



# AMITY UNIVERSITY

— UTAR PRADESH —

**Course Title: BARRIER FREE ARCHITECTURE**  
**Course Code: ARCH531**  
**Credit Units: 3**  
**Level: UG**

L	T	P/S	SW/FW	TOTAL CREDIT UNITS
3	-	-	-	3

#	Course Title	Weightage (%)
	<b>BARRIER FREE ARCHITECTURE</b>	
1	<b>Course Objectives:</b> <ul style="list-style-type: none"> <li>• The subject looks at barrier free design principles and concepts of universal design</li> <li>• Barrier free design principles in urban design</li> <li>• Provides an idea about barrier free construction principles in buildings</li> </ul>	
2	<b>Prerequisites:</b> NIL	
3	<b>Student Learning Outcomes:</b> Learning the principles of barrier free design. Understanding of the key aspects and systems of barrier free and disabled friendly built space in architecture.	
<b>Course Contents / Syllabus:</b>		
4	<b>Module I: Introduction to Barrier Free Architecture</b>	<b>30</b>
	Defining the basic concepts of barrier free design, need for barrier free concepts in architecture, concepts of universal design and types of disabilities. Design principles for barrier free architecture and accessibility for all.	
5	<b>Module II: Barrier free elements in Interiors and Urban Design</b>	<b>40</b>
	Design elements outside the building like curb ramps, pedestrian crossing, public toilets, and parking, signages, flooring	

	and street furniture. Case examples of Barrier free architecture in India and across the globe. To study the anthropometrics and dimensions of mobility devices, special fixtures for barrier free design. Barrier free construction materials and dimensions for flooring, walls, doors, windows, staircases, elevators, toilets, entrances and corridors.																																	
<b>6</b>	<b>Module III: Case Study, Presentation &amp; Design elements</b>	<b>30</b>																																
	Barrier free architecture in Public Buildings – dimensions and standards. Case Study of Barrier free elements in Public buildings, Photographic documentation and Presentation. Incorporation of barrier free elements in project being pursued in architectural design.																																	
<b>7</b>	<b>Pedagogy for Course Delivery:</b> The course will delivered through lectures, Presentation and Case Studies.																																	
<b>8</b>	<p><b>Assessment/ Examination Scheme:</b></p> <table border="1"> <thead> <tr> <th>Theory (%)</th> <th>Lab/ Practical/ Studio (%)</th> <th colspan="6">End Term Examination</th> </tr> </thead> <tbody> <tr> <td>Nil</td> <td>100</td> <td colspan="6">100%</td> </tr> <tr> <th>Components (Drop down)</th> <td></td> <th>A</th> <th>C</th> <th>P</th> <th>CT</th> <th>H</th> <th>Viva</th> </tr> <tr> <th>Weightage (%)</th> <td></td> <td>05</td> <td>05</td> <td>10</td> <td>10</td> <td>20</td> <td>50</td> </tr> </tbody> </table>	Theory (%)	Lab/ Practical/ Studio (%)	End Term Examination						Nil	100	100%						Components (Drop down)		A	C	P	CT	H	Viva	Weightage (%)		05	05	10	10	20	50	
Theory (%)	Lab/ Practical/ Studio (%)	End Term Examination																																
Nil	100	100%																																
Components (Drop down)		A	C	P	CT	H	Viva																											
Weightage (%)		05	05	10	10	20	50																											

**Text & References:**

- Guidelines and Space Standards for Barrier Free Built Environment for Disabled and Elderly Persons – Central Public Works Department, Ministry of Urban Affairs & Employment, India, 1998
- IS – 4963 (1987), Recommendations for buildings and facilities for Physically Handicapped
- Barrier-Free Design: Principles Planning, Examples, by Oliver Heiss, Christine Degenhardt, Johann Ebe (Birkhauser Architecture, 2010)