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Upcoming Research:

(Research Papers)

1. **Appraising Future City Planning & Urban Morphology of Secondary Cities in Sindh by Using Strategic Development Plans of Sindh Government.**
2. **Morphological Investigation of Secondary Cities in Sindh via Urban Information Technologies for Sustainable Urban Future**
3. **Investigating Artificial Intelligence and Machine Learning Technologies in Urban Morphological Analysis of Secondary Cities in Sindh.**

(Books)

1. **A Textbook of CIVIL – 104: Basic Civil Engineering Surveying**

Published Books:

1. Design and Development of **Practical Work Book in the subject of ‘AR-203: Urban Sociology’** for Second Year Urban Engineering published by Department of Civil Engineering, also administering Urban Engineering, NED University of Engineering & Technology, Karachi-75270, Pakistan, in the year 2003).
2. Design and Development of **Curriculum of Architecture at Bachelors and Masters level** through National Curriculum Revision Committee Meetings at Higher Education Commission Regional Center Karachi, Pakistan, in the years 2003 and 2006.
3. Design and Development of **Curriculum of City and Regional Planning at Bachelors and Masters level** through National Curriculum Revision Committee Meetings at Higher Education Commission Regional Center Karachi, Pakistan, in the years 2003 and 2006.
<https://hec.gov.pk/english/services/universities/RevisedCurricula/Documents/2005-2006/City%20Regional-2006.pdf>

Peer Reviewed Journals, Proceedings, Book Chapter:

1. **Addressing Climate Change Impacts on Urban Morphology of Secondary Cities in Sindh with Planning for Flood Management.** The International Conference (IFMCC 2023) on the Theme “Integrated Flood Management under Changing Climate Scenario” on March 1–3, 2023. Organized by “The US-Pakistan Center for Advanced Studies in Water (USPCAS-W) Mehran University of Engineering & Technology (MUET), Jamshoro, Sindh, Pakistan. In collaboration with, “Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences, China, Higher Education Commission (HEC), Pakistan. UNICEF, Pakistan, Medico International, Pakistan, HANDS, Pakistan, USAID, Pakistan. Center of Excellence in Water Resources Engineering, University of Engineering & Technology (UET), Lahore, University of Agriculture Faisalabad (UAF), Sindh Agriculture University (SAU), Tandojam, Global Change Impact Studies Centre (GCISC), National Disaster Management Authority (NDMA), Provincial Disaster Management Authority (PDMA) Sindh, Sindh Irrigation Department, Sindh Irrigation and Drainage Authority (SIDA), Pakistan Meteorological Department (PMD), Water and Power Development Authority of Pakistan (WAPDA)”
<https://water.mueta.edu.pk/three-days-international-conference-on-integrated-flood-management-under-changing-climate-scenario-ifmcc-2023-organised-by-the-uspcas-w-mehran-uet-jamshoro/>

- 2. Addressing Climate Change and Natural Gas Absences via Green Energy Solutions and Biomass Gasification Technology.** In “International Conference on Combating Natural Gas Shortages: Can Alternate Energy Provide an Efficient Solution and Relief to the Industry Gasping for Gas?” on February 11 – 12, 2023. Organized by Dawood University of Engineering & Technology, Karachi, Sindh, Pakistan.
- 3. Morphological Transformations and Strains on Urban Infrastructure within Secondary Cities of Sindh.** Paper presented at NATIONAL CONFERENCE On “The Changing Nature of Sindh Demography: Social & Physical Impacts” Organized by the Department of Architecture and Planning, Dawood University of Engineering & Technology, Karachi, Sindh, Pakistan on 16th November 2022.
- 4. Integrated Urban Morphology Approach to Investigate Urban Design of Qambar Sindh.** Paper published in the Quarterly ‘Mehran University Research Journal of Engineering & Technology’ Volume 41, No. 2, pp. 64-78, April 2022 Issue. Paper Received on: 20 October 2020, Accepted on: 05 May 2021, Published: 01 April 2022 [p-ISSN: 0254-7821, e-ISSN: 2413-7219] DOI: <https://doi.org/10.22581/muet1982.2202.0> Online Access: <https://publications.muet.edu.pk/index.php/muetri/article/view/2433/588>
- 5. Traffic Congestion Issues, Perceptions, Experience and Satisfaction of Car Drivers/Owners on Urban Roads.** Paper published in Mehran University Research Journal of Engineering and Technology, Volume 39, No. 3, pp. 489 – 505, July 2020 Issue. Paper Received on 06/02/2019, Accepted on 03/05/2019, p-ISSN: 0254-7821, e-ISSN: 2413-7219, DOI:10.22581/muet1982.2003.04 Online Access: <https://publications.muet.edu.pk/index.php/muetri/article/view/1691/433>
- 6. Rickshaw to Rapid Transit Railways: A Quest for Public Transport Policy in Karachi, Sindh, Pakistan.** Paper presented at International Peer Reviewed Conference i.e. Fifth International Conference on Infrastructure Engineering in Developing Countries (IEDC-2017) held on July 14–15, 2017 at Karachi, Sindh, Pakistan. Organized by NED University of Engineering & Technology in collaboration with The Institution of Engineers (IEP) Pakistan.
- 7. Technological Advancements and Smart Transportation Planning in Asian Megacities.** Paper presented at International Peer Reviewed Conference i.e., Eighth International Civil Engineering Congress (ICEC 2016) on the theme, “Ensuring Technological Advancements through Innovation Based Knowledge Corridor” held on December 23–24, 2016 at Karachi, Sindh, Pakistan. Jointly organized by The Institution of Engineers Pakistan and NED University of Engineering and Technology, in collaboration with, The Asian Civil Engineering Coordinating Council (ACECC), Federation of Engineering Institutions of Islamic Countries (FEIIC) and Federation of Engineering Institutions of South and Central Asia (FEISCA).
- 8. Solar Technology as Solution to Urban Energy Crisis in Pakistan.** Paper presented at International Peer Reviewed Conference i.e., Third Pakistan Urban Forum (PUF) with the theme “Reimagining Pakistan’s Cities for the 21st Century”, Lahore, Pakistan; December 04–08, 2015. Event organized by The Urban Unit; Planning and Development Department; Government of Punjab, Pakistan.
- 9. Teaching City Planning to Civil Engineering Students: A Quest for Appropriate Course Contents and Pedagogy.** A paper presented at International Peer Reviewed Conference i.e. FEIIC 1st International Young Engineers Convention (FEIIC IYEC-2014) <http://www.fiyec.org/> held on April 18-20, 2014 at University of Engineering and Technology (UET) Lahore. The event organized by National Textile University Faisalabad-37610, Pakistan in collaboration with Pakistan Engineering Council, Higher Education Commission, Pakistan, University of Engineering and Technology, Lahore, Pakistan, Marmara Üniversitesi Malaysia, Malaysian Society for Engineering and Technology, Malaysia and University of Bolton, United Kingdom. http://architctravi.blogspot.com/2014/06/teaching-city-planning-to-civil_13.html
- 10. A Quest for Identifying and Celebrating Iconic Architects belongs to Minority Communities of Pakistan.** A paper presented at IAPEx Building Material Exhibition and Conference on the theme, “Celebrating a Decade of IAPEx and Architectural Icons” held on 11th–13th April 2014 at Expo Center Karachi, Sindh Pakistan. The event organized by Institute of Architects Pakistan (Karachi Chapter).

11. Evaluating the Nature of Internal Migration and Physical Impact of Urbanisation in

Secondary Cities of Sindh. A paper presented at Seminar on Internal Migration and Urbanization: Challenges and Prospects for Population and Development in Sindh held on Wednesday, March 26, 2014 at Karachi Institute of Technology and Entrepreneurship (KITE), Karachi, Sindh Pakistan. Event organized jointly by Karachi Institute of Technology and Entrepreneurship (KITE), Karachi, Sindh Pakistan with Migration Research Group, Islamabad (Trust), The Directorate of Urban Policy & Strategic Planning, Government of Sindh, and with United Nations Population Fund (UNFPA).

12. Urban Economic Policy for Growth and Development of Secondary Cities in Pakistan.

Paper presented at International Peer Reviewed Conference i.e. Second Pakistan Urban Forum (PUF) / South Asian Cities Conference (SACC) 2014 Karachi, Pakistan; January 10-12, 2014. Event organized by The Urban Unit; Planning and Development Department; Government of Punjab, Pakistan; The Directorate of Urban Policy & Strategic Planning, Government of Sindh, Pakistan; Institute of Business Administration (IBA) Karachi, Sindh Pakistan; NED University of Engineering and Technology (NED-UET) Karachi, Sindh Pakistan and Mehran University of Engineering and Technology (MUET), Jamshoro, Sindh Pakistan.

13. Documentation and Recording of Forgotten Heritage: A Case Study of Historic Core of

Karachi. Paper presented at International Peer Reviewed Conference i.e. ICOMOS Thailand International Conference on Asian Forgotten Heritage, 15-16 October 2013 held at Chiang Mai Thailand.

14. Evaluating the Status of Urban Area Conservation and Designation of Historic Urban

Architecture and Heritage Buildings in Karachi. Paper presented at International Peer Reviewed Conference i.e. APSA 11th International Congress; September 19th – 21st, 2011 held at University of Tokyo, Tokyo, Japan. Event organized and proceedings published by Asian Planning Schools Association (APSA), The University of Tokyo, Japan.

15. Mega City Karachi with 18 Towns Waiting for Planning and Reform.

Paper presented at International Peer Reviewed Conference i.e. Pakistan Urban Forum 2011 (PUF), Managed Urbanisation: The Road to National Development, Lahore, Pakistan; March 01–05, 2011. Event organized by The Urban Unit; Planning and Development Department; Government of Punjab, Pakistan and sponsored by USAID (<http://www.usaid.gov/>), Association of Builders and Developers (ABAD) Pakistan (<http://www.abad.com.pk>) , WSP (<http://www.wsp.org/wsp/>), IPDF Pakistan (<http://ipdf.gov.pk/home/>), World Bank Group (<http://www.worldbank.org/>), Asian Development Bank (<http://www.adb.org/>), and PMDFC (<http://www.pmdfc.org.pk/>).

16. An Appraisal of Signal Free Corridor in Karachi via Empirical Study of Road Accidents and Pedestrian Movement Concerning Road Crossing.

International peer reviewed refereed paper presented and published in the proceedings of Third International Symposium on Infrastructure Engineering in Developing Countries (IEDC 2010) and First International Conference on Sustainable Transportation and Traffic Management (July 1-3, 2010) Organized by Department of Urban and Infrastructure Engineering (UIE), NED University of Engineering and Technology Karachi in collaboration with Higher Education Commission (HEC) Pakistan, US-AID and the Center for Advanced Infrastructure Technology, University of Mississippi (USA).

17. Economic Complexity and the Built Environment's Cost Webs after Globalisation: Recommendations for Promoting Affordability through Planning.

International peer reviewed refereed paper presented and published in the proceedings of 5th International Seminar on Urban and Regional Planning (May 08, 2010) organized by Department of Architecture and Planning (DAP), NED University of Engineering and Technology Karachi in collaboration with Higher Education Commission (HEC) Pakistan. <http://architectravi.blogspot.com/2011/11/economic-complexity-built-environments.html>

18. Environment versus Investment: An Evaluation of Emerging Urban Design Trends and Practices in Coastal Belt of Karachi, Pakistan.

International peer reviewed refereed paper presented in Third International Seminar on Urban and Regional Planning, September, 2007 at Department of Architecture and Planning NED University of Engineering and Technology, Karachi in collaboration with Higher Education Commission (HEC) Pakistan <http://architectravi.blogspot.com/2011/11/environment-vs-investment.html>

- 19. Emerging Paradigm in Urban Development and Design: A case study of Diamond Bar Island City project at Bundal (Bhoondar) and Buddo (Dhingi) Islands in Indus Delta of Sindh by the Initiative of Government of Pakistan.** International peer reviewed refereed paper presented at Asia Link-Urbs Conference held at Centre for Housing Planning and Building Battaramulla Colombo, Sri Lanka; 7th–9 th June 2007 organized by University of Moratuwa, (Sri Lanka) in collaboration with Katholieke Universiteit Leuven (Belgium), TU Eindhoven (The Netherlands), CEPT University (India) and NED University (Pakistan).
- 20. Destruction of Natural Resources As A Consequence Of Human Interference: Case of Fishermen Community Living Along Mangroves Forest at Kakapir Village, Novanall Island, Karachi.** International peer reviewed refereed paper published in the Research Journal Protibesh January 2007 issue by Department of Architecture, Bangladesh University of Engineering and Technology, Dhaka-1000, Bangladesh.
- 21. A Critical Evaluation of Urban Beach Development Plans and Projects by Formal Sector Institutions at Clifton Beach Karachi.** International peer reviewed refereed paper published in the Journal of Research in Architecture and Planning: Vol. 5, 2006-Urban Design: Case Based Theory and Practice; Pg. 115-130 by Department of Architecture and Planning, NED University of Engineering and Technology Karachi, Pakistan. <http://architectravi.blogspot.com/2011/11/critical-evaluation-of-urban-beach.html>
- 22. An Appraisal of Orangi Pilot Project Research and Training Institute (OPP-RTI).** International peer reviewed refereed paper presented at Asia Link – Asia Urbs Platform Event 1, 10th-11th January 2006, at Faculty of Architecture University of Moratuwa Sri Lanka, organized by University of Moratuwa, (Sri Lanka) in collaboration with Katholieke Universiteit Leuven (Belgium), TU Eindhoven (The Netherlands), CEPT University (India) and NED University (Pakistan).
- 23. Destruction of Natural Resources As A Consequence Of Human Interference: A Case Study of Fishermen Community Living Along Mangroves Forest at Kaka Pir Village, Novanall Island, Karachi.** International peer reviewed refereed paper presented and published in conference proceedings Refereed Conference on Environmental Horizons December 19-21, 2005 at University of Karachi.
- 24. Urban Design Intervention in an Intermediate City: Learning from Urban Design Study and Experiences of Mingora, Swat, NWFP, Pakistan** Paper presented in Second International Seminar on Urban and Regional Planning: Learning from Experience, August 20, 2005 at NED University of Engineering and Technology, Karachi. http://architectravi.blogspot.com/2011/11/urban-design-intervention-in_23.html

Articles in Newspapers and Professional Magazines

- 1. Defining and Interpreting Architecture and its Theory.** A paper published in ARCHITIMES February 2014, Vol. 30, No. 02, Pg.22, ISSN No. 2073-9001. Karachi, Sindh Pakistan.