

Swarnnim Startup and Innovation University

(Doctorate Program)

Syllabus of Pre Ph.D. coursework Course

Title: Research methodology

1. Course Outcomes (COs)

CO1: Explain the significance, role, aims, objectives, and phases of research.

CO2: Understand the purpose and methodology of literature reviews, and locate, synthesize, and present relevant information.

CO3: Identify research gaps and formulate clear research problems and objectives.

CO4: Design research using qualitative and quantitative methods, including hypothesis formulation, statistical testing, and evaluation.

CO5: Organize and format theses, research papers, and technical reports, and deliver effective oral presentations.

CO6: Recognize and apply ethical standards in research, understand issues related to plagiarism, and comply with intellectual property laws.

2. Total Credits: 06

Credit hours: 90

3. Syllabus:

Unit-I: General Introduction to Research

[Credit hours: 08]

History of Science & Technology: Importance of research, role of research, aims & objectives, research process, phases of research.



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At : Bhoyan Rathod, Gandhinagar.

Swarnnim Startup & Innovation University

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At Post Bhoyan Rathod, Nr. ONGC WSS, Opp. IFFCO Adalaj-Kalol Highway, Gandhinagar, Gujarat - 382420



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Unit-II: Research Problem Formulation

[Credit hours: 23]

Review of Research Literature: Purpose and use of literature review, locating relevant information, use of library & electronic databases, preparation & presentation of literature review, research article reviews, theoretical models and frame work. Identification of research gaps, formulation of research problem, definition of research objectives.

Unit-III: Research Design

[Credit hours: 20]

Qualitative Methods: Types of hypothesis and characterization. Quantitative Methods: Statistical methods for testing and evaluation. Characterization of experiments: Accuracy, reliability, reproducibility, sensitivity, Documentation of ongoing research.

Unit-IV: Research Publication & Presentation

[Credit hours: 20]

Thesis, Research paper, Review Article & Technical Reports: Organization of thesis and reports, formatting issues, citation methods, references, effective oral presentation of research. Quality indices of research publication: impact factor, immediacy factor, H- index and other citation indices.

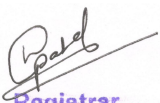
Unit-V: Research Ethics and Morals

[Credit hours: 19]

Issues related to plagiarism, collaborative models and ethics, acknowledgements. Intellectual Property Rights: copyrights, copy left: Patents, Industrial designs, Trademarks.

4. Reference Books:

- What is this thing called Science, Chalmers, A. F., Queens's I and University Press, 1999.
- Methods & Techniques of Social Research, Bhandarkar & Wilkinson, Himalaya Publications, 2009.
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Unit-II: Research Problem Formulation

[Credit hours: 23]

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INDIA'S FIRST UNIVERSITY FOR STARTUP

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5. Text Books:

1. Research Methodology, Methods & Techniques, C.R. Kothari, Viswa Prakashan, 2nd Edition, 2009.
2. Research Methods- A Process of Inquiry, Graziano, A.M., Raulin, M.L, Pearson Publications, 7th Edition, 2009.
3. How to Write a Thesis, Murray, R. Tata McGrawHill, 2nd Edition, 2010.
4. Writing For Academic Journals, Murray, R., McGraw Hill International, 2009.
5. Writing for Publication, Henson, K.T., Allyn & Bacon, 2005.

6. LEARNING OUTCOMES (LOs)

The students will be able to describe the laboratory techniques, safety while using dangerous chemicals, use of internet and databases, online tools, designing a research problem and handling data using statistical tools.

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 pseudonym=02aef9bb174542e5bb44
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DrillBit SoftTech India Pvt Ltd
361/1, second floor, 2nd main road,
7th Block,
Nagarabhavi 2nd stage
Bangalore Karnataka 560072
India
GSTIN 29AAFCD9655A1ZJ

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TAX INVOICE

Invoice #	: DSIPL/24-25/252	Place Of Supply	: Gujarat (24)
Invoice Date	: 14/10/2024	Sales person	: Swara Manduskar
Terms	: Due On Receipt		

Bill To	Ship To
GYAPRASAD JAIN HERITABLE TRUST (SWARNIM STATRUP AND INNOVATION UNIVERSITY) 35.WORLD BUSINESS HOUSE, OPP.PARIMAL GARDEN , ELLISBRIDGE, AHMEDABAD-380006 GSTIN 24AABTG1259L1ZO	SWARNIM STATRUP AND INNOVATION UNIVERSITY At Post Bhoyan Rathod, Near ONGC WSS, Opp. IFCCO, Adalaj Kalol Highway, Gandhinagar, Gujarat 382420

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#	Item & Description	HSN /SAC	Qty	Rate	IGST	Amount
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Total In Words
Indian Rupee One Lakh Eighteen Thousand Only

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Thanks for your business.
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Bank Details

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Bank Name: ICICI Bank Limited

Account Number: 230105000529

IFSC Code: ICIC0002301

Terms & Conditions

Subscription for 1 year from the activation date
Access based on user id and password
TDS @ 2% can be deducted for the technical services based in Finance bill 2020 (Section 194J of Income Tax act)

Sub Total	1,00,000.00
Total Taxable Amount	1,00,000.00
IGST18 (18%)	18,000.00
Total	₹1,18,000.00



Authorized Signature


Registrar
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At : Bhoyan Rathod, Gandhinagar.



Ragin Ravindrabhai Shah

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DrillBit SoftTech India Pvt Ltd

361/1, second floor, 2nd main road, 7th Block,
Nagarabhavi 2nd stage
Bangalore Karnataka 560072
India
GSTIN 29AAFCDD9655A1ZJ

PAYMENT RECEIPT

Payment Date	11/10/2024
Reference Number	NEFT-N285243328529870-SWARAN.
Payment Mode	Bank Transfer
Amount Received In Words	Indian Rupee One Lakh Sixteen Thousand Only

Amount Received
₹1,16,000.00

Received From

**GYAPRASAD JAIN HERITABLE TRUST
(SWARNIM STATRUP AND INNOVATION UNIVERSITY)
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Authorized Signature

Raghu

Registrar
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Payment for

Invoice Number	Invoice Date	Invoice Amount	Withholding Tax	Payment Amount
DSIPL/24-25/252	14/10/2024	₹1,18,000.00	₹2,000.00	₹1,16,000.00



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Management Studies

Sr. No	Name of the Member	Position in the RAC
1	External Expert	Professor/ Associate Professor
2	Dr. Sourbhi Chatturvedi	Professor in the Department
3	Dr. Kavita Kshatriya	Professor & Dean (SIT)
4	Dr. Varsha Patel	Associate Professor
5	Dr. Vishal	Associate Professor & HOD, Incubation Cell

Microbiology

Sr. No	Name of the Member	Position in the RAC
1	External Expert	Honorary member
2	Dr. Archana Pandey	Associate Professor in Department
3	Dr. Priti Mahla*	Associate Professor in Department
3	Academic Dean, SSIU	Guiding Expertise

Mathematics

Sr. No	Name of the Member	Position in the RAC
1	External Expert	Honorary member
2	Dr. Lina Patekar*	Associate Professor in Department
3	Academic Dean, SSIU	Guiding Expertise

Electrical Engineering

Sr. No	Name of the Member	Position in the RAC
1	External Expert	Honorary member
2	Academic Dean, SSIU	Guiding Expertise

No PhD supervisor available in the Department. External expert served as co-supervisor of registered students.


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