

# DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

AN AUTONOMOUS INSTITUTE



Approved by AICTE., New Delhi & Permanently Affiliated to JNTU GV  
Accredited by NAAC with 'A' Grade and Inclusion u/s 2(f) & 12(B) of UGC Act  
An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Institute.

NH-16, Anakapalle - 531002, Visakhapatnam, A.P.

Website: [www.diet.edu.in](http://www.diet.edu.in), 9963993229 E-mail: [principal@diet.edu.in](mailto:principal@diet.edu.in)

Letter/File No: DIET/R&D/2024-25/Research Ethics\_1

Date: 18/09/2024

## Proceedings of the Principal

To the faculty members

### Sub: Research Ethics Committee Constitution

The institute has established a research ethics committee to address the following ethical aspects of the research. The committee is tasked with preparing a detailed report on the outcomes of the meeting and submitting it to the office.

1. Plagiarism software and its utilization
2. Patents filing
3. Final year projects batches and schedule of completion

S.NO	Name of the Person	Designation	Status
1	Dr. R Vaikunta Rao	Principal	Chairperson
2	Dr. ASLK Gopalamma	HOD EEE	Member
3	Dr. P. Poorna Priya	HOD ECE	Member
4	Dr. B. Anjanee Kumar	Associate Professor	Member
5	Dr. S Ramana Kumar Joga	Assistant Professor	Member
6	Dr. A Nalinee Kumari	Associate Dean, R&D	Member
7	Dr Rama Kumar P.B	HOD MBA	Member
8	Dr.P.Pavitra	HOD H&BS	Member
9	Dr.K.S.Eswara Rao	Dean Administration	Member
10	Dr. Karimisetty Sujatha	Dean R&D, HOD CSE	Member Secretary

Copy to: Principal's office

All HODS's and R&D Cell:



Dr. R Vaikunta Rao  
Principal

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Autonomous  
Anakapalle - 531002

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Letter/File No: DIET/R&D/2024-25/Research Ethics\_2

Date: 18/09/2024

## Proceedings of the Principal

To the faculty members

### Sub: Research Ethics Committee Constitution

The institute has established a research ethics committee to address the following ethical aspects of the research. The committee is tasked with preparing a detailed report on the outcomes of the meeting and submitting it to the office.

1. Final Year students' projects convert into publication and patents
2. Research Projects and their similarity reports

S.NO	Name of the Person	Designation	Status
1	Dr. R Vaikunta Rao	Principal	Chairperson
2	Dr. ASLK Gopalamma	HOD EEE	Member
3	Dr. P. Poorna Priya	HOD ECE	Member
4	Dr. B. Anjanees Kumar	Associate Professor, IQAC Coordinator	Member
5	Dr. S Ramana Kumar Joga	Assistant Professor	Member
6	Dr. A Nalinees Kumari	Associate Dean, R&D	Member
7	Dr Rama Kumar P.B	HOD MBA	Member
8	Dr.P.Pavitra	HOD H&BS	Member
9	Dr.K.S.Eswara Rao	Dean Administration	Member
10	Dr. Karimisetty Sujatha	Dean R&D, HOD CSE	Member Secretary

Copy to: Principal's office

All HODS's and R&D Cell:



  
Dr. R Vaikunta Rao  
Principal  
Dadi Institute of Engineering & Technology  
Autonomous  
Anakapalle - 531002



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Mobile: +91 9963981111, Website: www.diet.edu.in, E-mail: info@diet.edu.in

## Research & Development Cell

### Composition of R&D Committee

Chair Person: Dr. R Vaikunta Rao *R Vaikunta*

Convener : Dr. K. Sujatha, Professor & HOD, CSE *K Sujatha*

Co-Convener: Dr. A. Nalinee Kumari *A Nalinee*

#### Advisory Committee

Dr. P. Poorna Priya, Associate Professor & HOD, ECE *Poorna*

Dr. A S L K Gopalamma, Associate Professor & HOD, EEE *A S L K Gopalamma*

Dr. P. Pavithra, Associate Professor & Hod, H & BS *P Pavithra*

Dr. P.B. Rama Kumar, Professor & Hod, MBA *P B Rama Kumar*

Sri. A. Venkateswara Rao, Professor & HOD, CSD *A Venkateswara Rao*

Mr. A Devi Prasad, Assistant Professor & HOD, Civil *A Devi Prasad*

Dr. K. S. Eswara Rao, Professor, H & BS *K S Eswara Rao*

Dr. V. V. S. Ramachandram, Professor, H & BS *V V S Ramachandram*

Dr. K. Madhavi, Associate Professor, H & BS *K Madhavi*

Dr. L. Prasanna Kumar, Associate Professor & Hod, CSE *L Prasanna Kumar*

Dr. K. Amarendra, Professor, CSE *K Amarendra*

Dr. B. Anjanee Kumar, Associate Professor, ECE *B Anjanee Kumar*

Dr. K. Rama Rao, Professor, MBA *K Rama Rao*

Dr. Ch. Nageswara Rao, Associate Professor, H & BS *Ch Nageswara Rao*

Dr. G. Ganapathi Rao, Associate Professor, H & BS *G Ganapathi Rao*

#### Coordinators

Dr. M. Srinivasa Rao, Professor, CSE *M Srinivasa Rao*

Dr S R K Joga, Assistant Professor, EEE *S R K Joga*

Mrs. S V Lakshmi, Assistant Professor, CSE *S V Lakshmi*

Mr. N Nagaraju, Assistant Professor, MBA *N Nagaraju*

Dr. K. V. Uma Kameswari, Associate Professor, H & Bs *K V Uma Kameswari*

Mr. V V Prasanna Kumar, Assistant Professor, Civil *V V Prasanna Kumar*

Mrs G Chandrika, Assistant Professor, CSM/D *G Chandrika*



PRINCIPAL  
Dadi Institute of  
Engineering & Technology  
ANAKAPALLE - 531 002.



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## Research & Development Cell

### Composition of R&D Committee

S.No	Name of the Member	Designation	Position	Signature
1	Dr. R Vaikunta Rao	Principal	Chair Person	<i>R Vaikunta Rao</i>
2	Dr. K. Sujatha	Professor, HoD CSE	Convener	<i>K Sujatha</i>
3	Dr. A. Nalinee Kumari	Associate Professor	Co-Convener	<i>A. Nalinee Kumari</i>
4	Dr. P Poorna Priya	Associate Professor, HoD ECE	Advisory Committee Member	<i>P Poorna Priya</i>
5	Dr. A S L K Gopalamma	Associate Professor, HoD EEE	Advisory Committee Member	<i>A S L K Gopalamma</i>
6	Dr. P Pavithra	Associate Professor, HoD H&BS	Advisory Committee Member	<i>P Pavithra</i>
7	Dr. P.B. Rama Kumar	Associate Professor, HoD MBA	Advisory Committee Member	<i>P.B. Rama Kumar</i>
8	Mr. A. Venkateswara Rao	Associate Professor, HoD CSD	Advisory Committee Member	<i>A. Venkateswara Rao</i>
9	Mr. A Devi Prasad	Associate Professor, HoD Civil	Advisory Committee Member	<i>A Devi Prasad</i>
10	Mr. K S Eswara Rao	Professor	Advisory Committee Member	<i>K S Eswara Rao</i>
11	Dr. V. V. S. Ramachandram	Professor	Advisory Committee Member	<i>V. V. S. Ramachandram</i>
12	Dr. K. Madhavi	Professor	Advisory Committee Member	<i>K. Madhavi</i>
13	Dr. K. Amarendra	Professor	Advisory Committee Member	<i>K. Amarendra</i>
14	Dr. K. Rama Rao	Professor	Advisory Committee Member	<i>K. Rama Rao</i>
15	Dr. L. Prasanna Kumar	Associate Professor	Advisory Committee Member	<i>L. Prasanna Kumar</i>
16	Dr. B. Anjanee Kumar	Associate Professor	Advisory Committee Member	<i>B. Anjanee Kumar</i>
17	Dr. Ch. Nageswara Rao	Associate Professor	Advisory Committee Member	<i>Ch. Nageswara Rao</i>
18	Dr. G. Ganapathi Rao	Associate Professor	Advisory Committee Member	<i>G. Ganapathi Rao</i>
19	Dr. M. Srinivasa Rao	Associate Professor	R&D Coordinator (CSE)	<i>M. Srinivasa Rao</i>
20	Dr S R K Joga	Associate Professor	R&D Coordinator (EEE)	<i>S R K Joga</i>
21	Dr. K. V. Uma Kameswari	Associate Professor	R&D Coordinator (H&BS)	<i>K. V. Uma Kameswari</i>
22	Mrs. S V Lakshmi	Assistant Professor	R&D Coordinator (CSE)	<i>S. V. Lakshmi</i>
23	Mr. N Nagaraju	Assistant Professor	R&D Coordinator (MBA)	<i>N Nagaraju</i>
24	Mr. V V Prasanna Kumar	Assistant Professor	R&D Coordinator (CIVIL)	<i>V V Prasanna Kumar</i>
25	Mrs. G Chandrika	Assistant Professor	R&D Coordinator (CSM/D)	<i>G Chandrika</i>



*R Vaikunta Rao*  
Principal

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# Balani Infotech Pvt. Ltd.

(Library Information Services)

CIN No: U72300DL2007PTC164136  
GSTIN: 09AADCB1970E1ZV

## TAX INVOICE

<b>Reverse Charge</b> : N <b>Invoice Number</b> : BL/rn/23-24/190 <b>Invoice Date</b> : 30-Dec-23 <b>State</b> : Uttar Pradesh <b>State Code</b> 09	<b>Subscription Period</b> : 16 October 2023 to 15 October 2024 <b>Exchange Rate</b> : INR <b>Exchange Rate Base</b> : INR <b>Reference No.</b> : Payment Received <b>Reference Date</b> : 30-Dec-23
<b>Details of Receiver   Billed To ass</b> Dadi Institute of Engineering & Technology, Andhra Pradesh National Highway 16, Anakapalle Visakhapatnam-531002 Andhra Pradesh State : Andhra Pradesh State Code : 37 GSTIN :	<b>Details of Consignee   Shipped to</b> Dadi Institute of Engineering & Technology, Andhra Pradesh National Highway 16, Anakapalle Visakhapatnam-531002 Andhra Pradesh State : Andhra Pradesh State Code : 37 GSTIN :

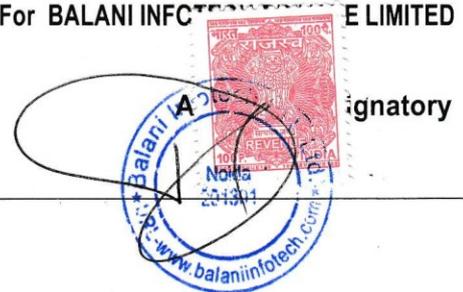
Sr.No.	PRODUCT DESCRIPTION	HSN	QTY	RATE	Disc %	TAXABLE	IGST	TOTAL	
		SAC CODE				VALUE	Rate	Amount	Rs.
1	DrillBit Pro Anti Plagiarism Software 250 Documents Submissions 1 Admin & 1 User Accounts One Year Subscription Period Cloud Based Anti-Plagiarism Software Service	998431	1	25,000.00/Nos		25,000.00	18.00 %	4,500.00	29,500.00

### TOTAL INVOICE AMOUNT (IN WORDS)

<b>Rupees Twenty Nine Thousand Five Hundred Only.</b>	<b>Total Amount Before Tax :</b>	<b>25,000.00</b>
	<b>Total Amount:GST</b>	<b>4,500.00</b>
	<b>Total Amount After Tax</b>	<b>29,500.00</b>
	<b>GST Payable On Reverse Charges :</b>	<b>No</b>

### Terms and Condition:

- The Invoice is valid for payment within a period of 21 days from the date of issue. In case of delay in payment the amount shall be payable as per the exchange rate prevalent on the date of receipt of payment.
- Bank Charges, if any, shall be borne by the Customer, in case of short payment, order will not be processed.
- 100% advance payment required, after receipt of payment, account required 5-7 working days for the activation.
- Please mention Invoice number in Description / Remarks while making NEFT / RTGS Payment.

<b>Bank Details:</b> Beneficiary Name : BALANI INFOTECH PRIVATE LIMITED Bank Name : RBL BANK LIMITED Branch Name : NOIDA BRANCH (P-7, SECTOR-18, NOIDA) Account No : 1383774 RTGS/NEFT Code : RATN0000114 PAN : AADCB1970E	<b>For BALANI INFOTECH PRIVATE LIMITED</b>  <b>Signature</b>
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B-116, Sector-67, Noida - 201301  
Distt. Gautam Budh Nagar  
Uttar Pradesh  
Regd. Office: 119, Vinoba Puri, Lajpat Nagar li  
New Delhi-110024



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III Year - II SEMESTER	L	T	P	C
	2	0	0	0
<b>RESEARCH METHODOLOGY</b>				

## Course objectives:

- To understand the objectives and characteristics of a research problem.
- To analyze research related information and to follow research ethics
- To understand the types of intellectual property rights.
- To learn about the scope of patent rights.
- To understand the new developments in IPR.

## UNIT - I

**Research problem:** Meaning of research problem, Sources of research problem, Criteria Characteristics of a good research problem, Errors in selecting a research problem, Scope and objectives of research problem. Approaches of investigation of solutions for research problem, data collection, analysis, interpretation, Necessary instrumentations

## UNIT - II

**Literature study:** Effective literature studies approaches, analysis Plagiarism, Research ethics, Technical writing: Effective technical writing, how to write report, Paper Developing a Research Proposal, Format of research proposal, a presentation and assessment by a review committee

## UNIT - III

**Nature of Intellectual Property:** Patents, Designs, Trade and Copyright.

**Process of Patenting and Development:** technological research, innovation, patenting, development. International Scenario: International cooperation on Intellectual Property. Procedure for grants of patents, Patenting under PCT.

## UNIT - IV

**Patent Rights:** Scope of Patent Rights. Licensing and transfer of technology. Patent information and databases. Geographical Indications.

## UNIT - V

**New Developments in IPR:** Administration of Patent System. New developments in IPR; IPR of Biological Systems, Computer Software etc, Traditional knowledge Case Studies, IPR and IITs.

## Course Outcomes:

At the end of the course, student will be able to

- Understand objectives and characteristics of a research problem
- Analyze research related information and to follow research ethics.
- Understand the types of intellectual property rights.
- Learn about the scope of IPR.
- Understand the new developments in IPR.

## Text Books:

1. Stuart Melville and Wayne Goddard, "Research methodology: an introduction for science &



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engineering students”

2. Wayne Goddard and Stuart Melville, “Research Methodology: An Introduction”
3. Ranjit Kumar, 2nd Edition, “Research Methodology: A Step by Step Guide for beginners”