**Instructions and Format for MSc Biotechnology/Microbiology (Semester IV) Dissertation**

Instructions:

1. The students have to follow strictly the format given below
2. The front page (See Sample) should be same as on the hard bound as well as within the dissertation
3. Certificate of Director should be on the letter head of CGBIBT and kept first, followed by the Certificate of Guiding teacher which should be on the letter head of his/her working place
4. There should be an Index page followed by Acknowledgement. List of Abbreviations in the text if necessary would follow acknowledgement page/s
5. Students have to organise their dissertation into Introduction, Materials and Methods, Results, Discussion, Summary and References
6. All text pages should be numbered except, Acknowledgement, Table and Plates with Figures as well as the legend pages

Format for Dissertation:

**Acknowledgements:** This page should be numbered as ‘*i* ’

**Introduction:** This should cover brief details of background information, followed by references as evidenced in the sited literature. The aims and objective of initiating the study should be clearly explained in the concluding paragraphs of the introduction. The end paragraph should justify the use of the methodology that was followed.

All Text should be typed in Times New Roman, Font: 12, with double spacing between the lines and standard margins. Correct and complete referencing is the obligation of the student. In the text, references should be inserted in parentheses in full.

For Example:

1. [For single author]

..........and animals **(Nadkarni, 1976)**

1. [For two authors]

........toxicity of plant **(Singh and Singh, 2003)**

1. [For more than two authors]

.......mixture of chemical **(Kross *et al*, 1982)**

[For sole study more than one reference, if so...]

.......DNA damage **(Cornforth, 1998; Richardson and Jasin, 2000; Sachs *et al*, 2003)**

1. [when sentence begins with reference]

**Gupta (2012)** reported that.....

**Materials & Methods:** Referencing pattern **s**ame as in introductory text. Detailed description of the methods and the methodology followed should be given. All methods should be described in the past tense. A separate list of chemicals and their manufacturing company information should be given in the beginning of the Materials and Methods section

**Results:** Complete description of the results should be given, and should be compiled either in the form of Table, Figures or Graphs. Tables should be kept on separate sheet on left hand Side. Each table should bear a specific table number (eg Table 1, Table 2,...etc) and should have explanatory heading. Foot notes of table should include any abbreviations used. Symbols symbolising statistical significances should be explained below the table on the table page itself. Any Figures, Photographs Graphs or Art Work should be kept on a separate page (right hand side) with respective explanatory legends on the left hand side. Figures in the text should be mentioned as Fig 1, Fig2....etc.

**Discussion:** Discussion should be concise, and need not repeat the long references from the introduction. It should try to explain the reasons for the observed results and should include supporting references only. A balance should also be maintained between those references that contradict your results as well. The ending paragraphs should try to explain the probable mechanisms involved that led to the formation of results. Discussion section should end with a paragraph explaining the relevance or application of your findings

**Summary:** A short and concise summary should describe the objective of initiating the study, methodology and strategies applied, results obtained and the probable implication of the study

**References:** Arrange all references cited in the text at the end in alphabetical order in the following style:

**Davies JC, (1994)**

Inactivation of antibiotics and the dissemination of resistance genes

*Science* **264**: 375-382

**Jagetia GC, Baliga MS, (2002)**

Influence of the leaf extract of *Mentha arvensis* Linn. (Mint) on the survival of mice exposed to different doses of gamma radiation

*J. Ethnopharmacol.* **96**: 91-98

**Usseinimehr SJ, Shafiee A, Mozdarani H, Akhlagpour S, (2001)**

Effects of 2-iminothiazolidine derivatives against lethal dose of gamma radiation in mice

*J. Radiat. Res.* **42**: 401-408

For chapter in the book:

**Joshi SB, (2000)**

Cesalpinaceae **In:** The text book of Medicinal plants

Oxford and IBH publishing Co. Pvt. Ltd, New Delhi, pp 119

For book:

**Nadkarni AK, (1976)**

Indian Materia medica, Popular Prakashan, Bombay, pp 381-383