Slower production speeds for large parts.

challenges of Subtractive Manufacturing:

- Material waste due to cutting away excess material.
- Limited design complexity and flexibility (compared to additive methods).
- Time-consuming and energy-intensive for complex parts.

Coordinator-IOAC
RKCE

Dr. Anil K. V.

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

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



R K COLLEGE OF ENGINEERING

(Accredited by NAAC with 'A' Grade)

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



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

Harith
Coordinator-IQAC
RKCE

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



R K COLLEGE OF ENGINEERING

(Accredited by NAAC with 'A' Grade)

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

Comparison Between Subtractive and Additive Manufacturing


- **Precision and Surface Finish:**
 - Subtractive manufacturing often provides higher precision and smoother surface finishes, making it ideal for high-precision parts.
 - Additive manufacturing may require post-processing to achieve the same level of surface quality.
- **Material Waste:**
 - Subtractive manufacturing generates waste as material is removed from the workpiece.
 - Additive manufacturing uses only the material required, minimizing waste.
- **Design Flexibility:**
 - Additive manufacturing allows for more intricate and complex designs that are difficult or impossible to achieve with subtractive methods.
 - Subtractive methods are limited by the shape of the starting material and the tool's ability to reach certain areas.
- **Production Speed:**
 - Additive manufacturing is often quicker for prototyping and small production runs.


Subtractive methods are typically faster for large-volume production, especially for simpler geometries.


Dr. Harish
Coordinators


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


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


Coordinator-IQAC
RKCE


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

Feedback form for Two days Seminar on "Subtractive & Additive Manufacturing Technologies"

* (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	21MC1A0301	yes	yes	5	4	5	4	5	good
2	21MC1A0302	yes	yes	5	4	5	4	5	good
3	21MC1A0303	yes	yes	5	4	5	4	5	Good
4	21MC1A0304	yes	yes	5	4	5	5	4	Good
5	22MC5A0301	yes	yes	5	5	4	5	4	good
6	22MC5A0303	yes	yes	5	4	5	4	5	good
7	22MC5A0305	yes	yes	5	4	5	4	5	good
8	22MC5A0306	yes	yes	5	4	5	4	5	good
9	22MC5A0307	yes	yes	5	5	4	5	4	Good
10	22MC5A0308	yes	yes	5	5	4	5	5	Good
11	22MC5A0310	yes	yes	5	5	5	5	5	excellent
12	22MC5A0313	yes	yes	5	5	5	5	5	Excell
13	22MC5A0314	yes	yes	4	5	4	5	4	Good
14	22MC5A0315	yes	yes	4	5	5	5	4	good

Handwritten signature
Coordinator-IQAC
RKCE

Handwritten signature

HOD ME
RK COLLEGE OF ENGINEERING
 Keihanakonda (V), Ibrahimpatnam (M),
 Vijayawada, AMARAVATI-521 456.
RK COLLEGE OF ENGINEERING
 Keihanakonda (V), Ibrahimpatnam (M),
 Vijayawada, AMARAVATI-521 456.

15	22MC5A0316	yes	yes	5	4	5	4	5	good
16	22MC5A0317	Yes	Yes	4	5	4	4	5	Good
17	22MC5A0318	Yes	Yes	4	5	4	4	5	good
18	22MC5A0319	yes	yes	5	5	4	5	5	good
19	22MC5A0320	Yes	Yes	4	5	4	5	4	Good
20	22MC5A0321	yes	yes	4	4	4	5	4	Good
21	22MC5A0322	yes	yes	5	5	5	5	5	Excellent
22	22MC5A0323	yes	yes	5	4	4	4	4	good
23	22MC5A0324	yes	yes	5	5	4	5	4	Good
24	22MC5A0325	yes	yes	5	5	4	5	4	Good
25	22MC5A0326	yes	yes	5	5	4	5	5	good
26	22MC5A0327	Yes	Yes	5	4	5	4	4	Good
27	22MC5A0330	Yes	Yes	5	4	4	4	4	Good
28	22MC5A0331	yes	yes	5	4	5	4	4	good
29	22MC5A0333	yes	yes	5	4	5	5	5	Good
30	22MC5A0334	si	fe	5	4	4	5	5	Good
31	20MC1A0301	yes	yes	5	5	4	5	5	good
32	20MC1A0302	Yes	Yes	5	5	4	4	4	Good

Handwritten signature

Coordinator-IQAC
RKCE

Handwritten signature

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

33	20MC1A0303	yes	yes	5	4	5	4	5	good
34	20MC1A0304	Yes	Yes	5	4	5	4	5	Good
35	20MC1A0305	yes	yes	5	4	5	4	4	good
36	20MC1A0306	yes	yes	5	5	5	5	5	Excellent
37	20MC1A0308	Yes	Yes	5	5	4	5	4	Good
38	21MC5A0301	yes	yes	5	4	5	4	5	good
39	21MC5A0302	Yes	Yes	4	5	4	5	5	good
40	21MC5A0303	Yes	Yes	4	5	4	4	5	good
41	21MC5A0304	yes	yes	5	4	5	4	5	good
42	21MC5A0305	Yes	Yes	5	5	4	5	5	Good
43	21MC5A0307	Yes	Yes	5	5	4	4	4	good
44	21MC5A0308	yes	yes	4	5	4	5	5	good
45	21MC5A0309	Yes	Yes	5	5	5	5	5	Excellent
46	21MC5A0310	Yes	Yes	4	4	4	4	4	good
47	21MC5A0311	yes	yes	5	5	5	5	5	Excellent
48	21MC5A0312	Yes	Yes	5	4	5	4	4	Good
49	21MC5A0313	Yes	Yes	5	4	5	4	5	good
50	21MC5A0314	yes	yes	5	4	5	4	5	good

Handwritten initials

Dr. Harish

HOD ME
RK COLLEGE OF ENGINEERING
Kethanakonda (V), Ibrahimpattam (M),
Vijayawada, AMARAVATI-521 456.

PRINCIPAL
RK COLLEGE OF ENGINEERING
Kethanakonda (V), Ibrahimpattam (M),
Vijayawada, AMARAVATI-521 456.

Coordinator-IQAC
RKCE

51	21MC5A0315	yes	yes	5	5	5	5	5	Excellent
52	21MC5A0316	yes	yes	5	5	5	5	5	Excellent
53	21MC5A0318	yes	yes	5	4	4	5	5	V-Good
54	21MC5A0321	yes	yes	4	4	5	4	4	Good
55	21MC5A0322	yes	yes	5	4	4	5	5	V-Good
56	21MC5A0323	yes	yes	4	4	5	5	5	Good
57	21MC5A0325	yes	yes	5	5	5	5	5	Excellent
58	21MC5A0326	yes	yes	5	5	5	5	5	Excellent
59	21MC5A0327	yes	yes	5	4	4	4	5	Good
60	21MC5A0329	yes	yes	4	4	4	5	5	Good
61	21MC5A0330	yes	yes	5	5	5	5	5	Excellent
62	21MC5A0332	yes	yes	4	5	5	4	5	V-Good
63	21MC5A0333	yes	yes	5	5	4	5	5	Good
64	21MC5A0335	yes	yes	5	4	4	4	5	Good
65	21MC5A0336	yes	yes	4	4	5	5	5	V-Good
66	21MC5A0337	yes	yes	5	5	5	5	5	Excellent
67	20MC5A0310	yes	yes	5	5	4	5	5	V-Good
68	20MC1A0101	yes	yes	5	4	4	4	4	Good

Coordinator-IQAC
RKCE

Dr. Hemish

HOD ME
RK COLLEGE OF ENGINEERING
Kethanakonda (V), Ibrahimpatnam (M),
Vijayawada, AMARAVATI-521 456.
PRINCIPAL
RK COLLEGE OF ENGINEERING
Kethanakonda (V), Ibrahimpatnam (M),
Vijayawada, AMARAVATI-521 456.

69	20MC1A0102	yes	yes.	5	5	4	5	5	v-Good
70	20MC1A0103	yes	yes	5	4	4	5	4	v-Good
71	20MC1A0104	yes	yes	5	5	5	5	5	Excellent
72	20MC1A0105	yes	yes	5	4	4	4	5	Good.
73	20MC1A0106	yes	yes	5	5	5	5	5	Excellent
74	20MC1A0107	yes	yes	5	4	4	4	5	Good
75	21MC5A0103	yes	yes	5	5	5	5	5	Excellent
76	21MC5A0105	yes	yes	5	4	5	5	4	v-Good.
77	21MC5A0106	yes	yes	5	5	4	5	5	v-Good
78	21MC5A0107	yes	yes	5	4	4	4	5	Good
79	20MC1A0201	yes	yes	5	4	4	5	4	v-Good
80	21MC5A0201	yes	yes	5	5	5	5	5	Excellent
81	21MC5A0202	yes	yes	5	5	5	5	5	Excellent
82	21MC5A0203	yes	yes	5	5	5	5	4	v-Good
83	21MC5A0204	yes	yes	5	5	4	5	5	Good
84	21MC5A0205	yes	yes	5	4	4	5	4	v-Good
85	21MC5A0206	yes	yes	5	4	4	5	5	v-Good
86	21MC5A0207	yes	yes	5	4	4	5	5	Excellent

Coordinator-IQAC
RKCE

Dr. *[Signature]*

HOD ME
RK COLLEGE OF ENGINEERING
Kethanakonda (V), Ibrahimpatnam (M),
Vijayawada, AMARAVATI-521 456.
PRINCIPAL
RK COLLEGE OF ENGINEERING
Kethanakonda (V), Ibrahimpatnam (M),
Vijayawada, AMARAVATI-521 456.

87	21MC5A0208	Yes	Yes	4	5	5	4	4	Good
88	21MC5A0209	Yes	Yes	5	4	4	5	5	Good
89	21MC5A0210	Yes	Yes	4	4	4	5	4	Good
90	21MC5A0211	Yes	Yes	5	4	5	5	5	V.Good
91	21MC5A0212	Yes	Yes	5	5	5	5	5	Excellent
92	21MC5A0213	Yes	Yes	5	4	5	5	5	V.Good
93	21MC5A0214	Yes	Yes	4	5	5	5	5	V.Good
94	21MC5A0215	Yes	Yes	5	5	4	5	5	V.Good
95	21MC5A0216	Yes	Yes	5	5	5	5	5	Excellent
96	21MC5A0217	Yes	Yes	5	5	4	4	5	V.Good
97	21MC5A0218	Yes	Yes	5	5	5	4	5	V.Good
98	21MC5A0219	Yes	Yes	5	4	5	4	5	V.Good
99	21MC5A0220	Yes	Yes	5	5	5	5	5	Excellent
100	21MC5A0221	Yes	Yes	4	4	4	5	5	Good
101	21MC5A0222	Yes	Yes	5	4	5	4	5	Good
102	21MC5A0223	Yes	Yes	5	4	4	5	4	Good
103	21MC5A0224	Yes	Yes	5	5	5	5	5	Excellent
104	21A45A0204	Yes	Yes				5	4	Good

Head

Dr. Haxil

HOD ME
 RK COLLEGE OF ENGINEERING
 Kethanakonda (V), Ibrahimpatnam (M),
 Vijayawada, AMARAVATI-521 456.

PRINCIPAL
 RK COLLEGE OF ENGINEERING
 Kethanakonda (V), Ibrahimpatnam (M),
 Vijayawada, AMARAVATI-521 456

Coordinator-IQAC
 RKCE

105	21A45A0208	Yes	Yes	5	5	5	5	5	Excellent
106	21KR5A0203	Yes	Yes	5	4	4	5	4	v.Good.
107	21KR5A0209	Yes	Yes	5	4	5	4	4	Good

Dr. Harish
COORDINATOR

[Signature]
HOD ME
HOD
R K COLLEGE OF ENGINEERING
Kethanakonda (V), Ibrahimpatnam (M),
Vijayawada, AMARAVATI-521 456.

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

Harish
Coordinator-IQAC
RKCE

[Signature]
PRINCIPAL
R K COLLEGE OF ENGINEERING
Kethanakonda (V), Ibrahimpatnam (M),
Vijayawada, AMARAVATI-521 456



RK COLLEGE OF ENGINEERING

(APPROVED BY AICTE, NEW DELHI & AFFILIATED TO JNTUK, KAKINADA)

An ISO 9001 : 2015 Certified Institution

Kethanakonda(V), Ibrahimpatnam(M), Vijayawada, Amaravati, AP - 521456

Phone No: 08659 - 282956 / 66

Website: www.rkce.in



Certificate



This is to certify that Mr./ Ms. RACHAKONDA SINA NAGA.

has Successfully completed a Course / Workshop / Seminar on “ SUBTRACTIVE &

ADDITIVE MANUFACTURING ” from 05-03-2024 to 06-03-2024

in association with SRC e-SOLUTIONS at RK College of Engineering.


CO-ORDINATOR


HOD ME
R K COLLEGE OF ENGINEERING
Kethanakonda (V), Ibrahimpatnam (M).


PRINCIPAL

Coordinator-IQAC
RKCE

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



RK COLLEGE OF ENGINEERING

(APPROVED BY AICTE, NEW DELHI & AFFILIATED TO JNTUK, KAKINADA)

An ISO 9001 : 2015 Certified Institution

Kethanakonda(V), Ibrahimpatnam(M), Vijayawada, Amaravati, AP - 521456

Phone No: 08659 - 282956 / 66

Website: www.rkce.in



Certificate



This is to certify that Mr./Ms. PEESA LAKSHMANA RAO

has Successfully completed a Course / Workshop / Seminar on “ SUBTRACTIVE &

ADDITIVE MANUFACTURING ” from 05-03-2024 to 06-03-2024

in association with SRC e-SOLUTIONS at RK College of Engineering.


CO-ORDINATOR


HOD ME
R K COLLEGE OF ENGINEERING
Kethanakonda (V), Ibrahimpatnam (M),


PRINCIPAL

Coordinator-IQAC
RKCE

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