

# Research and Publication Ethics

## (As per UGC approved syllabus for Ph.D. students)

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# This presentation is prepared from the following book (Click on the image to get your copy of the book)



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- ▶ Introduction to philosophy and ethics
- ▶ Familiarization with research integrity and publication ethics
- ▶ Identification of research misconduct and actions
- ▶ Awareness about open access and predatory publishing
- ▶ Online tools for literature and journal search
- ▶ Online tools for plagiarism check
- ▶ Citation indexing bibliographic databases
- ▶ Author and journal level research metrics
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- ▶ Definition of philosophy in a broad sense
- ▶ Definition of philosophy from academic point of view
- ▶ Examples of philosophical inquiries
- ▶ Philosophical branches:
  - ▶ Philosophy of arts
  - ▶ Philosophy of biology
  - ▶ Philosophy of education
  - ▶ ...
- ▶ Broad classification of philosophy:
  - ▶ Ethics
  - ▶ Logic
  - ▶ Epistemology
  - ▶ Metaphysics

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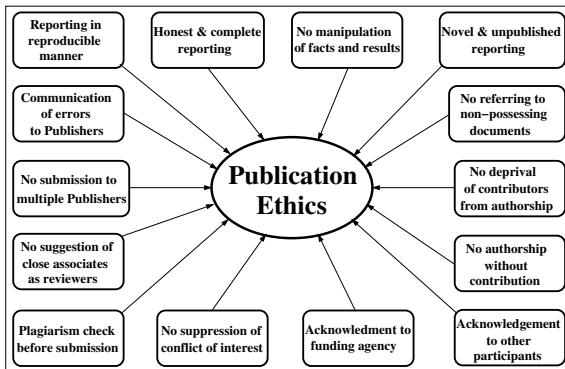
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## ► Falsification:

Hour	Fouling thickness (in mm)	
	Availability of data	Generated false data
0	0	0.0
1	Not available	0.7
...	...	...
5	Not available	9.8
6	15	15.0

## ► Fabrication:



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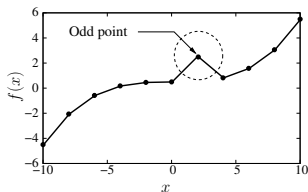
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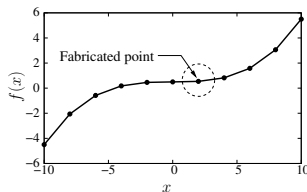
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## ► Fabrication:



(a) Obtained original curve



(b) Fabricated curve

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- ▶ Selective reporting:

Problem ID	Best known minimum	Obtained minimum	Performance of the proposed algorithm	Reporting Decision
1	372	370	Superior	Report
2	0	1.22	Inferior	Suppress
3	25	24.98	Superior	Report
...	...	...	...	...
200	792	805.77	Inferior	Suppress

- ▶ Misrepresentation of data:



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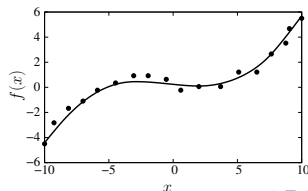
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  - ▶ Overlapping publication
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- ▶ Criminal complaint by Ph.D. student against the supervisor
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The screenshot shows the UGC-CARE List software interface. Red annotations highlight specific features:

- An **Alert** box at the top left.
- A box containing the text **List of cloned journals** with links for **Group I** and **Group II**.
- The main **UGC-CARE List** search area, which includes a dropdown menu labeled **-- Select --**, a text input field labeled **Enter search value**, and a **Search** button.
- An **Important Notices** section on the right, which contains a list of bullet points. Two items in this list are circled in red: **UGC-CARE List Group I** and **UGC-CARE List Group II**.

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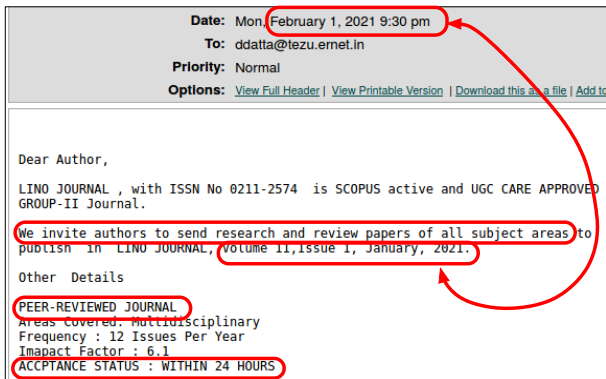
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## Plagiarism Check (*Contd ...*)

- Plagiarism check in Urkund software:






# Plagiarism Check (Contd ...)

- Plagiarism check in Urkund software:

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# Citation Indexing Bibliographic Database

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- ▶ Web of Science database
- ▶ Scopus database
- ▶ PubMed Central (PMC) and MEDLINE database
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# Research Metrics

## ► Journal level metrics:

### ► Impact Factor (or, Journal Impact Factor):

Impact Factor (for a particular year) =

$$\frac{\text{Total number of citations received in previous 2 years}}{\text{Total number of articles published in those 2 years}}$$

### ► CiteScore:

CiteScore in 2020 (in a four-year window) =

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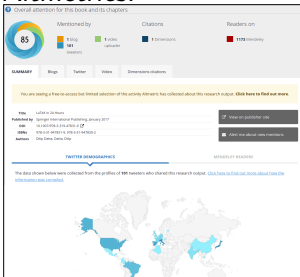
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# How to Complete Ph.D. Successfully in Time? (Appendix)

- ▶ Selection of Institute
- ▶ Selection of supervisor
- ▶ Relationship between student and supervisor
- ▶ Selection of research topic
- ▶ Pre-registration Course work
- ▶ Plan of research
- ▶ Road-map of research
- ▶ Conduct of research
- ▶ Attending Conferences
- ▶ Research publication
- ▶ Start thesis writing from day one



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