

University of Mumbai



No. UG/ 15 of 2019-20

CIRCULAR :-

Attention of the Principals of the affiliated Colleges and Directors of the recognized Institutions in Humanities and Science & Technology Faculties is invited to this office Circular No. UG/16 of 2018-19, dated 14th June, 2018, relating to syllabus as per the (CBCS) for T.Y.B.A./T.Y.B.Sc. in Geography (Sem V & VI).

They are hereby informed that the recommendations made by the Board of Studies in Geography at its meeting held on 19th December, 2018 have been accepted by the Academic Council at its meeting held on 26th December, 2018 vide item No. 4.19 and that in accordance therewith, the matter of distribution of marks of T.Y.B.A./T.Y.B.Sc. Semester VI Paper – IX Research Methodology in Geography has been brought into force with effect from the academic year 2018-19, accordingly. (The same is available on the University's website www.mu.ac.in).

MUMBAI – 400 032

14th May, 2019

(Dr. Ajay Deshmukh)
REGISTRAR

To

The Principals of the affiliated Colleges, the Head of the University Departments and Directors of the recognized Institutions in Humanities and Science & Technology Faculties. (Circular No.UG/334of 2017-18 dated 9th January, 2018.)

A.C/4.19/26/12/2018

No. UG/ 15 -A of 2019-20

MUMBAI-400 032

14th May, 2019

Copy forwarded with Compliments for information to:-

- 1) The I/c Dean, Faculty of Humanities,
- 2) The I/c Dean, Faculty of Science & Technology,
- 3) The Chairman, Board of Studies in Geography,
- 4) The Director, Board of Examinations and Evaluation,
- 5) The Director, Board of Students Development,
- 6) The Co-ordinator, University Computerization Centre,

(Dr. Ajay Deshmukh)
REGISTRAR

University of Mumbai
Revised Syllabus w.e.f. Academic Year, 2018-19 (CBCSCS)
T.Y.B.A. / T.Y.B.Sc. Geography, Semester – VI
Paper – IX : RESEARCH METHODOLOGY IN GEOGRAPHY
Course Code:

Syllabus

Paper – IX	RESEARCH METHODOLOGY IN GEOGRAPHY	No. of Lectures
UNIT I	Research Methodology in Geography	9
1.1	Research in Geography: Concept, Types, Steps and Significance	
1.2	Research Methodology: Meaning and Types (Qualitative and Quantitative)	
1.3	Defining the Research Problem: Meaning, Need and Techniques	
1.4	Research Designs: Concept, Need and Features	
UNIT II	Data Collection and Processing	9
2.1	Sample Design, Measurement and Scaling	
2.2	Data Collection in Geography: Types (Primary and Secondary) and Methods (Observation, Questionnaire, Schedule, Interview, etc.)	
2.3	Role of Internet in Research: Online Research Referencing (Shodhganga, INFLIBNET, ResearchGate, Academia, Mendeley, etc.)	
2.4	Data Processing: Editing, Coding, Classification and Tabulation	
UNIT III	Data Analysis	9
3.1	Data Analysis: Meaning, Significance and Types	
3.2	Using MS-Excel and SPSS for Data Analysis: Graphical, Descriptive and Inferential Statistical Representation	
3.3	Hypothesis: Meaning, Types, Levels of Significance, Degrees of Freedom and Errors	
3.4	Statistical Techniques for Hypothesis Testing	
UNIT IV	Digital Data Analysis and Research Report Writing	9
4.1	Techniques of Spatial and Non-spatial data Analysis in GIS Softwares (Q-GIS)	
4.2	Techniques of Data Analysis in Satellite Image Processing Softwares (SAGA)	
4.3	Basics of Research Report Writing: Layout, Structure, Language, Bibliography, References and Footnotes	
4.4	Ethics in Research: Plagiarism	
UNIT V	Preparation of Research Report	9
5.1	Research Report on any One Theme in Physical Geography or Human Geography	

No. of Questions	University of Mumbai Revised Syllabus w.e.f. Academic Year: 2018-19 (CBSCS) T.Y.B.A. / T.Y.B.Sc. Geography, Semester – VI Paper – IX : RESEARCH METHODOLOGY IN GEOGRAPHY Course Code: Marking Scheme	Marks
Q.1	Unit - I	18
Q.2	Unit - II	18
Q.3	Unit - III	18
Q.4	Unit - IV	18
Q.5	Unit – V (Research Report)	18
Q.6	Journal and Viva	10
Total Marks		100

References:

1. K.L. Narasimha Murthy (2014): Research Methodology in Geography(A Text Book), Concept Publishing company Pvt Ltd, New Delhi
2. H. N. Misra, Vijai P. Singh(2002): Research Methodology in Geography – Social, Spatial and Policy Dimensions, Rawat Publications, Jaipur and New Delhi
3. Kothari C. R. (2004) : Research Methodology - Methods and Techniques, New Age International Publishers
4. Y.K.Singh, Dr. R.B. Bajpai(2008): Research Methodology-Techniques and Trends, A P H Publishing Corpn, New Delhi
5. R. Cauvery, U.k. Sudha Nayak (2003): Research Methodology, S.Chand & Company Ltd., New Delhi
6. O. R. Krishnaswami, M. Ranganatham (2005): Methodology of Research in Social Sciences, Himalaya Publishing House, Mumbai
7. IndiaTutorials from the - <http://dst-iget.in/tutorials>
8. bhuvan.nrsc.gov.in
9. <https://www.utwente.nl>
10. Abdel Baset I. M. Hasouneh (2003): Research Methodology, Sublime Publications, Jaipur,
11. Best J. W. and Khan J. V. (1998) : Research in Education, Allyn and Bacon, USA
12. Bhatta Basudeb (2016): Remote Sensing and GIS, Oxford University Press, New Delhi, India
13. Husain Majid (2001): Evolution of Geographical Thought, Rawat Publications, Jaipur, India
14. Dickinson G.C. (1977): Statistical Mapping and Presentation of Statistics, Edward Arnold Ltd., London
15. George Joseph (2003): Fundamental of Remote Sensing, Universities Press, Hyderabad
16. Karlekar S. and Kale M. (2005): Statistical Analysis of Geographical Data, Diamond Publication
17. Robinson A.H. (1985): Elements of Cartography, Vol.VI, John Wiley and Sons, New York
18. Saha P. and Basu P. (2013) : Advanced Practical Geography, Books and Allied (P) Ltd., Kolkata, India
19. Sarkar A. (2016) : Practical Geography - A Systematic Approach, Orient Blackswan Pvt. Ltd., New Delhi, India
20. Sarkar A. (2013) : Quantitative Geography – Techniques and Presentations, Orient Blackswan Pvt. Ltd., New Delhi, India

21. Taylor P.J. (1977): Quantitative Methods in Geography, Houghton Mifflin Company, Boston
University Press, McGraw Hill, New York