



Birla Institute of Technology & Science, Pilani
Hyderabad Campus

COURSE HANDOUTS AND GUIDELINES

FOR

BITS G540 RESEARCH PRACTICE

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BITS Pilani
Pilani | Dubai | Goa | Hyderabad

ACADEMIC-GRADUATE STUDIES AND RESEARCH DIVISION

BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE PILANI, HYDERABAD CAMPUS





CALENDAR OF EVENTS

I Sem.	Item	From	To
Aug 14,2026	Particulars of RP-1/RP-2 Form	Student	Convener, DRC
Oct 28,2026	Mid. Semester written report and presentation	Student	Supervisor
Oct 31, 2026	Mid. Semester Grade	Supervisor	Convener, DRC
Nov 27,2026	Final RESEARCH PROJECT Report submission and Final viva	Student	Supervisor
Nov 28, 2026	Final Evaluation Form (final grades)	Supervisor	Convener, DRC
Nov 30, 2026	Final Evaluation Form (final grades)	Convener, DRC	AGSRD

Note:

1. If any of the above date happens to be a Sunday or a holiday, the immediate next date will be the calendar date. FINAL RESEARCH PRACTICE REPORT should invariably be submitted on or before the above mentioned date.
2. Student should ensure with his supervisor that the Mid-semester grade and the Final Evaluation form are sent to the **Convener, DRC** by the due date.
3. The time and venue of Seminars is to be fixed by the Supervisor
4. The final presentation is to be held as per the Calendar of Events above. Students should invariably submit final report on or before the above mentioned dates
5. Specified formats of the Cover/Title page and certificate from the supervisor should be adhered to in the preparation of final report. Attention should be given to the items in the checklist for preparation of the report.





ACADEMIC-GRADUATE STUDIES AND RESEARCH DIVISION
FIRST SEMESTER 2026-27
COURSE HANDOUT: BITS G540: RESEARCH PRACTICE

Instructor In-charge : Associate Dean, AGSRD

Instructors : All Supervisors

1. Aims and Objectives

This course aims at training the higher degree students towards acquiring competence in research methodologies, writing research reports / proposals, teaching, enhancing experimental/ laboratory skills, providing opportunities for involvement in laboratory/ course development activities and such other related professional knowledge/skills

2. Scope of the Course

The course broadly covers following aspects:

- (i) Research proposal
- (ii) Development related activities
- (iii) Research related activities

The 25% weightage would be for the project proposal, which the student would be required to write, based on the skills acquired.

For developmental activities, which carry 25% weightage, the supervisor would assign to the student working with him an appropriate developmental work, which can be related to Centers/ Laboratories/ Assistance in course development or in the R&D activities of the supervisor. The student would have the teaching/research skills by assisting the supervisor in teaching, evaluation and research activities of the supervisor.

Under the research related activities, which carries 50% weightage, a broad topic of research will be assigned to the higher degree student by the Supervisor and the student would conduct literature search in the specified area, learn various research methodologies/ techniques for data collection and data analysis, testing techniques/ methods etc and deliver seminars in his/her research area to the supervisor. The student should also write research reports that along with the seminar/viva would form part of evaluation component related to research related activities.

3. Operational Details

1. Associate Dean, AGSRD will e-mail the list of students registered for RP course around the first week of the semester. Any discrepancy should be brought to the notice of Dean, AGSRD at the earliest and latest by the second week of semester.
2. Within 2 weeks of registration, the student should prepare the work plan (research proposal) for his research project and also for the developmental activities in consultation with the supervisor. The student should get these work plan approved by the supervisor and submit a copy of the same along with the “**particulars of research practice**” form (attached to this hand-out).
3. Mid semester grading will be done by the supervisor based on the work done and progress made towards planned objectives by the student in the assigned research area. The student is required to submit mid semester report describing the work done and





progress made by him. He should also deliver a seminar to highlight these activities. Supervisors will grade the student for mid semester on the basis of the mid semester report described above and the Seminar presented by the student.

4. The student should submit mid-semester report in the 9th week (see calendar of events) of the semester to the supervisor and this should be followed by seminar/presentation by the student. The supervisor in turn is required to send mid-semester grades of all the students working with him/her to Convener, DRC by the end of 9th week of the semester. (Please refer to the date mentioned in the calendar of events)
5. End semester report would provide details of work done by the student. End semester report should be submitted to the supervisor in the 15th week of the semester (please refer to the calendar of events) and should be followed by seminar/presentation.
6. Every student would write a research proposal. This research proposal would form a part of the final (end semester) report. The research proposal carries 25% weightage and should be written in the proper format i.e. (i) Topic of Research (ii) Background and current status of research work in the area as evident from the literature search/review, (iii) scope of the proposed research work, (iv) methodology (v) work plan and time schedule (vi) references and bibliography. The references and bibliography should be written in standard format and should be cited within the text of the research proposal.
7. Properly written research proposal would help the student for his Higher Degree Dissertation (HDD) course, if he/she continues in the same area for HDD too.

4. Evaluation Scheme

Component	Indicators	Weightage
1. Research Proposal	Format	05
	Research Plan document and Presentation	20
2. Development related Activities	Report (5 for mid and 10 for end semester)	15
	Viva/presentation (5+5)	10
3. Research related activities	Reports (10 for mid and 20 for end semester)	30
	Seminar/presentation/viva (5 for Mid and 15 for end semester)	20
Total		100

8. The concerned supervisor will announce mid-semester grade to the student sometime in the 9th week of the semester. The supervisor should submit the mid-semester evaluation form to Convener, DRC by the end of 9th week of the semester. The supervisor should submit the final evaluation form to Convener, DRC on or before the date mentioned in the calendar of events.

Please note that there is one presentation and one report each for mid-sem and final evaluations. Typically, the mid-sem presentation and report can include the research proposal and any work done towards research and development related activities. The end-sem presentation and report should include any research and development related activities thereof.

Please ensure that all reports have been subjected to a “Turnitin” check.





5. Course Notices

Notices pertaining to this course will be displayed on CMS.

6. General

Part – 1 of the Handout should also be consulted.

Check List of Items for Final Report of Research practice

1. Is the Report's 'Cover/Title page' in proper format?
2. Is 'Supervisor's Certificate' in proper format? Has it been signed?
3. Is 'Abstract' included in the Report? Is it in properly written?
4. Does the 'Table of Contents' page include chapter page numbers?
5. Does the Report contain a summary of the literature survey?
6.
 - (a) Are the Pages numbered properly?
 - (b) Are the Figures numbered properly?
 - (c) Are the Tables numbered properly?
 - (d) Are the Figures and tables titled properly?
 - (e) Are the Appendices numbered?
7. Does the Report have 'Conclusion' of the work?
8. Are References/Bibliography given in the Report?
9. Have the 'References' been cited in the Report?
10. Is the citation of 'References and Bibliography' in the standard format?

Attention should be paid on the above items while preparing the FINAL REPORT. Supervisors are also requested to ensure that their candidate(s) have prepared the FINAL REPORT properly.

Illustrative Examples of Citation of References:

1.	Book: A. Gelb, Applied Optimal Estimation. Cambridge, M.A.; M.I.T. Press, 1974
2.	A paper in Conference or Symposium Proceedings edited Published by Book Company: R.E. Kalman, 'New Methods in Wiener filtering theory', in Proc. First Symposium on Engineering Applications of Random Function Theory and Probability' J.L. Bogdanoff and F. Kozin, Eds. New York, Wiley, 1963, pp. 270-388
3.	A Journal Paper: R.E. Kalman and N.S. Pucy, 'New results in linear filtering and prediction theory', Trans. ASME, J.Basic Eng., Vol. 83-D, pp. 95-108, Mar. 1961
4.	A Conference Paper: M. Vidyasagar and N.K. Bose, 'Input-output stability of linear systems defined over measure spaces', in Proc. Midwest Symp. Circ. Syst., Montreal, P.O. Canada, Aug. 1975, pp 394-397
5.	A Ph.D. dissertation or Dissertation A.C.G Viera, 'Matri, orthogonal polynomials, with applications to autoregressive modeling and ladder forms', Ph.D. Dissertation, Stanford Univ., Stanford, CA, Dec. 77
6.	A Private Communication W.M. Wonham (1982) Private Communication





ACADEMIC-GRADUATE STUDIES AND RESEARCH DIVISION

FIRST SEMESTER 2026 -27

MID SEMESTER EVALUATION FORM BITS G540: RESEARCH PRACTICE

ID No. _____ Name of Student _____

Name of Supervisor _____

Evaluation:

S. No.	Evaluation component	Activity	Max marks	Marks awarded
1.	Research proposal	Format	5	
		Research Plan document	5	
		Presentation	15	
2.	Development related	Report	5	
		Presentation	5	
3.	Research related	Report	10	
		Presentation	5	
Total			50	

Mid. Semester Grade Recommended (**A/A-/B/B-/C/C-/D/E**):

Reports, if any (NC/I, See Academic Regulation
4.12) (Give reasons)

Date: _____

(Signature of Supervisor)

NB: Student should fill his particular in this copy and submit it to the Supervisor for evaluation





ACADEMIC-GRADUATE STUDIES AND RESEARCH DIVISION

FIRST SEMESTER 2026 -27

FINAL EVALUATION FORM BITS G540: RESEARCH PRACTICE

(To be submitted by the supervisor as per the calendar of events)

ID No. _____ Name of Student _____

Name of Supervisor _____

Evaluation:

S.No.	Evaluation component	Activity	Mid Semester		End Semester		Total Marks
			Max marks	Marks awarded	Max marks	Marks awarded	
1.	Research proposal	Format	5		-	-	
		Research Plan document	5				
		Presentation	15		-	-	
2.	Development related	Report	5		10		
		Presentation	5		5		
3.	Research related	Report	10		20		
		Presentation	5		15		
Total			50		50		100

Mid Semester Grade Recommended (A/A-/B/B-/C/C-/D/E):

Total marks out of 100 (i.e. Total of mid and end semester marks -----)

End Semester Grade Recommended (A/A-/B/B-/C/C-/D/E):

Reports, if any (NC/I)

(Give reasons)

Date: -----

(Signature of Supervisor)

NB: Student should fill his particulars in this copy and submit it to the supervisor for evaluation.





ACADEMIC-GRADUATE STUDIES AND RESEARCH DIVISION
FIRST SEMESTER 2026 -27

Particulars of Research Practice

The student should correctly fill in this proforma immediately after all the changes (in topic, supervisor or both) are finalized and submit it to the **Convener, DRC** within two weeks of registration along with a copy of the work plan duly approved by supervisor

Name -----ID No. -----

Name of Supervisor -----

RESEARCH PRACTICE Topic -----

Research area (consult Bulletin) -----

Work plan for Research Practice

(Attach extra sheet if necessary)

Aim or objective of the project work:

Background of work:





Birla Institute of Technology & Science, Pilani
Hyderabad Campus

Plan of work:

Bibliography and References:

Signature of student

Signature of Supervisor

Signature of Co-Supervisor

