

VIDYASAGAR UNIVERSITY



Curriculum for 3-Year BSc (HONOURS) in Geography

Under Choice Based Credit System (CBCS)
w.e.f 2017-2018

CURRICULUM FOR 3-YEAR B. SC. (HONOURS) IN GEOGRAPHY UNDER CHOICE BASED CREDIT SYSTEM (CBCS)

Year	Semester	Course Type	Project
1st	1st	CC – 2 T & P	Cartographic Techniques.
	2nd	CC – 4 T & P	Cartograms and Thematic Mapping.
2nd	3rd	CC – 6 T & P	Statistical Methods in Geography.
	4th	CC – 10 T & P	Environmental Geography.
3rd	5th	CC – 11 T & P	Field Work and Research Methodology.
		CC – 12 T & P	Remote Sensing and GIS.
	6th	CC – 14 T & P	Disaster Management based Project Work.

C2P : Cartographic Techniques Lab

Credits 02

A Project File, comprising one exercise each is to be submitted

1. Graphical construction of scales: Plain, comparative, diagonal and vernier
2. Construction of projections: Polar Zenithal Stereographic, Simple conic with two standard parallels, Bonne's, Cylindrical Equal Area, and Mercator's.
3. Delineation of drainage basin from Survey of India topographical map. Construction and interpretation of relief profiles (superimposed, projected and composite), relative relief map, slope map (Wentworth), and stream ordering (Strahler) on a drainage basin.
4. Correlation between physical and cultural features from Survey of India topographical maps. using transect chart

C4 P: Cartography (Lab)

Credits 02

Cartography

A Project File, comprising one exercise each is to be submitted

1. Traverse survey using Prismatic Compass
2. Levelling by Dumpy Level and Prismatic Compass
3. Thematic maps: Proportional squares, pie diagrams with proportional circles, dots and spheres
4. Thematic maps: Choropleth, isoline map, chorochromatic map

C6 P – Statistical Methods in Geography**Credits 02**

A Project File, comprising one exercise each is to be submitted

1. Construction of data matrix with each row representing an aerial unit (districts / blocks / mouzas / towns) and corresponding columns of relevant attributes.
2. Based on the above, a frequency table, measures of central tendency and dispersion would be computed and interpreted.
3. Histograms and frequency curve would be prepared on the dataset.
4. From the data matrix a sample set (20%) would be drawn using, random, systematic and stratified methods of sampling and locate the samples on a map with a short note on methods used.
5. Based on of the sample set and using two relevant attributes, a scatter diagram and regression line would be plotted and residual from regression would be mapped with a short interpretation.

C10 : Environment Geography Lab**Credits 02****Environment Geography**

A Project File, comprising one exercise each is to be submitted

1. Preparation of questionnaire for perception survey on environmental problems
2. Preparation of check-list for Environmental Impact Assessment of an urban / industrial project
3. Quality assessment of soil using field kit: pH and NPK
4. Interpretation of air quality using CPCB / WBPCB data

C11P: Research Methodology and Field Work Lab**Credits 02****Practical Record**

1. Each student will prepare an individual report based on primary data collected form field survey and secondary data collected from different sources for either a rural area (*mouza*) or an urban area (municipal ward) based on cadastral or municipal maps to study specific problems.
2. The duration of the field work shall not exceed 10 days
3. The report should be hand written in English on A4 size paper in candidate's own words within 5,000 to 8,000 words excluding figures , tables , photographs , maps , references and appendices
4. A copy of the bound report, duly signed by the concerned teacher, should be submitted

C12 P: Remote Sensing and GIS Lab

Credits 02

Remote Sensing and GIS

2 Credits

A Project File, comprising one exercise each is to be submitted

1. Georeferencing of maps and images
2. Image enhancement. Preparation of reflectance libraries of LULC features across different image bands of IRS L3 or Landsat OLI data
3. Image classification, post-classification analysis and class editing
4. Digitisation of features. Data attachment, overlay and preparation of thematic map

C14P: Disaster Management based Project Work

Credits 02

Disaster Management based Project Work

2 Credits

An individual Project Report based on any one case study among the following disasters incorporating a preparedness plan in the vicinity of the candidate's institution or residence:

1. Thunderstorm
2. Landslide
3. Flood
4. Coastal / riverbank erosion
5. Fire
6. Industrial accident
7. Structural collapse

VIDYASAGAR UNIVERSITY



**Curriculum for 3-Year BSc (General)
in**

Geography

**Under Choice Based Credit System (CBCS)
[w.e.f 2018-2019]**

CURRICULUM FOR 3-YEAR B. SC. (GENERAL) IN GEOGRAPHY UNDER CHOICE BASED CREDIT SYSTEM (CBCS)

Year	Semester	Course Type	Project
2nd	3rd	DSC1DP	Cartographic Techniques (Lab)
3rd	5th	SEC – 3 (Skill Enhancement Course)	Remote Sensing and GPS based Project Report

DSC1DP: Cartographic Techniques (Lab)

Credits 02

List of Practical

A Project File, comprising one exercise each is to be submitted

1. Graphical construction of scales: Plain, comparative
2. Construction of projections: Polar Zenithal Stereographic, Simple conic with one standard parallel and Cylindrical Equal Area
3. Preparation of land use maps by open and closed traverse; computations of compass traverse- Included Angle, Area of traverse
4. Leveling by Dumpy Level: Profile

B. Field Report

Report should be written with the following Tentative Chapter Schemes:

Preface & Acknowledgement

Introduction: Objective, Extent and Space Relations, Data sources and Methodology

Physical Environment: Lithology, Drainage, Slope, Climate, Soil, Vegetation etc.

Socio Economic Environment: Population Characteristics, Occupational Structure, Ethnic and Religions Composition, Per- Capita income, any other aspects.

Problems and Prospects, Bibliography if any

Appendix: Survey Questionnaire(s), Additional Tables, if any

Word Limit: 3000 (Excluding Tables and Appendix).

A copy of the bound report, duly signed by the concerned teacher, should be Submitted.

SEC3P: Practical

Credit 01

1. Interpretation and Application of Remote Sensing: Land use/ Land Cover.
2. Global Positioning System (GPS) – Principles and Uses

Note: A project file consisting of five exercises will be done from aerial photos, satellite images (scale, orientation and interpretation) and GPS field survey.

VIDYASAGAR UNIVERSITY



Curriculum for 3-Year B. A (HONOURS)
in
Bengali

Under Choice Based Credit System (CBCS)
w.e.f 2018-2019

Year	Semester	Course Type	Course Code	Course Title	Credit	L-T-P	Marks		
							CA	ESE	TOTAL
Semester-III									
2	III	Core-5		CT5: উনিশ-বিশ শতকের প্রবন্ধ ও কাব্য-সাহিত্যের ইতিহাস এবং আখ্যান সাহিত্য পাঠ	6	5-1-0	15	60	75
		Core-6		CT6: ছন্দ-অলংকার ও নির্বাচিত কবিতা পাঠ	6	5-1-0	15	60	75
		Core-7		CT7: প্রবন্ধ সাহিত্য পাঠ	6	5-1-0	15	60	75
		GE-3		TBD	6	5-10/ 4-0-4	15	60	75
		SEC-1		SEC-1: বাংলা ব্যাকরণ ও অনুবাদতত্ত্ব Or লিখন দক্ষতা বৃদ্ধি	2	1-1-0	10	40	50
Semester – III : total					26				350
Semester-IV									
	IV	Core-8		CT8: উনিশ ও বিশ শতকের নাট্য ও কথাসাহিত্যের ইতিহাস এবং ছোটগল্প পাঠ	6	5-1-0	15	60	75
		Core-9		CT9: কাব্যপাঠ	6	5-1-0	15	60	75
		Core-10		CT10: উপন্যাস পাঠ	6	5-1-0	15	60	75
		GE-4		TBD	6	5-1-0/ 4-0-4	15	60	75
		SEC-2		SEC-2: বাংলা ভাষা ও সাহিত্য বিষয়ক প্রকল্প রচনা ও প্রকল্পের উপস্থাপনা Or চিত্রনাট্য রচনা ও সাম্প্রতিক ঘটনা-বিশ্লেষণ	2	1-1-0	10	40	50
Semester – IV : total					26				350

অথবা

SEC-1: লিখন-দক্ষতা বৃদ্ধি

Credits 02

SEC1T: লিখন-দক্ষতা বৃদ্ধি

Course Contents:

- ক. অফিসিয়াল পত্রলিখন, সংবাদপত্রে প্রতিবেদন, ভাবার্থ ও ভাবসম্প্রসারণ, সরকারী কাজের রিপোর্ট লিখন, বিজ্ঞাপনের খসড়া রচনা, বানানবিধি, প্রুফ সংশোধন
- খ. বাংলা ভাষার কাজে কম্পিউটার শিক্ষা

Suggested Readings:

১. লেখক ও সম্পাদকের অভিধান – সুভাষ ভট্টাচার্য
২. **Basic Computer Course Made Simple – Satish Jain**
৩. বাংলা বানান চিন্তা – মিতালি ভট্টাচার্য

SEC-2: বাংলা ভাষা ও সাহিত্য বিষয়ক প্রকল্প রচনা ও প্রকল্পপত্র উপস্থাপনা

Credits 02

SEC2T: বাংলা ভাষা ও সাহিত্য বিষয়ক প্রকল্প রচনা ও প্রকল্পপত্র উপস্থাপনা

Course Contents:

- ক. প্রকল্প রচনা (Project Writing)
- খ. প্রকল্পপত্র উপস্থাপনা (Paper presentation)

অথবা

SEC-2: চিত্রনাট্য রচনা ও সাম্প্রতিক ঘটনা বিশ্লেষণ

Credits 02

SEC2T: চিত্রনাট্য রচনা ও সাম্প্রতিক ঘটনা বিশ্লেষণ

Course Contents:

- ক. চিত্রনাট্য লিখন (Script-Writing)
- খ. সাম্প্রতিক ঘটনা বিশ্লেষণ

Suggested Readings:

১. চলচ্চিত্রের অভিধান – ধীমান দাশগুপ্ত
২. সিনেমার অ আ ক খ - ধীমান দাশগুপ্ত
৩. বিষয় চলচ্চিত্র – সত্যজিৎ রায়
৪. বই নয়, ছবি – চিদানন্দ দাশগুপ্ত

Vidyasagar University

Curriculum for B.A (General) in Bengali [Choice Based Credit System]

Semester-VI

Course	Course Code	Name of the Subjects	Course Type/ Nature	Teaching Scheme in hour per week			Credit	Marks
				L	T	P		
DSE-1B	TBD	Any one from Discipline-1(Bengali) DSE-1BF: উপন্যাস ও দেউগল্প Or প্রবন্ধ ও ভ্রমণকাহিনি	Core Course	5	1	0	6	75
DSE-2B		Other Discipline (Any one from Discipline-2)/TBD	Core Course	5	1	0	6	75
GE-2		GE-2I: একাল নাটক ও গোয়েন্দা কাহিনি Or প্রবন্ধ ও সাহিত্যের রূপরীতি-বিচার পদ্ধতি	Generic Elective	5	1	0	6	75
SEC-4		SEC-4I: বিষয় ভিত্তিক আলোচনা ও আলোচনাপত্র উৎসাহপত্র	Skill Enhancement Course	1	1	0	2	50
Semester Total							20	275

L=Lecture, T= Tutorial, P=Practical, DSE= Discipline Specific Electives, GE= Generic Elective, SEC= Skill Enhancement Course, TBD = To be decided.

Course contents:

প্রবন্ধ ও ভ্রমণকাহিনি

ক. চাচাকাহিনি (নির্বাচিত)- মৈয়দ মুক্তাবা আলী
খ. পালান্দো - সখীন্দ্র চট্টোপাধ্যায়

Suggested Readings:

১. বাংলা ভ্রমণ সাহিত্যে মুক্তচিত্তা - পার্থ চট্টোপাধ্যায়
২. মুক্তাবা আলী জীবন ও সাহিত্য - স্বামী ভট্টাচার্য
৩. মজনিদী মুক্তাবা - কোরক পত্রিকা

Skill Enhancement Course (SEC)

SEC-4: বিষয় ভিত্তিক আলোচনা ও আলোচনাপত্র উপস্থাপন

Credits 02

SEC-4I: বিষয় ভিত্তিক আলোচনা ও আলোচনাপত্র উপস্থাপন

Course contents:

বিষয় ভিত্তিক আলোচনা ও আলোচনাপত্র উপস্থাপন

ক. প্রকল্প পত্ররচনা (Project writing)

খ. উপস্থাপনা (Paper Presentation)

Generic Electives (GE)

GE-2: একাঙ্ক নাটক ও গোয়েন্দা কাহিনি

Credits 06

GE2T: একাঙ্ক নাটক ও গোয়েন্দা কাহিনি

Course contents:



VIDYASAGAR UNIVERSITY

Office of the Secretary, Council for Undergraduate Studies
Midnapore - 721102, Paschim Medinipur, West Bengal.

Ref. No. VU/UG/1071/2022

Dated: 27.04.2022

To
The Principal/TIC/OIC(s)
All affiliated General Degree Colleges
Vidyasagar University

Amendments in the syllabus of Bengali (Hons. & General)

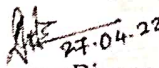
Sir / Madam,

This is to inform you that minor amendments in the undergraduate syllabus of Bengali (Hons. & General) have been made as per the recommendations of the Board of Studies in Bengali, VU. The specific details are mentioned below:

1. In Bengali (Hons.) Semester -IV SEC-2 - বাংলা ভাষা ও সাহিত্য বিষয়ক প্রকল্প রচনা ও প্রকল্প পত্র উপস্থাপনা) ক) প্রকল্প রচনা খ) প্রকল্প পত্র উপস্থাপনা
- Practical examination is to be taken instead of theory examination
2. In Bengali (Gen) Semester -VI SEC-4 - বিষয় ভিত্তিক আলোচনা ও আলোচনাপত্র উপস্থাপন - ক) প্রকল্প পত্র রচনা খ) উপস্থাপনা -
- Practical examination is to be taken instead of theory examination
3. In Bengali (Hons.) Semester -V CC-11T - খ) 'সাজাহান' -দ্বিজেন্দ্র লাল রায়
- to be replaced by চন্দ্রগুপ্ত -দ্বিজেন্দ্রলাল রায় X X

You are requested to circulate the amended syllabus to the persons concerned at the earliest.

Thanking you with regards.


27.04.22
Deb Kumar Biswas
Secretary,
Council for Under Graduate Studies
Secretary
U. G. Council
VIDYASAGAR UNIVERSITY
Copy forwarded to:

1. The Controller of Examination, VU
2. The Principal/TIC/OIC(s) of all affiliated College, VU

Phone : 03222-276554/276555/276557/276558 : Extn : 260
website: <http://vidyasagar.ac.in>



VIDYASAGAR UNIVERSITY

Office of the Secretary, Council for Undergraduate Studies
Midnapore - 721102, Paschim Medinipur, West Bengal.

Ref. No. VU/UG/1080/2022

Dated: 01.06.2022

To
The Principal/TIC/OIC(s)
All affiliated General Degree Colleges
Vidyasagar University

Guideline for examination of 'Project' paper

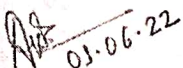
Sir / Madam,

You are hereby requested to follow the below guideline in relation to the examination/assessment of 'Project' papers of the Undergraduate curriculums.

1. Topic/ Title of the project and the field of study/work shall be decided by the respective Colleges
2. The examination / assessment of the project paper shall be conducted by the College as per the following marks distribution.
Dissertation - 40 marks
Viva-Voce - 20 marks

You are requested to circulate the guideline to the persons concerned at the earliest.

Thanking you with regards.


Secretary,
Council for Under Graduate Studies

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Office of the Secretary, Council for Undergraduate Studies
Midnapore - 721102, Paschim Medinipur, West Bengal.

Ref. No. VU/UG/1080/2022

Dated: 01.06.2022

To
The Principal/TIC/OIC(s)
All affiliated General Degree Colleges
Vidyasagar University

Guideline for examination of 'Project' paper

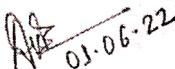
Sir / Madam,

You are hereby requested to follow the below guideline in relation to the examination/assessment of 'Project' papers of the Undergraduate curriculums.

1. Topic/ Title of the project and the field of study/work shall be decided by the respective Colleges
2. The examination / assessment of the project paper shall be conducted by the College as per the following marks distribution.
Dissertation - 40 marks
Viva-Voce - 20 marks

You are requested to circulate the guideline to the persons concerned at the earliest.

Thanking you with regards.


Secretary,
Council for Under Graduate Studies

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VIDYASAGAR UNIVERSITY

Office of the Secretary, Council for Undergraduate Studies
Midnapore - 721102, Paschim Medinipur, West Bengal.

Ref. No. VU/UG/1082/2022

Dated: 10.06.2022

To
The Principal/TIC/OIC(s)
All affiliated General Degree Colleges
Vidyasagar University

Addendum reg. amendments in the syllabus of Bengali (Hons. & General)

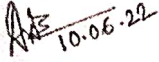
Sir / Madam,

In continuation to the letter vide ref. no. VU/UG/1071/2022 dated 27.04.2022 regarding the captioned matter, this to specify that the following papers are to be considered as the 'Project'.

1. Bengali (Hons.) Semester -IV SEC-2 - বাংলা ভাষা ও সাহিত্য বিষয়ক প্রকল্প রচনা ও প্রকল্প পত্র উপস্থাপনা) ক) প্রকল্প রচনা খ) প্রকল্প পত্র উপস্থাপনা
2. Bengali (Hons.) Semester -IV SEC-2 - চিত্রনাট্য রচনা ও সাম্প্রতিক ঘটনা বিশ্লেষণ
- Examination/ assessment of the said shall be conducted by the Colleges as per the guideline issued for Project.

You are requested to circulate the notice to the persons concerned at the earliest.

Thanking you with regards.


Secretary,
Council for Under Graduate Studies
Secretary
U. G. Council
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website: <http://vidyasagar.ac.in>

Vidyasagar University

Ability Enhancement Compulsory Course (AECC – Environmental Studies)

Environmental Studies

Credits: 4

Unit 1: Introduction to environmental studies

- Multidisciplinary nature of environmental studies;
- Scope and importance; Concept of sustainability and sustainable development.

(2 lectures)

Unit 2: Ecosystems

- What is an ecosystem? Structure and function of ecosystem; Energy flow in an ecosystem: food chains, food webs and ecological succession. Case studies of the following ecosystems:
 - a) Forest ecosystem
 - b) Grassland ecosystem
 - c) Desert ecosystem
 - d) Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

(6 lectures)

Unit 3: Natural Resources: Renewable and Non-renewable Resources

- Land resources and land use change; Land degradation, soil erosion and desertification.
- Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations. Joint forest management.
- Water: Use and over-exploitation of surface and ground water, floods, droughts, conflicts over water (international & inter-state).
- Energy resources: Renewable and non renewable energy sources, use of alternate energy sources, growing energy needs, case studies.

(8 lectures)

Unit 4: Biodiversity and Conservation

- Levels of biological diversity : genetic, species and ecosystem diversity; Biogeographic zones of India; Biodiversity patterns and global biodiversity hot spots
- India as a mega-biodiversity nation; Endangered and endemic species of India
- Threats to biodiversity: Habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions; Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.
- Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and Informational value.

(8 lectures)

Unit 5: Environmental Pollution

- Environmental pollution : types, causes, effects and controls; Air, water, soil and noise pollution
- Nuclear hazards and human health risks
- Solid waste management: Control measures of urban and industrial waste.
- Pollution case studies.
- Noise pollution.

(8 lectures)

Unit 6: Environmental Policies & Practices

- Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture
- Environment Laws: Environment Protection Act; Air (Prevention & Control of Pollution) Act; Water (Prevention and control of Pollution) Act; Wildlife Protection Act; Forest Conservation Act. International agreements: Montreal and Kyoto protocols and Convention on Biological Diversity (CBD).
- Nature reserves, tribal populations and rights, and human wildlife conflicts in Indian context.
- Environmental policy and gender issues.

(7 lectures)

Unit 7: Human Communities and the Environment

- Human population growth: Impacts on environment, human health and welfare.
- Resettlement and rehabilitation of project affected persons; case studies.
- Disaster management: floods, earthquake, cyclones and landslides.
- Environmental movements: Chipko, Silent valley, Bishnois of Rajasthan.
- Environmental ethics: Role of Indian and other religions and cultures in environmental conservation.
- Environmental communication and public awareness, case studies (e.g., CNG vehicles in Delhi).

(6 lectures)

Unit 8: Field work

- Visit to an area to document environmental assets: river/ forest/ flora/fauna, etc.
- Visit to a local polluted site---Urban/Rural/Industrial/Agricultural.
- Study of common plants, insects, birds and basic principles of identification.
- Study of simple ecosystems---pond, river, Delhi Ridge, etc.
- Disaster management.
- Coastal ecosystem.

(Equal to 5 lectures)

Suggested Readings:

1. Carson, R. 2002. *Silent Spring*. Houghton Mifflin Harcourt.
2. Gadgil, M., & Guha, R. 1993. *This Fissured Land: An Ecological History of India*. Univ. of California Press.
3. Gleeson, B. and Low, N. (eds.) 1999. *Global Ethics and Environment*, London, Routledge.
4. Gleick, P. H. 1993. *Water in Crisis*. Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute, Oxford Univ. Press.
5. Groom, Martha J., Gary K. Meffe, and Carl Ronald Carroll. *Principles of Conservation Biology*. Sunderland: Sinauer Associates, 2006.
6. Grumbine, R. Edward, and Pandit, M.K. 2013. Threats from India's Himalaya dams. *Science*, 339: 36--37.
7. McCully, P. 1996. *Rivers no more: the environmental effects of dams* (pp. 29--64). Zed Books.
8. McNeill, John R. 2000. *Something New Under the Sun: An Environmental History of the Twentieth Century*.
9. Odum, E.P., Odum, H.T. & Andrews, J. 1971. *Fundamentals of Ecology*. Philadelphia: Saunders.
10. Pepper, I.L., Gerba, C.P. & Brusseau, M.L. 2011. *Environmental and Pollution Science*. Academic Press.

11. Rao, M.N. & Datta, A.K. 1987. *Waste Water Treatment*. Oxford and IBH Publishing Co. Pvt. Ltd.
12. Raven, P.H., Hassenzahl, D.M. & Berg, L.R. 2012. *Environment*. 8th edition. John Wiley & Sons.
13. Rosencranz, A., Divan, S., & Noble, M. L. 2001. *Environmental law and policy in India. Tripathi 1992*.
14. Sengupta, R. 2003. *Ecology and economics: An approach to sustainable development*. OUP.
15. Singh, J.S., Singh, S.P. and Gupta, S.R. 2014. *Ecology, Environmental Science and Conservation*. S. Chand Publishing, New Delhi.
16. Sodhi, N.S., Gibson, L. & Raven, P.H. (eds). 2013. *Conservation Biology: Voices from the Tropics*. John Wiley & Sons.
17. Thapar, V. 1998. *Land of the Tiger: A Natural History of the Indian Subcontinent*.
18. Warren, C. E. 1971. *Biology and Water Pollution Control*. WB Saunders.
19. Wilson, E. O. 2006. *The Creation: An appeal to save life on earth*. New York: Norton.
20. World Commission on Environment and Development. 1987. *Our Common Future*. Oxford University Press.