

M.A./M.Sc. Geography
Third Semester
Paper – VI (P)(43365 B) Geographical Model Making

UNIT – I	(20)
a) Concept and history of model making	(5)
b) Definition of topographic model	(5)
c) Importance of geographical relief model	(5)
d) Relation of relief models with block diagrams	(5)
Unit – II	(20)
a) Importance of relief models in various methods of representation of relief	(5)
b) Methods of model making: peg method, contour layer method, positive and negative method	(5)
c) Uses of profiles in making models	(5)
d) Engraving technique in model making	(5)
Unit – III	(20)
a) Media of model making: permanent and temporary (Sand, sawdust, pappier machie (pulp), plaster-of-Paris, plastic sheets, wax, hardboard etc.)	(5)
b) Everlasting media cement concrete, metal and acrylic transparent sheets, etc	(5)
c) Casting of relief models	(5)
d) Mould making techniques and media	(5)
Unit –IV	(20)
a) Role of drawing and carpentry tools in the preparation of models	(5)
b) Importance of scales in the preparation of models: horizontal scale, vertical scales and exaggeration of vertical scales	(5)
c) Types of relief /geographical models	(5)
d) Special tools of model making	(5)
Unit – V	(20)
a) Model making: A special branch of Geographical Information System and Visual Information System	(5)
b) Knowledge of stages/steps of plastic raised relief Models	(5)
c) Study and interpretation of digital elevation/ terrain models and their uses	(5)
d) Different stages of completion coloring and annotation	(5)
<u>Workshop practice/lab work/session work</u>	

Preparation of 10 jobs of relief features with the help of toposheet, aerial photographs and satellite imagery including one composite relief model (group work)

Reference:

1. Allpress, J.D., Visual geography, Part-I [George Harrap]
2. Lobeck, A.K., Block Diagrams [John Wiley]
3. Lobeck, A.K. and Tellington, W.J., Military Maps and Air-Photographs [Mc Graw Hill]
4. Monkhouse, F.J. and Wilkinson, H.R., Maps and Diagrams [Methuen]
5. Raisz, E., Principles of Cartography [Mc Graw hill]
6. Robinson, A.H., Elements of Cartography [John Wiley]
7. Stamp. L.D., Models
8. Sylvester, D., Maps and Landscape [George Philip and sons]
9. Rub, M.K., Casthkala Parichaya [Kitab Mahal]
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11. Bharadwaj, D. C., Pratiroop Nirman [Raj. Hindi Granth Academy, Jaipur]
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