

COURSE HANDOUTS AND GUIDELINES

FOR

BITS G562/563T/564T/629T DISSERTATION

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ACADEMIC GRADUATE STUDIES AND RESEARCH DIVISION

**BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI
HYDERABAD CAMPUS**

CALENDAR OF EVENTS

| II Sem. | Item | From | To |
|---------------|---|---------------------|--------------------------|
| Jan 20 | TS-1 Form (Detailed outline of work) | Student | Supervisor |
| Jan 24 | TS-1 form (Detailed outline of work) | Supervisor | DRC Convener |
| Feb 13 | Viva –I/Seminar I | Student | Supervisor |
| Mar 26 | Mid. Semester written report and presentation | Student | Supervisor/ Examiners |
| Mar 27 | Mid. Semester Grades | Supervisor | DRC Convener |
| Apr 04 | Viva – II/Seminar II | Student | Supervisor |
| Apr 27 | Final thesis report submission (2 copies) | Student | Supervisor |
| Apr 28 | Final Viva/Seminar | Student | Supervisor/ Examiners |
| Apr 29 | Final Dissertation Report, Final Evaluation Form (1 copy each) Final Evaluation Form (1 copy each) | Supervisor | DRC Convener |
| Apr 29 | Soft copy of the Final report (No hard copy required by AGSRD) & Final Evaluation Form | DRC Convener | AGSRD |

N.B

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 DISSERTATION REPORT should be invariably be submitted on or before the above mentioned date.
2. Student should ensure with his/her supervisor that the Mid Semester grade and the Final Dissertation Report, Dissertation Abstract and Final Evaluation form are sent to the DRC/HOD by the due date.
3. The time and venue of Seminars to be fixed by the Supervisor
4. The Final viva- voce examination is to be held on the date announced by DRC/HOD. The Supervisor in consultation with examiner will fix the venue and time. Students should invariably submit final dissertation 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 check list for preparation of the report. Supervisors are requested to sign the certificate page in the report and signed copy of dissertation report should be made available to the examiners well in advance.

BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI HYDERABAD CAMPUS
ACADEMIC GRADUATE STUDIES AND RESEARCH DIVISION
SECOND SEMESTER 2025 - 26
COURSE HANDOUT: BITS G562/563T/629T DISSERTATION

Instructor in-charge : Associate Dean, AGSRD

Instructors : All Supervisors

1. COURSE DESCRIPTION

This course deals with the research and development work in assigned areas of professional interest. Each student will work under the overall guidance and supervision of a faculty member/professional. The course must end with a well defined final report outlining all the investigations, achievements and conclusions at the end of each semester. Reference and bibliography in standard format are also to be included in the report.

2. SCOPE AND OBJECTIVE OF THE COURSE

The aim of this course is to carry out a research and development project in assigned areas of professional interest. The course envisages student's training in the methodology of research and presentation of the research findings in the form of a scientific report.

3. OPERATION OF THE COURSE

- a) The student should immediately chalk out a plan of work in Consultation with his/her supervisor. Current literature (journals, books, etc.) Must be methodically reviewed and the status of the work in the field must be considered. The detailed outline of work must reflect a survey of the current literature in the same area and must include topic of research, objective, background of previous work in the area, methodology and a work plan with a time schedule clearly indicating the intermediate milestones and the estimated time to achieve the same along with references and bibliography.
- b) Within two weeks of registration, the student should give a Dissertation particular to the DRC Convener in TS-1 Proforma.
- c) The student should regularly interact with his/her supervisor and present seminars and submit reports on the scheduled dates. Proposed examiners and other faculty in relevant area may be requested to attend the presentations.
- d) Supervisor will announce the Mid-semester grade to his/her student and send the MID-SEM Evaluation Form to the DRC Convener.
- e) TWO typed copies of Final Dissertation Report and Abstract are to be submitted to the supervisor on or before the last day of class work in each semester. Supervisor will retain a copy and send the remaining ONE copy after the viva-voce examination along with the Final Evaluation Form and Dissertation Abstract to the DRC Convener.
- f) Every student has to sign his/her attendance regularly with the supervisor or as per the alternative arrangement made by the supervisor. An attendance sheet is being provided for this purpose to the supervisor.
- g) The candidate should apply and seek prior permission of his/her supervisor for going on leave for any genuine needs. If the leave of absence exceeds **seven** days in the entire semester, the recommended final grade may be revised by the Instructor/ Instructor in-charge.
- h) The following format for Dissertation Abstract should be used:

Format for submission of Dissertation Abstract

Dissertation Title:

Supervisor:

Semester:

First/Second

Session

Name of Student:

ID No.

Abstract

Abstract in the above format should also be included in the bound report.

- i) A separate Dissertation topic has to be assigned to individual students. Wherever the broad area is same, the aspects to be researched by an individual candidate should be clearly focused and spelt out.
- j) Utmost care should be taken in the preparation of the FINAL REPORT. A check-list of various items is provided and students should carefully go through these. Supervisors are also requested to examine the draft of the FINAL REPORT keeping in view the items in the check-list.

4. EVALUATION

Evaluation in this course is essentially individual oriented. The various instruments of evaluation along with the weightage of components are given below:

| Component | Weightage |
|--------------------------|-----------|
| Viva –I | 5 |
| Mid. sem. written report | 10 |
| Mid. sem. presentation | 10 |
| Viva –II | 15 |
| Final Dissertation* | 25 |
| Final Viva-voce* | 35 |

*Final Viva-voce examination and evaluation of the Dissertation is to be jointly done by the Supervisor and the examiners appointed by the DRC/HOD. The other components are to be evaluated by the supervisor and the details are to be made available to the examiner at the time of final viva.

Supervisor will send the copy of Dissertation report to the examiner well in advance. Before sending he should check the contents as per checklist and sign the 'Certificate' page and rule out the possibilities of any plagiarism pertaining to the contents of the dissertation report.

The evaluation will recognize the day-to-day work involvement and punctuality of the student in his/her work. Evaluation in various components shall take into account work progress and achievements, technical/professional competence, documentation and expression, initiative and originality, punctuality and reliability, self-reliance, and acquisition of special skills. The student should extend full cooperation to his/her supervisor and interact with him in advance about the time, venue and mode of each evaluation. He / She should be in constant touch with his/her supervisor. Supervisor may require his/her student to sign the attendance sheet before a particular time on each working day.

Grading will be done mainly on the basis of the progress made towards attaining the overall objectives of the Dissertation. The supervisor shall evaluate various prescribed components of evaluation before the submission of final Dissertation. The supervisor shall evaluate the various prescribed components of evaluation before the submission of final report. He/she should seek utmost participation of examiner by inviting him to the various seminars.

The final report and performance in the final viva are to be jointly evaluated by the Supervisor and examiners appointed by the DRC/HOD. The student will have to defend the work appearing in his/her Dissertation before the examiners. Evaluation in various components can be done on the basis of marks or grades. However, the recommendations for the final award shall invariably be made in terms of one of the prescribed letter grades, viz. **A/A⁻/B/B⁻/C/C⁻/D/E**.

Immediately after the final viva, ONE copy each of the Dissertation Report and Dissertation Abstract along with the completed Final Evaluation Form are to be submitted to the DRC/HOD by the supervisor. The student should also ensure with his/her supervisor so that these reach the Division well before the last date of comprehensive examination.

5. MID SEMESTER GRADING

This will be announced by the supervisor to his/her student as per the date mentioned above. Mid-semester evaluation form should be returned by the supervisor to the DRC/HOD as per the deadline.

6. GENERAL

- a) It is the responsibility of the student to ensure continuous interaction with his /her Supervisor.
- b) Prescribed formats of the Cover/Title page and certificate from the supervisor should be adhered to in the preparation of final Dissertation Report. Check-list of items for the preparation of the FINAL REPORT should also be consulted. The following sequence may be followed in the preparation of the Dissertation Report:
 - Title page (inner cover)
 - Acknowledgement
 - Certificate from the Supervisor
 - List of Symbols & Abbreviations used
 - Dissertation Abstract
 - Table of contents
 - Chapters 1, 2, 3, etc.
 - Conclusion
 - Appendices
 - Bibliography/References
 - List of Publications/Conference Presentations, if any.

- c) The registration in Dissertation course is normally done after the completion of coursework. 16 Units of Dissertation will be assigned at the time of registration. Units put upto a maximum of 25 may be permitted depending upon the total time and effort put in by an individual student. Registration in more than 16 units of Dissertation will normally be available only to students who have taken Higher Degree courses as electives in their first-degree programs. Concurrent registration for nominal 8-9 units per semester in Dissertation with course work is also permissible for motivated, well prepared and hard working students.

Check List of Items for Final Report of Higher Degree Dissertation

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 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.

Please note that a soft-copy of the final report must be submitted by the supervisor to his/her DRC and the DRC should send the same to AGSRD on or before the date mentioned in the calendar of events. The student/supervisor should perform a "Turnitin" check on the report and attach the Turnitin "digital receipt" and "originality report" to the final dissertation report before submitting to DRC.

Illustrative Examples of Citation of References:

| | |
|---|--|
| 1 | Book: A.Gelb, Applied Optimal Estimation. Cambrige, 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', Tans. ASME, J.Basic., Col. 83-D, pp 95-108, Mar.1961 |
| 4 | A Conference Paper: M.Vidyasagar and N.K. Bose, 'Input-ouput stability of linear systems defined over measure spaces', in Proc. Midwest Symp. Ciro, Syst., Montreal, P.O. Canada, Aug.1975, Pp 394-397 |
| 5 | A Ph.D thesis or Dissertation A.C.G Viera, 'Matri, orthogonal polynomials, with application to autoregressive modeling and ladder forms', Ph.D Thesis, Standford Univ., Stanford, CA, Dec.77 |
| 6 | A Private Communication W.M. Wonham (1982) Private Communication |

Format of the Cover/Title page of the Dissertation

(Title of the Dissertation)

Thesis
Submitted in partial fulfillment of the requirements of
BITS G562/563T/629T DISSERTATION

By

(Author)

ID No. ()

Under the supervision of

(Name and Designation of Supervisor)
&

(Name and Designation of Co-supervisor)



BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI HYDERABAD CAMPUS

(Date)

Format of `Certificate from the Supervisor`

CERTIFICATE

This is to certify that the Dissertation entitled “_____”
_____” and submitted by
_____ ID No. _____ in partial fulfillment of the requirement of BITS
G562/563T/564T/629T. Dissertation embodies the work done by him/her under my supervision.

Signature of the Supervisor

Name

Designation

Date:

Signature of the Co-supervisor

Name

Designation

Date:

BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI
HYDERABAD CAMPUS
ACADEMIC GRADUATE STUDIES AND RESEARCH DIVISION
SECOND SEMESTER 2025 - 26

MID SEMESTER EVALUATION FORM- BITS G562/563T/629T DISSERTATION

Section I PARTICULARS (TO BE FILLED BY STUDENT AND RETURNED TO SUPERVISOR)

ID No. _____ Name of Student _____

Title of Dissertation _____

No. of units registered _____

Section II EVALUATION DETAILS (TO BE FILLED BY SUPERVISOR)

| S.No. | Evaluation Component | Max. Marks | Marks awarded |
|-------|--------------------------|------------|---------------|
| 1. | Viva –I | 05 | |
| 2. | Mid. Sem. Presentation | 10 | |
| 3. | Mid. Sem. Written Report | 10 | |
| | Total | 25 | |

Recommended Mid-semester grade **(A/A-/B/B-/C/C/D/E)**:

Report , if any (NC/I, See Academic Regulation 4.12):

(Give Reasons)

Date: _____

Names of: Examiner 1

Examiner 2

Supervisor

Co- Supervisor

Signatures of: Examiner 1

Examiner 2

Supervisor

Co- Supervisor

NB: Supervisor should announce the mid semester grades to his student directly and return the form to the DRC/HOD.

BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE- PILANI HYDERABAD CAMPUS
ACADEMIC GRADUATE STUDIES AND RESEARCH DIVISION
SECOND SEMESTER 2025 - 26

END SEMESTER EVALUATION FORM: BITS G562/563T/629T DISSERTATION

ID No. _____ Name of Student _____

Title of Dissertation-----

I. Evaluation

| S.No. | Evaluation Component | Max. Marks | Marks awarded |
|-------|--------------------------|------------|---------------|
| 1. | Viva –I | 05 | |
| 2. | Mid. Sem. Presentation | 10 | |
| 3. | Mid. Sem. Written Report | 10 | |
| 4. | Viva – II | 15 | |
| 5. | Final Thesis Report | 25 | |
| 6. | Final Viva | 35 | |
| | Total | 100 | |

Recommended Mid-semester grade **(A/A-/B/B-/C/C-/D/E)**:

RECOMMENDED FINAL GRADE (A/A-/B/B-/C/C-/D/E):

No. of Units

(i) Registered _____ (ii) Recommended by Supervisor* _____

Reports, if any (NC/I, See Academic Regulations

4.12) (Give Reasons)

Supervisor's rating

| | |
|-------------------------------|----------------------------------|
| Work Progress and Achievement | A / A- / B / B- / C / C- / D / E |
| Technical competence | A / A- / B / B- / C / C- / D / E |
| Documentation and expression | A / A- / B / B- / C / C- / D / E |
| Initiative and originality | A / A- / B / B- / C / C- / D / E |
| Punctuality | A / A- / B / B- / C / C- / D / E |
| Reliability | A / A- / B / B- / C / C- / D / E |

Date:----

Semester-----

Names of: Examiner 1

Examiner 2

Supervisor

Co- Supervisor

Signatures of: Examiner 1

Examiner 2

Supervisor

Co- Supervisor

BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI HYDERABAD CAMPUS
ACADEMIC GRADUATE STUDIES AND RESEARCH DIVISION
PARTICULARS OF DISSERTATION- : BITS G562/563T/564T/629T DISSERTATION

SECOND SEMESTER 2025 - 26

The student should correctly fill in this Performa immediately after all the changes (in topic, supervisor or both) are finalized and submit to DRC/HOD within two weeks of registration.

A. Personal Particulars

ID No. _____ Name: _____

Local Address: _____

Email Address _____

Permanent Home Address & Tel. No. of any _____

B. Dissertation Particulars

Name of Supervisor: _____

Name of Co-Supervisor: _____

Dissertation topic: _____

No. of units already completed: _____

No. of units registered in the current semester: _____

Date:

Signature of Student

Panel of Examiners (To be filled by the Supervisor)

| S. No. | Name of Faculty | Group/Div./Unit |
|--------|-----------------|-----------------|
| 1 | | |
| 2 | | |

Date:

Signature of Supervisor

Signature of Co-Supervisor

Higher Degree Dissertation Project Outline
(Attach extra sheet if necessary)

Aim or objective of the project work:

Background of work:

Plan of work:

Bibliography and References:

Signature of student

Signature of Supervisor

Signature of Co-Supervisor

BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI HYDERABAD CAMPUS
ACADEMIC GRADUATE STUDIES AND RESEARCH DIVISION

ATTENDANCE SHEET FOR HIGHER DEGREE DISSERTATION STUDENTS
SECOND SEMESTER 2025 - 26

I. PARTICULARS

Name of student _____ ID No. _____ Supervisor _____

Hostel _____ Room No. _____

II. Attendance (Student to sign his initials)

| Month | DATES | | | | | | | | | | | | | | | | Total working days | Days absent |
|---------|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------------------------|----------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | | |
| Aug/Jan | | | | | | | | | | | | | | | | | | |
| | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | | | |
| | | | | | | | | | | | | | | | | | | |
| Sep/Feb | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| Oct/Mar | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| Nov/Apr | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| Dec/May | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

Note: Supervisor may decide to keep this sheet with him or with the Group/Division office (in consultation with the incharge and ask the student to sign on each working day before a particular specified time. This sheet should be returned to DRC/HOD along with the Final Evaluation Form.

Date:

Signature of Supervisor