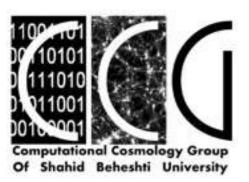
ب_الدائم الر









هرس مطالب

۱) بخشهای مختلف تحقیق و پژوهش ۲) چگونگی انتخاب موضوع پژوهش ۳) چگونگی جستجوی منابع



Rajasekar, S., Philominathan, P., and Chinnathambi,V., "Research Methodology", <i>arXiv e-prints</i>, 2006. doi:10.48550/ arXiv.physics/0601009.

VARIOUS STAGES OF A RESEARCH

- I. Selection of a research topic
- 2. Definition of a research problem
- 3. Literature survey and reference collection
- 4. Assessment of current status of the topic chosen
- 5. Formulation of hypotheses
- 6. Research design
- 7. Data analysis
- 8. Interpretation of result
- 9. Report

I. Selection of a research topic

- Topic should be suitable for research.
- The researcher should have interest in it.
- Topic should not be chosen by compulsion from someone else.

Selection of a research topic by researcher with following advantages:

- the researcher can pursue his/her own interest to the farthest limits,
- there is an opportunity to spend a long time on something that is a continuous source of his pleasure and
- the results would prove better in terms of the growth of the investigator and the quality of the work.

Selection of a research topic by supervisor with following advantages:

- It has almost well-defined road map to pursue.
- It has almost well-defined research methodology.
- It has almost a short-cut for doing literature review

2. Definition of a research problem

Most important tasks to do:

- State the problem in questionnaire form or in an equivalent form
- Specify the problem in detail and in precise terms
- List the assumptions made
- Remove the ambiguities, if any, in the statement of the problem
- Examine the feasibility of a particular solution

The assessment of problem

Most important tasks to do:

(1) Is the problem really interesting to him and to the scientific community?

- (2) Is the problem significant to the present status of the topic?
- (3) Is there sufficient supervision/guidance?
- (4) Can the problem be solved in the required time frame?
- (5) Are the necessary equipments, adequate library and

computational facilities, etc. available?

ASSESSING THE CURRENT STATUS

Most important tasks to do:

(I) Set up a Gantt chart

- (2) Prepared weekly (depending on the progress of research) recap and send to your supervisor
- (3) Participating in discussions in conferences, seminars and workshops based on your research

لز توجه ثما سپائتزار