**University of Management and Technology**

**School of Architecture & Planning**

**Department of Architecture**

Course code **AR-604** Course title: **contemporary architecture**

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| Program | **M-Arch** |
| Credit Hours | **3+0**  |
| Duration | **One semester( 16 weeks)** |
| Prerequisites | **Nill** |
| Resource Person | **AS PER TIMETABLE** |
| Counseling Timing(Room# ) | **Kindly see office window** |
| Contact | **-** |

**Chairman/Director signature………………………………….**

**Dean’s signature…………………………… Date………………………………………….**

**Learning Objective:**

The course will look at key shifts in architectural thought and debates over the last four decades. The approach of the course will be to address current day problems, projecting back into the past in order to offer something of a historical "frame" to understand the present. The course begins by looking at four or five issues in architecture understood to be critical for present times: globalization, technology, cognitive sciences, the environment, and cultural politics.

**Learning Methodology:**

Lectures as provided in the schedule of the semester activities

Study of Archival Material and recommended books

Guest Lectures as per requirement

Presentation on allocated topics

**Grade Evaluation Criteria**

Following is the criteria for the distribution of marks to evaluate final grade in a semester.

**Marks Evaluation Marks in percentage**

Quizzes / Presentations 10

Assignments 15

Mid Term 25

Final exam 50

Total 100

**Recommended Text Books:**

* Gopius, Walter.(1965) The New Architecture and the Bauhaus. The MIT Press.
* Banham, Reyner. (1980) Theory and Design in the first machine age. The MIT Press.
* Appignanesi, Richard. (2003), Introducing Post Modernism. Icon Books
* Mumtaz, Kamil Khan.(1999). Modernity and Tradition: Contemporary Architecture in Pakistan
* Oxford University Press
* Shikoh, Murtuza & Mankani, Zain.(2016) Architecture After Independence: 55 Architects of Pakistan. Architectural Press .
* Khan, Ahmad Nabi Khan (1990). Islamic Architecture of Pakistan: An Analytical Exposition. Arab and Central Asian contribution. National Hijra Council.
* Shaikh, Khurshid Hasan (2015). Muslim Architecture in Pakistan: Aspects of Public Welfare. Oxford University Press Karachi
* Islamic Architecture from, Function and meaning, Hillenbrand, Robert.

**Reference Books:**

* Jencks, Charles. (1991) The Language of Post Modern Architecture, Wiley-Academy.
* Colquhoun, Alan. (2002) Modern Architecture, Oxford.
* Mumtaz, Kamil Khan.(1989) Architecture in Pakistan Architectural Press

**Calendar of Course contents to be covered during semester**

**Course code AR-604 Course title: contemporary architecture**

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| Week  | Course Outline  | Reference Chapter  |
| 1  | Introduction: Mechanization of Thinking? | - |
| 2 | Artificial intelligence and contemporary Japanese architecture – any relationship? | <https://doi.org/10.1080/17508975.2019.1577212> |
| 3 | Senses, experiences, emotions, memories: artificial intelligence as a design instead of for a design in contemporary Japan | <https://doi.org/10.1080/17508975.2020.1764327> |
| 4 | Anthropomorphizing artificial intelligence: towards a user-centered approach for addressing the challenges of over-automation and design understandability in smart homes | <https://doi.org/10.1080/17508975.2020.1795612> |
| 5 | Information, Communication, Feedback: The Festival Plaza (Japan World Exposition Osaka 1970), Center Pompidou and Sendai Mediatheque as Suggestive Examples of Artificially Intelligent Architecture | <https://doi.org/10.1080/13467581.2021.1883621> |
| 6 | Figuring-out the characteristics of artificially intelligent architecture by re-visitng the cybernetic projects of kenzo tange and arata isozaki from 1959 — 1972 | <https://doi.org/10.3130/aija.86.2358> |
| 7 | Transformation from Energy to Information | Chapter 2, Machines Who Think, Pamela McCorduck |
| 8 | The Darthmouth Conference: The Information-Processing Models | Chapters 5 and 6, Machines Who Think, Pamela McCorduck |
| 9 | **Mid Term / Introduction to Term Paper** |
| 10 | Critique of Artificial Intelligence | Chapter 8, Machines Who Think, Pamela McCorduck |
| 11 | Robotics and General Intelligence: Interfaces to Applied AI | Chapters 10 and 12, Machines Who Think, Pamela McCorduck |
| 12 | Critical Reading: Novels based on Utopia, Robotics, Ethics of Artificial Life, etc. | - |
| 13 | Can Artificial Intelligence really be moral? Discussing the ethics of AI | Chapters 13 and 14, Machines Who Think, Pamela McCorduck |
| 14 | The Quarter-Century of AI: Evolution of Intelligences and its relationship to Contemporary Architectural Discourse | Part V, Machines Who Think, Pamela McCorduck |
| 15 | Critical Discussion: AI in the Newspapers | - |
| **16** | **Final Exam / Term Paper Submission** |