

RAJIV GANDHI COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE and Affiliated to Pondicherry University)

(Accredited with 'A' Grade by NAAC)

(Sponsored by Sri Balaji Educational and Charitable Public Trust)

Pondy - Cuddalore Main Road, Kirumampakkam, Puducherry - 607 403.

11-10-2019

Puducherry

From

K.Rajeshkumar,
Assistant Professor,
Department of MECH,
Rajiv Gandhi College of Engineering and Technology,
Kirumampakkam,
Puducherry – 607 403

To

The Principal,
Rajiv Gandhi College of Engineering and Technology,
Kirumampakkam,
Puducherry – 607 403

Through:

The Head of the Department, Department of Mechanical Engineering

Respected Sir,

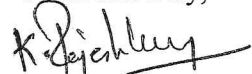
Sub: - Request for permission to conduct a one-day seminar on "Intellectual property Challenges in Additive Manufacturing" for Final year students-Reg.

We have planned to conduct a one-day seminar on the topic "Intellectual property Challenges in Additive Manufacturing" on 21/10/2019. I will be incharge of the seminar. The above mentioned seminar will be offered to the Final Year students of the MECH Department.

I kindly request you to grant permission to conduct this program. Enclosed are the details of the seminar for your perusal and approval.

Thanking you,


Yours sincerely,


K. Rajeshkumar

Event Coordinator

Forwarded To Principal




DR. P. VIJAYAKRISHNA RAPAKA
B.Ech. (Mech.), M.Tech.(Energy), Ph.D. (IIT Madras)
M.I.S.T.E., F.I.I.P.E., M.C.S.I M.C.I.I.,
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DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2019 – 20


No: RGCET/MECH/Circular/2019-20/IPR 01

Date: 14.10.2019

CIRCULAR


I am excited to inform you that a IPR Seminar on the topic "Intellectual property Challenges in Additive Manufacturing" is going to be conducted on 21/10/2019. The aforementioned IPR seminar will be offered to the IV Year students of the MECH Department.

All are invited


HOD / MECH

Copy to:

1. The Principal
2. Circulate to all Faculty Members and MECH students
3. Notice board / file


E. VIJAYAKRISHNA RAPAKA
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M.I.S.T.E., F.I.I.P.E., M.C.S.I.M.C.I.I.,
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Approved by AICTE and Affiliated to Pondicherry University
Email: info@rgcetpdy.ac.in

DEPARTMENT OF MECHANICAL ENGINEERING

Organizes

ONE DAY SEMINAR ON INTELLECTUAL PROPERTY CHALLENGES IN ADDITIVE MANUFACTURING

on 21-10-2019 at 9.00 am
in A.P.J ABDULKALAM BLOCK, RGCET

in the presence of

**DR.E.VIJAYAKRISHNA RAPAKA
PRINCIPAL**

**DR.K.AYYAPPAN
VICE-PRINCIPAL**

**MR.S.NARAYANAN
HOD /MECH**

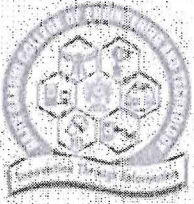
RESOURCE PERSON

**DR. D. LENIN SINGARAVELU
ASSOCIATE PROFESSOR
DEPT OF PRODUCTION ENGINEERING
NIT, TRICHY**



Dr. E. VIJAYAKRISHNA RAPAKA
B.Tech. (Mech.), M.Tech.(Energy), Ph.D. (IIT Madras)
M.I.S.T.E., F.I.I.P.E., M.C.S.I.M.C.I.I.,
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DEPARTMENT OF MECHANICAL ENGINEERING PROGRAM SCHEDULE

Course Name	Intellectual property Challenges in Additive Manufacturing		
Course Code	MECH2019IPR01		
Resource Person	Dr.D.Lenin Singaravelu, Associate Professor Department of Production Engineering, NIT, Trichy.		
Date	21.10.2019		
Seminar Offered to	Dept.:MECH	Year:IV	Sem:VII

Course Title: Intellectual property Challenges in Additive Manufacturing

Timing: 9:00 am to 4:00 pm

Venue: APJ Abdul Kalam Block.

Module: Additive manufacturing (AM) presents several intellectual property (IP) challenges, including complex patent landscapes, protection of digital designs, and cross-border IP issues. Patents in AM can create "patent thickets" and complicate new technology development, while the ease of copying digital files raises concerns about design theft and copyright enforcement. Protecting proprietary processes as trade secrets is challenging due to reverse engineering, and international operations introduce complications in enforcing IP rights across different jurisdictions. Navigating these challenges requires a comprehensive IP strategy, clear agreements with partners, enhanced security measures, and specialized legal advice to adapt to the evolving legal and regulatory environment of AM.

9:00 AM – 10:00 AM: Registration and Welcome Coffee

Attendee registration

10:00 AM – 11:00 AM:

Session 1 – Introduction to IP Challenges in Additive Manufacturing

Overview of additive manufacturing technology


Key IP issues in the context of 3D printing and digital design

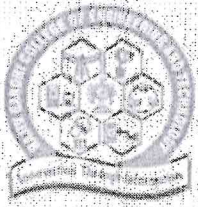
Intellectual property types: patents, copyrights, trademarks, and trade secrets

11:00 AM – 11:15 AM: Morning Break

11:15 AM – 12:30 PM:

Session 2 – Case Studies and Interactive Exercises


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11:15 AM – 12:00 PM: Presentation and discussion of real-world case studies

Examination of notable IP disputes and challenges in additive manufacturing

12:00 PM – 12:30 PM: Interactive group exercise

Analyzing a hypothetical IP issue or case study in small groups

12:30 PM – 1:30 PM: Lunch Break

1:30 PM – 2:45 PM:

Session 3 – Legal Frameworks and Best Practices

1:30 PM – 2:00 PM: Overview of legal and regulatory frameworks

Current IP laws and regulations affecting additive manufacturing

Discussion on potential reforms

2:00 PM – 2:45 PM: Best practices for IP management

Strategies for protecting and managing IP in additive manufacturing

2:45 PM – 3:00 PM: Afternoon Break

3:00 PM – 4:00 PM:

Session 4 – Practical Solutions and Collaboration


3:00 PM – 3:30 PM: Developing practical solutions

Collaborative activity to create actionable strategies for IP management

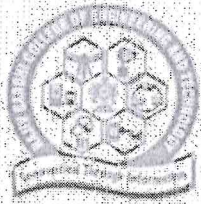
3:30 PM – 4:00 PM: Discussion

Open floor for questions and discussion


Event Coordinator


Dr. E. VIJAYAKRISHNA RAPAKA
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Head of the Department



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DEPARTMENT OF MECHANICAL ENGINEERING REPORT

Seminar Title: Intellectual property Challenges in Additive Manufacturing

Seminar Date: 21.10.2019

Timing: 9:00 am to 4:00 pm

Venue: APJ Abdul Kalam Block.

The Department of Mechanical Engineering (MECH) at Rajiv Gandhi College of Engineering and Technology organized a workshop on "Intellectual property Challenges in Additive Manufacturing" exclusively for final-year graduates. This technology, often referred to as 3D printing, enables rapid prototyping and bespoke manufacturing but also introduces new complexities in protecting and managing IP.

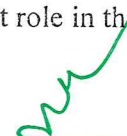
The workshop commenced with an opening address by Mr. N. Narayanan, Head of the Mechanical Department. Dr. E. Vijayakrishna Rapaka, Principal emphasized the significance of Intellectual property Challenges in Additive Manufacturing. The keynote address was delivered by Dr.D. Lenin Singaravelu, Associate Professor of Production Engineering, NIT, Trichy and discussed the Intellectual property Challenges in Additive Manufacturing.


The workshop provided an in-depth exploration of the intellectual property (IP) challenges associated with additive manufacturing, also known as 3D printing. Held from 9:00 AM to 4:00 PM, the workshop combined presentations, interactive exercises, and collaborative sessions to equip participants with practical knowledge and strategies for managing IP issues in this rapidly evolving field. To address participants' questions, clarify any uncertainties, and facilitate discussion on key topics covered during the workshop.

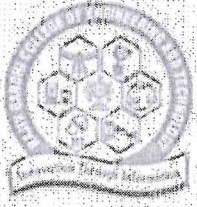
As we end up workshop on "Intellectual Property Challenges in Additive Manufacturing," I want to extend a heartfelt thank you to each of you for your active participation and valuable contributions. Your engagement and insights have made this workshop a dynamic and enriching experience.

Intellectual property management in additive manufacturing is a continually evolving field, and staying informed is crucial. We hope this workshop has provided you with the tools and insights needed to navigate these challenges effectively. Your proactive approach to understanding and addressing IP issues will play a significant role in the success of your innovations.


Event Coordinator


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DEPARTMENT OF MECHANICAL ENGINEERING

A ONE-DAY SEMINAR ON "INTELLECTUAL PROPERTY CHALLENGES IN ADDITIVE MANUFACTURING"

ENROLLED STUDENTS LIST

Sl. No.	Reg. No	Name of the Student	Year/Sem	Course
1	16TB0401	ABDULAATIF A K	IV/VII	B-Tech MECH
2	16TB0402	ABDUL KADHAR A	IV/VII	B-Tech MECH
3	16TB0403	ADHI VISHNU T	IV/VII	B-Tech MECH
4	16TB0404	AJIL SAJI	IV/VII	B-Tech MECH
5	16TB0405	AJITHKUMAR M	IV/VII	B-Tech MECH
6	16TB0406	AMAL GOPAL P P	IV/VII	B-Tech MECH
7	16TB0407	ANANDH K	IV/VII	B-Tech MECH
8	16TB0408	ARAVINDH A	IV/VII	B-Tech MECH
9	16TB0409	ARAVINDHAN B	IV/VII	B-Tech MECH
10	16TB0410	ARAVINDHAN K	IV/VII	B-Tech MECH
11	16TB0411	ARIVALAN K	IV/VII	B-Tech MECH
12	16TB0412	ARUN P V	IV/VII	B-Tech MECH
13	16TB0413	BALAKUMARAN G	IV/VII	B-Tech MECH
14	16TB0414	BARATH KUMAR S	IV/VII	B-Tech MECH
15	16TB0415	ESWAR S	IV/VII	B-Tech MECH
16	16TB0416	EZHILVATHANAN E	IV/VII	B-Tech MECH
17	16TB0417	GAUTAM N	IV/VII	B-Tech MECH
18	16TB0418	GOKULA KRISHNAN D	IV/VII	B-Tech MECH
19	16TB0419	GOPISHANKAR B	IV/VII	B-Tech MECH
20	16TB0420	GURURAJ G	IV/VII	B-Tech MECH
21	16TB0421	HARIKRISHNAN E	IV/VII	B-Tech MECH
22	16TB0422	HARISH KUMAR S	IV/VII	B-Tech MECH
23	16TB0423	HARISH LINGUESVARANE	IV/VII	B-Tech MECH
24	16TB0424	HARISH M	IV/VII	B-Tech MECH
25	16TB0426	JAGADESH A	IV/VII	B-Tech MECH
26	16TB0427	JEEVANANDAN T	IV/VII	B-Tech MECH
27	16TB0429	JEYAPRAKASH J	IV/VII	B-Tech MECH

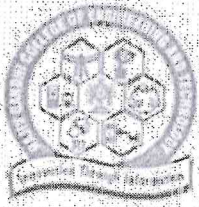
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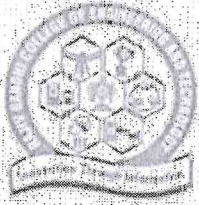
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28	16TB0430	KABILAN P	IV/VII	B-Tech MECH
29	16TB0431	KAREEMUDDEEN G	IV/VII	B-Tech MECH
30	16TB0432	KAZHALVANNAN P	IV/VII	B-Tech MECH
31	16TB0434	KOTTI VIGNESH G	IV/VII	B-Tech MECH
32	16TB0435	MAHARAJAN S	IV/VII	B-Tech MECH
33	16TB0436	MANI BHARATHI C	IV/VII	B-Tech MECH
34	16TB0437	MANIKANDAN S	IV/VII	B-Tech MECH
35	16TB0439	MOHAMED AZHARUDEEN A K	IV/VII	B-Tech MECH
36	16TB0440	MOHAMED AZAR M	IV/VII	B-Tech MECH
37	16TB0442	MOHAMMED ADIL	IV/VII	B-Tech MECH
38	16TB0443	MUGESHKUMAR S	IV/VII	B-Tech MECH
39	16TB0445	MURALIDHARAN M	IV/VII	B-Tech MECH
40	16TB0446	MUTHUKUMARAN S	IV/VII	B-Tech MECH
41	16TB0447	NARAYANAN V	IV/VII	B-Tech MECH
42	16TB0448	NARESHKUMAR V	IV/VII	B-Tech MECH
43	16TB0449	NAVANEETHAKRISHNAN B	IV/VII	B-Tech MECH
44	16TB0450	NEERAJ JAYARAM	IV/VII	B-Tech MECH
45	16TB0451	NETHAJI R	IV/VII	B-Tech MECH
46	16TB0452	NIVESH BHARATH S	IV/VII	B-Tech MECH
47	16TB0453	PRABAKARAN S	IV/VII	B-Tech MECH
48	16TB0454	PRADHABAN G	IV/VII	B-Tech MECH
49	16TB0455	PRAVEEN R	IV/VII	B-Tech MECH
50	16TB0456	PRAVEEN RAJ S	IV/VII	B-Tech MECH
51	16TB0458	PREETHIYUVANAN K	IV/VII	B-Tech MECH
52	16TB0459	PUNNIYAKODI M	IV/VII	B-Tech MECH
53	16TB0460	RAGUL P	IV/VII	B-Tech MECH
54	16TB0461	RAJAKUMARAN M	IV/VII	B-Tech MECH
55	16TB0462	RAKESHKUMAR D	IV/VII	B-Tech MECH
56	16TB0464	RISHIKESH PARANTH P	IV/VII	B-Tech MECH
57	16TB0466	SAKTHEESWARAN M	IV/VII	B-Tech MECH
58	16TB0467	SAMIPRASANNA P	IV/VII	B-Tech MECH
59	16TB0468	SAMRIDH SURESH	IV/VII	B-Tech MECH
60	16TB0470	SANTHOSHKUMAR V	IV/VII	B-Tech MECH
61	16TB0471	SEBIN JOSEPH	IV/VII	B-Tech MECH
62	16TB0472	SHIKHIL SUDESH KUMAR	IV/VII	B-Tech MECH

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63	16TB0473	SIDHARTH C K	IV/VII	B-Tech MECH
64	16TB0474	SREEKESH S	IV/VII	B-Tech MECH
65	16TB0475	SRI JAYASELVAM S	IV/VII	B-Tech MECH
66	16TB0476	SRINIVAS R	IV/VII	B-Tech MECH
67	16TB0478	SRIVIMALNATH N	IV/VII	B-Tech MECH
68	16TB0479	SUMAN A	IV/VII	B-Tech MECH
69	16TB0481	SURESH KUMAR S	IV/VII	B-Tech MECH
70	16TB0482	SURESHKUMAR E	IV/VII	B-Tech MECH
71	16TB0483	VENGATESHWARAN G	IV/VII	B-Tech MECH
72	16TB0484	VIGNESH S	IV/VII	B-Tech MECH
73	16TB0485	VIGNESH V	IV/VII	B-Tech MECH
74	16TB0489	VISHWA A	IV/VII	B-Tech MECH
75	16TB0490	VISHWESWARAN K	IV/VII	B-Tech MECH
76	16TB0491	YASAR ARAFATH D	IV/VII	B-Tech MECH
77	16TB0492	YUVASUBRAMANIYAN B	IV/VII	B-Tech MECH
78	16TB0493	ZAMEER A	IV/VII	B-Tech MECH
79	16TBL033	DHAMODHARAN V	IV/VII	B-Tech MECH
80	16TBL034	DHARMESH S	IV/VII	B-Tech MECH
81	16TBL035	GUNASEELAN S	IV/VII	B-Tech MECH
82	16TBL036	MURALIDARAN M	IV/VII	B-Tech MECH
83	16TBL037	PRAVIN KUMAR N	IV/VII	B-Tech MECH
84	16TBL038	SEMBARITHI R	IV/VII	B-Tech MECH
85	16TBL039	YOSUVAA J	IV/VII	B-Tech MECH
86	16TE0403	ANANDHA KUMAR S	IV/VII	B-Tech MECH


Event Coordinator


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RAJIV GANDHI COLLEGE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING
INTELLECTUAL PROPERTY CHALLENGES IN ADDITIVE MANUFACTURING
FEEDBACK FORM

Name: _____ Semester/Year: _____

Date: _____ Venue: _____ Reg. No. _____

FEEDBACK QUESTIONS

A. Were objectives of the workshop clear to you? Y / N

B. The contents met with your expectations

1. Strongly disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly agree

C. The lecture sequence was well planned

1. Strongly disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly agree

D. The contents were illustrated with adequate examples

1. Strongly disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly agree

E. The level of the workshop was too high

1. Strongly disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly agree

F. The contents compared with your expectations was too theoretical

1. Strongly disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly agree

G. The workshop exposed you to new knowledge and practices

1. Strongly disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly agree

THE CONDUCT OF THE WORKSHOP

A. The lectures were clear and easy to understand

1. Strongly disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly agree

B. The teaching aids were effectively used

1. Strongly disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly agree

C. The material handed out was adequate

1. Strongly disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly agree

D. The instructors encouraged interaction and were helpful

1. Strongly disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly agree


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Signature of the Student

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DEPARTMENT OF MECHANICAL ENGINEERING
INTELLECTUAL PROPERTY CHALLENGES IN ADDITIVE MANUFACTURING

FEEDBACK FORM

Name: RAGUL P Semester/Year: VII / IV

Date: 21-10-19 Venue: APJ Abdul Kalam Block Reg. No. 16TB0465

FEEDBACK QUESTIONS

A. Were objectives of the workshop clear to you? Y / N

B. The contents met with your expectations

1. Strongly disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly agree

C. The lecture sequence was well planned

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Signature of the Student

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DEPARTMENT OF MECHANICAL ENGINEERING
INTELLECTUAL PROPERTY CHALLENGES IN ADDITIVE MANUFACTURING

FEEDBACK FORM

Name: P. KABILAN Semester/Year: VII / IV


Date: 21-10-2019 Venue: APJ Abdul Kalam Hall Reg. No. 16TB0430

FEEDBACK QUESTIONS

- A. Were objectives of the workshop clear to you? Y / N Y/N
- B. The contents met with your expectations
1. ~~Strongly disagree~~ 2. Disagree 3. Neutral 4. Agree 5. Strongly agree
- C. The lecture sequence was well planned
1. Strongly disagree 2. Disagree 3. Neutral 4. ~~Agree~~ 5. Strongly agree
- D. The contents were illustrated with adequate examples
1. Strongly disagree 2. Disagree 3. Neutral 4. ~~Agree~~ 5. Strongly agree
- E. The level of the workshop was too high
1. Strongly disagree 2. Disagree 3. Neutral 4. ~~Agree~~ 5. Strongly agree
- F. The contents compared with your expectations was too theoretical
1. Strongly disagree 2. Disagree 3. Neutral 4. ~~Agree~~ 5. Strongly agree
- G. The workshop exposed you to new knowledge and practices
1. Strongly disagree 2. Disagree 3. Neutral 4. ~~Agree~~ 5. Strongly agree

THE CONDUCT OF THE WORKSHOP

- A. The lectures were clear and easy to understand
1. Strongly disagree 2. Disagree 3. Neutral 4. ~~Agree~~ 5. Strongly agree
- B. The teaching aids were effectively used
1. Strongly disagree 2. Disagree 3. Neutral 4. ~~Agree~~ 5. Strongly agree
- C. The material handed out was adequate
1. Strongly disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly agree
- D. The instructors encouraged interaction and were helpful
1. Strongly disagree 2. Disagree 3. Neutral 4. Agree 5. ~~Strongly agree~~


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Signature of the Student

RAJIV GANDHI COLLEGE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING
INTELLECTUAL PROPERTY CHALLENGES IN ADDITIVE MANUFACTURING

FEEDBACK FORM

Name: AJIL SATHI Semester/Year: VII / IV


Date: 21.10.2019 Venue: APJ Abdul Kalam Bldg Reg. No. 16TB0404


FEEDBACK QUESTIONS

- A. Were objectives of the workshop clear to you? Y / N Yes
- B. The contents met with your expectations
1. Strongly disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly agree
 1. Strongly disagree
- C. The lecture sequence was well planned
1. Strongly disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly agree
 4. Agree
- D. The contents were illustrated with adequate examples
1. Strongly disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly agree
 4. Agree
- E. The level of the workshop was too high
1. Strongly disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly agree
 4. Agree
- F. The contents compared with your expectations was too theoretical
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- G. The workshop exposed you to new knowledge and practices
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THE CONDUCT OF THE WORKSHOP

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SEMINAR ON THE TOPIC INTELLECTUAL PROPERTY CHALLENGES IN ADDITIVE MANUFACTURING



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