



## LIMAT M. Tech Project guidelines

### Significance of the Project work

The motive of the project work is principally to demonstrate the application of knowledge and skills acquired during the course work, by studying and analyzing a selected domain systematically while suggesting solutions to the selected domain. The other way, project work is one of the best way to apply what one has learnt as theory and it provides an opportunity to work for a real time concept or an industry problem and apply the learnt concepts scientifically, which enables the application of conceptual knowledge in a practical situation, conducting a study systematically and presenting its finding in comprehensible report.

A Project documentation of a student's project work is a systematically prepared document of the original work done by the student. It provides information on the student's research work to the future aspirants. Project is a full time activity to be opted by the students after the completion of second semester. The students can plan to opt for an appropriate project area even after the completion of first semester as a matter of foresight. During the project period, students have to select a project idea of their interest in line with the specialization the students belong to. The student shall follow the standard process defined by the institution or department, prior to initiating the project to avail maximum benefit from the project work. It shall be assured that the final project report is complete in all respects, only once all the steps defined are addressed, consequently, ascertaining the evaluation of the project work via viva-voce. Students need to adhere to every timeline given in schedules for successful completion of the project work.

### There are many objectives for pursuing a project work, to name a few:

1. lays down a platform for the students to get comprehensive knowledge in the project domain area of specialization they have opted
2. implement the theoretical concepts in practical applications



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3. lays down a pavement to gain hands on experience on problem identification and definition, defining objectives, highlighting the scope, methodology for conducting the study, data analysis and comparing with the literature, practical use of tools, and drawing inference from the results, etc.
4. improve communication skills pertaining to both documentation preparation and presenting the project idea and work.
5. helps in appropriate decision making, which would reflect on steering the future career prospectus.

## Procedure for selecting a project idea or topic

In order to opt a topic for project work and complete it in the stipulated time period, students have to start working from the first year and plan the activities systematically leading to completion of project work. The students have a leeway in opting for a topic of their interest and execute the project or else they can opt for an appropriate topic from list of topics that would be provided by the department to carry out the project work. However, proper guidance shall be provided by the department for proper understanding of the problem taken up and carrying out a systematic research process.

The concerned departmental faculty shall list the project ideas which are available with them every year. The faculty will also work on to list the projects from the previous database of projects the students completed earlier, it is easy to identify the project ideas from the future scope of the previous projects.

Required information shall be procured from alumni on probable opportunities of project ideas as the alumni have already completed the projects. This would either directly or indirectly help in identifying the project ideas, get the idea on objectives, domains, tools, and expected outcome. If needed, a meeting shall be called for an interaction with the alumni to decipher the gravity of pursuing the project work.



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A freehand shall be given to the current students to find references from their contacts as reference for projects in the area of specialization they are opting.

## Criteria for opting project idea

Opting a right topic is a crucial step towards a successful research journey as this is the most important area where majority of the students get confused and have number of queries. Therefore, it is advised that the student shall discuss the topic with the concerned guides. These are a few options taken into consideration while opting for a project domain with specialization:

- ✓ Availability of guides in the specialization opted for
- ✓ Educational background from graduation and their specializations
- ✓ Personal interest
- ✓ Student's passion
- ✓ Career options available in a specified field
- ✓ Topic should be relevant and contemporary
- ✓ Real world issues
- ✓ Feasibility and availability of data
- ✓ Time available at hand
- ✓ Diverse Concepts and Ideas

## Orientation on Specialization

Students will be given an orientation program on various specializations offered by the LIMAT. The concerned departmental faculty in collaboration with the research and consultancy (R&C) will explain and discuss the basic orientation required for selecting the specializations along with sharing the prospective job opportunities available with each of the selected specializations keeping in view the student's interest.

## Project allocation



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The project work shall be initiated at the beginning of the II year and the duration of the project is two semesters. A student shall be permitted to register for the project work after satisfying the attendance requirement of all the courses, both theory and practical.

In consultation with the project guide or supervisor, a student has to submit a problem statement (PS) of the project area opted for approval. The PS in nutshell is a summary of objectives of proposed project, the expected outcomes, scope, domain, tools and the probable methodology which may lead to implementation.

The PRC shall review the project PS submitted by the student and approve the after confining that they are as per the guidelines. In case if the PS is not up to the mark, the project guide shall provide suggestions to the resubmission of the PS by incorporating suggested changes.

After understanding the specializations chosen by the students and verifying the opportunities available with different faculty members, the department shall segregate the students on the basis of their merit and specializations, and offer the project list to opt for the project idea or area.

The concerned departmental faculty members (supervisors or guides) shall conduct a meeting with the students and explain points emphasizing on the necessity of project domain areas, tentative title, and description of the work to be undertaken, research methodology to be followed, tools, etc., that can be used for pursuing the projects.

Based on the complete choice of students, names of the guides allotted for each of the student will be displayed on the notice board. Students have to be in continuous contact with the guides during their practical work.

The student can initiate the Project work, only after obtaining the approval from the Project Review Committee (PRC) comprising of guide, head of the department, senior faculty member and the R&C. Continuous assessment of the status of the project shall be monitored by the PRC.

A student shall be permitted to submit Project Thesis only after successful completion of theory and practical courses with the approval of the PRC not less than the stipulated time period.

In case, if the students have opted a project work in any industry, the students shall submit an acceptance letter from the organization to the guide and department. Students shall plan for as many visits as possible to the selected organization to gain a thorough understanding of the problem of the study and address the identified problem in consultation with guide. The students shall submit the weekly attendance sheets to the department.

Every student is required to give presentations at different stages of their project work in the presence of a PRC. The first presentation shall be given by the students before starting the project work indicating the Identification of the problem, introduction to the title of the project, objectives and methodology and scope of the project. There shall be two to three project reviews to assess the progress of the project.

In this final stage of project work, the students shall prepare the final draft of their project documentation as per the prescribed format prepared by the department after consulting their guides and submit after plagiarism check process. The student shall present the work, wherein it shall be evaluated by the PRC for review on objectives, methodology and tools usage, results and discussion, inferences and conclusion and finally necessary suggestions will be provided to improve the quality.

The students shall incorporate the suggestions and submit their final draft once again for the approval of the guide and PRC.

Student shall submit the final draft for final viva-voce wherein all the students shall present the project work for evaluation by the external examiner as per the schedule provided by the department.

### Approval/Rejection of the project

In case of a student's project being not approved, she/he is not eligible to get final certificate. The student then must rewrite the project based on the remarks of the evaluator.

The project can be disapproved based on it not being an original study i.e., if it is copied or rewritten from an earlier project, incorrect data, insufficient discussion & analysis, typographical



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errors, improper presentation of the project matter, mismatch between the problem studied at hand and the methodology i.e., design, insufficient subject matter etc.

## Organization of the Project documentation (chapter wise)

### Chapter 1: Introduction:

This chapter shall include the introduction of the project area, the statement of research problem, need for study/significance of the project.

**Chapter 2: Literature Review:** This chapter should reflect the student's understanding of the relevant theoretical and empirical background of the problem. Focus should be more on the logical presentation of the empirical evolution of conceptual and methodological issues pertaining to research problem. Also highlighting the methodological clues drawn through the review of project. This chapter shall cover objectives, hypotheses, scope, etc.

**Chapter 3:** Chapter 3 shall cover the methodology, sample design, sources of information, tools and techniques of analysis, etc.

### Chapter 4: Results and discussion

**Chapter 5: Conclusions:** Gives an overview of the project, conclusions, implications and recommendations. Also specify the scope for further research work on the project topic opted.

### Bibliography/References:

List the books, articles, websites that are referred and useful for research on the topic of your specific project.

It is preferable to follow American Psychological Association (APA) style.

**There is a need to make use of the below cited styles while preparing the project documentation**

**(APA manual p. 204)**

#### **A journal article:**

Yan, J., Jiao, H., Pu, W., Shi, C., Dai, J., & Liu, H. (2022). Radar sensor network resource allocation for fused target tracking: A brief review. *Information Fusion*, 86, 104–115.

**A book with a single author: (APA manual p. 203)**

Pinker, S. (2007). *The stuff of thought: Language as a window into human nature*. New York, NY: Viking.

**A book by two or more (but fewer than eight) authors: (APA manual p. 203/4 )**

Graves, R. M., & Cornish, G. S. (1998). *Gift course design*. New York, NY: Wiley.

**A chapter in a book:**

Haybron, D. M. (2008). Philosophy and the science of subjective well-being. In M. Eid & R. J. Larsen (Eds.), *The science of subjective well-being* (pp. 17-43). New York, NY: Guilford Press.

**An entry in an encyclopedia or reference work: (APA manual p. 204)**

Konijn, E. A. (2008). Affects and media exposure. In W. Donsbach (Ed.), *The international encyclopedia of communication* (Vol. 1, pp. 123-129). Malden, MA: Blackwell.

**A newspaper article: (APA manual p. 200)**

Fixmer, R. (1998, September 29). Tiny new chip could pit protection of property against right of privacy. *New York Times*, p. B14.

**Websites, blogs, etc.**

Cain, A., Burris, M. (1999, April). Investigation of the use of mobile phones while driving. Retrieved from [http://cutr.usf.edu/pdf/mobile\\_phone.PDF](http://cutr.usf.edu/pdf/mobile_phone.PDF)

1. Full URL address.

**Need to mention a line about Annexures, if any in the documentation part wherever applicable**

ANNEXURE-I : Domain/Technology

ANNEXURE-II : Any other material (optional)/Research paper