

# OPEN LABORATORY

**DEPARTMENT OF ARCHITECTURE**  
FACULTY OF CIVIL ENGINEERING, PLANNING AND GEO-ENGINEERING

Architecture Master and Doctoral Programmes aims to improve knowledge and develop professional abilities in a broader spectrum linking to field of architecture.



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institut teknologi sepuluh nopember



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# LABORATORY OF ARCHITECTURAL THEORY, HISTORY AND CRITICISM





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**The laboratory develops critical capacities to examine questions of architectural production, representation and agency within theoretical, historical, and contemporary milieu.**

**It also engages critically with the history of buildings and architectural concepts, and with the past and present culture of architecture.**



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The main goal of this research cluster is to identify and use novel research methods in architectural history and theory to understand architecture through the studies of aesthetics, function, meaning, stylistics, tectonics, structure and construction. The emphasis is placed simultaneously on its critical and appreciation method as the substance, as well as its principles and method in architectural context.





# Member

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**Dr. Ir. Murni Rachmawati, M.T.**



**Nur Endah Nuffida, S.T., M.T.**



**Ir. Andy  
Mappajaya, M.T.**



**Drs. R.B. Gatot  
Soebroto, M.T.**



**Dr. Eng. Didit  
Novianto, S.T.,  
M.Eng.**



# Profile

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**Nur Endah Nuffida, S.T., M.T.**  
(Head of Laboratory)

Education: S1 (UB), S2 (ITS)

NIDN : 0012107602

E-mail : nuffida@arch.its.ac.id

Subjects : History; Theory; Criticism

## Research

1. Kajian Wujud Arsitektur pada Bangunan Tropis berdasarkan Konsep Adaptasi Organisme di Alam. 2015.

## Publication

1. Natural Conservation and Architecture; Case Study: The Architecture of Apartment in Surabaya. International Journal of Advanced Technology in Engineering and Science (IJATES). ISSN: 2348-7550, Vol.No.3, Issue 11 November 2015.
2. On Architecture and Energy: The Concept of (Generating) Form through Adaptation. Procedia-Social and Behavioral Sciences. Vol.179 (2015) p.154-164, Green Architecture for Sustainable Living and Environment.



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# Profile

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**Dr. Ir. Murni Rachmawati, M.T.**  
(Dean of FTSPK)

Education: S1-S3 (ITS)

NIDN : 0008066214

E-mail : [murnirach@arch.its.ac.id](mailto:murnirach@arch.its.ac.id)

Subjects : Theory; History; Criticism

## Research Fund

1. Kajian Fungsi Arsitektur yang Terintegrasi : Fungsi Pelestarian Lingkungan, Teknologi yang Ekologis dan Kemanusiaan pada Arsitektur Perumahan di Surabaya. Penelitian Unggulan Perguruan Tinggi, 2014-2015.
2. Konsep Pengembangan Terintegrasi Kawasan Wisata Dengan Pendekatan Sustainable Heritage Berbasis Budaya dan Regionalism. 2020.
3. Makna Hunian Domestik Menurut penyandang Disabilitas Wanita Netra. 2020.

## Publication

1. Architecture as Identification of Place: The Case of Joglo Kampung Ketandan, Surabaya. Journal of Architecture & Environment. Vol 18, No 2, 2019.
2. Arrangement of Public Open Space of Palu Riverbanks in Palu City Center Area with Waterfront Development Approach. International Journal of Engineering Research & Technology. Vol. 6 Issue 07, July 2017.
3. Vernacular architecture as an alternative design approach with interpretation of Paul Ricoeur's critical theory. ITU A|Z • Journal of The Faculty of Architecture. Vol 13 No 1 • March 2016.
4. The Genius Idea of using Local Material on Javanese House Architecture. Applied Mechanics And Materials. Vol 747, 2015.







# Profile

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## Drs. R.B. Gatot Soebroto, M.T.

Education: S1 (ITB), S2 (ITS)

NIDN : 0011066211

E-mail : subrotobambang11@yahoo.com

Subjects : Nusantara Architecture; Art; Ornament;  
History

## Research & Community

1. Desain Baru, Untuk Ibu-ibu Lansia Perajin Gerabah, Guna Perluasan Pasar, Kerajinan Gerabah Desa Selogabus, Parengan- Tuban. Pengabdian Masyarakat Tematik, 2021.
2. Pendampingan Arsitektural Pelaksanaan Pemugaran 9 Bangunan di Gang Kampung Kemasan, 2015.

## Publication

1. The Influence of Green House Concept on Consumer's Buying Interest and Green Concept Development in Housing Estate. International Journal of Education and Research. Vol. 3 No. 2 February 2015.
2. Arrangement and Improvement Guideliness of Coastal Settlement on the Effect of Spesific Weather in Kampung Tambak Deres, Kelurahan Kenjeran Surabaya. International Journal of Education and Research. Vol. 3 No. 10 October 2015.
3. BUSUR CETAK", Alat Pembuatan Pot Kembang dan Upaya Perbanyak Perajin Belia, Desa Selogabus Kec. Parengan, Tuban. Jurnal SEWAGATI. Vol 3 No. 1 2019.



# Profile

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## Ir. Andy Mappajaya, M.T.

Education: S1-S2 (ITS)

NIDN : 0008066214

E-mail : mappajaya@arch.its.ac.id

Subjects : Vernacular Architecture; Building Preservation; Community; Historical Building

## Research & Community

1. Pembuatan Konsep Desain dan Pra Rancangan Kawasan Wisata Sekawan Sejati. Pengabdian Masyarakat Berbasis Produk, 2021.
2. Implementasi Ruang Publik di Kawasan Gang Dolly Lokasi : Dolly Surabaya. Pengabdian Masyarakat Berbasis Produk, 2021.
3. Seminar Nasional Penelitian dan Pengabdian Kepada Masyarakat AvoER ke-8, Fakultas Teknik, Universitas Sriwijaya, Palembang (Potensi Kampung Ketandan sebagai Living Museum di Kota Surabaya). 19-20 Oktober 2016, Palembang.
4. Mayangkara, Rumah Indis Satu Garis 2018.
5. Pendokumentasian Potensi arsitektur di Pulau Bawean. Gresik 2016.



# Profile

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## Dr. Eng. Didit Novianto, S.T., M.Eng.

Education: S1 (ITB), S2-S3 (The Univ. of Kitakyushu)

NIDN : 0004038705

E-mail : didit.novianto@its.ac.id


Subjects : Sustainability Theory; Lifestyle; Architecture Style; Design & Research Method

## Research

1. Studi Tentang Respon Arsitektur dan Lifestyle Terhadap Pandemi: Refleksi Historis Dalam Menuju Era New Normal. Penelitian Keilmuan ITS, 2021.
2. Studi Tentang Perubahan Lifestyle Selama Wabah Covid-19 Melalui Data Mining Media Sosial Menuju Perencanaan Arsitektur/Kota Tahan Bencana Dan Pandemi. Penelitian Kerjasama antar Perguruan Tinggi, 2021.

## Publication

1. Statistical Evaluation on Neighborhood Facilities in Relation with Residential Satisfaction and Preference. American Journal of Environmental Science. 2016, 12 (3), pp.169-181. DOI:10.3844/ajessp.2016.169.181.
2. Relationships between Household Characteristics and Electricity end-use in Japanese Residential Apartments. Sustainable Cities and Society. 64/102534/2021 DOI:10.1016/j.scs.2020.102534.
3. Work from Home during COVID-19 and Its Impact to Occupants' Consumption and Behavior: A Survey. International Journal of Innovation for Sustainable Maritime Architecture Research and Technology. ISSN 2435-2284. 2021.
4. A Review of Architecture Response to the Pandemic towards New Normal Behavior. Journal of Asian Institute of Low Carbon Design. ISSN 2189-1400 pp. 13-18 / 2021.



Taking architecture in Indonesia as its primary focus, members work in interdisciplinary modes. We explore a range of topics relating to theoretical and philosophical knowledge in Nusantara Architecture, history of architecture, materials and its tectonics; aesthetics and the built environment; heritage and emergent conservation practices. We develop discursive fronts through a variety of media and scales. The cluster research encompasses scholarly, creative and advocacy activities. Output includes monographs, edited volumes, research papers, architectural reviews in professional journals, and conservation work, and policy-influencing advocacy work on heritage.

# Tri Dharma

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## Activities



**Research**



**Community  
Services**



**Education**



# Road Map

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**Research**



**Community  
Services**



**Education**



**ARCHITECTURE OF INDONESIA:  
IDENTITY AND TRANSFORMATION**

**MATERIAL  
AND TECHNOLOGY**

**CONSERVATION AND PRESERVATION**

**HISTORY, THEORY, PHILOSOPHY**

**GUIDELINES AND ASSISTANCE**

**DOCUMENTATION AND INVENTARITATION**

**BOOK AND MANUSCRIPTS**

**PUBLICATION AND DISSEMINATION**

**MODEL**

**PRINCIPLES, CONCEPT, METHOD**

**RESEARCH AND  
COMMUNITY  
SERVICES**

**NUSANTARA  
ARCHITECTURE**

**CRITICS AND  
APPRECIATION**

# Research Time Line (2019-2023) :

## Indonesia : Nusantara and Beyond, Coastal and Islands





**ROADMAP 5 YEARS**

**2019 -2023**

**ARCHITECTURE ETHNIC, CITY AND VILLAGE**

**HISTORY**

**THEORY**

**PHILOSOPHY**

2019  
2020  
2021  
2022  
2023

Documentation  
Inventaritationi  
Catalogisation  
Writing  
Publication

**ARCHITECTURE OF INDONESIA: IDENTITY AND TRANSFORMATION**



2023  
2022  
2021  
2020  
2019

Publication  
Writing  
Catalogisation  
Inventaritation  
Documentation

**PRINCIPLES AND METHOD**

**CONCEPT**

**CRITICS AND APPRECIATION**

**CONSERVATION GUIDELINES AND ASSISTANCE**  
**DOCUMENTATION AND INVENTARITATION**  
**BOOKS AND MANUSCRIPTS**  
**PUBLICATION AND DISSEMINATION**  
**MODEL**



**ROADMAP 25 YEARS  
2019 -2043**

**ARCHITECTURE ETHNIC, CITY AND VILLAGE**

**HISTORY**

**THEORY**

**PHILOSOPHY**

2019-2023  
2023-2028  
2028-2032  
2032-2037  
2037-2043

Book and Guidelines  
Book and Guidelines  
Book and Guidelines  
Book and Guidelines  
Book and Guidelines

**ARCHITECTURE OF INDONESIA : IDENTITY AND TRANSFORMATION**

2037-2043  
2023-2028  
2028-2032  
2023-2028  
2019-2023

Book and Guidelines  
Book and Guidelines  
Book and Guidelines  
Book and Guidelines  
Book and Guidelines

**PRINCIPLES AND METHOD**

**CONCEPT**

**CRITICS AND APPRECIATION**

**CONSERVATION GUIDELINES AND ASSISTANCE  
DOCUMENTATION AND INVENTARITATION  
BOOKS AND MANUSCRIPTS  
PUBLICATION AND DISSEMINATION  
MODEL**



# Research

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# Postgraduate Research and Publication 2015-2020



The Improvement of Ideal Geometry and Spatial Planning in the Ottoman Mosque. The Role of Architect Sinan

Naser TH. A. Al-Mughrabi Al-Hasani



Guna dan Citra Detail Arsitektural pada Rumah Jawa di Surakarta

Hardiyati



Kajian Form dan Shape pada Arsitektur Nusantara  
Wasilah



Regionalisme Arsitektur,  
Sebuah Kajian Teoritis untuk Identitas Arsitektur Indonesia

Maria I. Hidayatun

# Postgraduate Research and Publication 2015-2020



Ketidakkanggahan dalam Arsitektur : Kajian  
tentang Arsitektur Kramat Buyut Trusmi  
Cirebon

Revianto B. Santosa



Membangun Pengetahuan Arsitektur Estetika Bali. Jelajah  
Intrepretasi Naskah Arsitektur Asta Kosala Kosali

I. N. Nuri Arthana

# Postgraduate Research and Publication 2015-2020

Makna Rumah Etnis Tionghoa dalam Perspektif  
Kota yang Inklusif. Studi Kasus Kota Tuban

Zuraida

Perubahan Arsitektur Masjid Masyarakat akibat  
Pengaruh Budaya di Indonesia (1998-2018) Studi Kasus  
Masjid Masyarakat di Surabaya

Budiono

Perubahan Arsitektur Rumah Tinggal Masyarakat Jawa  
Tondano di Minahasa dalam Konteks Budaya

Heryati

Tektonika Arsitektur Joglo : Pengungkapan Nilai Budaya  
dengan Metode Historis-Intrepretatif

Adi Santosa

# Postgraduate Research and Publication 2015-2020

Transformasi Bentuk Ukiran Kawit sebagai Identitas  
Perpustakaan Daerah Kalimantan Utara

Evan Christian

Fleksibilitas Ruang : Adaptasi Eks-Insinerator Keputih  
sebagai Pusat Kegiatan Kreatif

Saadilah Yoga Iswara

Kajian Resistensi Estetika Elemen Arsitektur pada Tampang  
Bangunan di Kompleks Keraton Yograkarta

Darini Yusrina Abidah

Pengaruh Islam dan Budaya Jawa Terhadap Makna Arsitektur  
Keraton Surakarta Hadiningrat

Ihdina Sabili

## Current research interests include topics as follows :

- Redefinition Function in Architecture: Integration of Nature, Technology, and Humanity
- Nusantara Architecture: Tectonics and Material Culture, Ornaments, Structure, Construction and Meaning
- Architectural Theory, History, and Criticism in Practices and Design
- Aesthetics, Meaning, and Identity
- Materials, Mechanics, and Technology
- Structure, Construction, Stylistics, and Tectonics
- Narrative and Interpretation on Text and Architecture of Ethnics in Nusantara Architecture
- Art and Architecture
- Study on Tectonics: Representation and Aesthetics
- Architecture as Text
- Tectonics and Aesthetics of Temple
- Architectural Historiography on Heritage Building and Artefact
- Architecture and Isms
- Historical Study on Pandemic and Architecture





# DATA COLLECTION

Online meeting and interview  
during pandemic



Students and lecturer research team are doing interview with respondents to collect the data about architecture and lifestyle during Pandemic COVID-19



# Community Services

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# HISTORICAL KAMPUNG GRESIK



## ARCHITECTURAL ASSISTANCE

Rumah Gajah Mungkur Gresik , August 2020

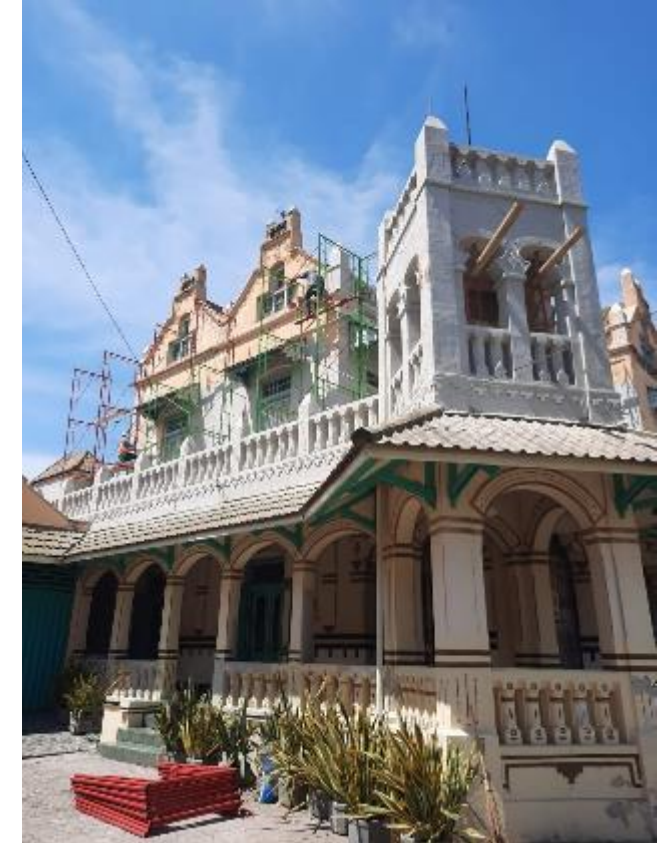
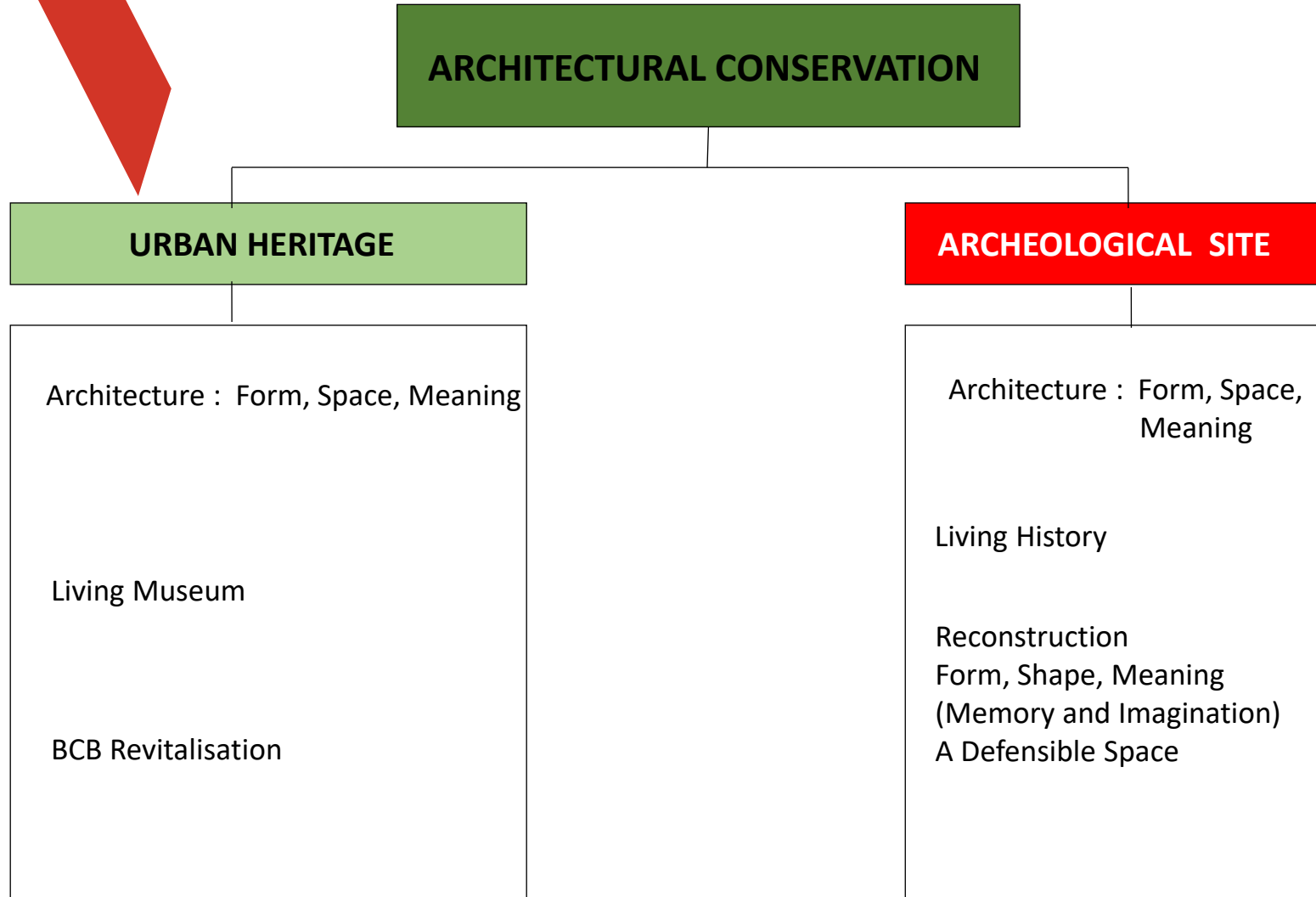


Foto @ Andy Mappajaya (2020)

ARCHITECTURAL ASSISTANCE  
KEMASAN KAMPUNG GRESIK AS LIVING MUSEUM  
2009-2016



@ Andy Mappajaya (2011)



**INTANGIBLE**

**TANGIBLE**

**Culture**

**1**

**Place**



**History  
Education**

**2**

**Restoration  
Adaptation  
Conservation  
Rehabilitation**



**Economic  
and Social  
Empowerment**

**3**

**Re-Usable**



**URBAN HERITAGE**





KEGIATAN PELESTARIAN  
CAGAR BUDAYA

## AKTIVITAS SEBAGAI LIVING HERITAGE KAMPUNG KEMASAN

Berbagai macam aktivitas yang ada di Kampung Kemasan semakin memperkuat eksistensi sebagai kampung bersejarah di Gresik. Aktivitas yang berlangsung di Kampung Kemasan sarat dengan nilai budaya, terutama yang berhubungan dengan bangunan cagar budaya. Tidak hanya wisatawan lokal, namun pelajar, mahasiswa, peneliti, dan wisatawan mancanegara juga sering mengunjungi Kemasan untuk menambah ilmu sejarah maupun sekedar berfoto. Pemugaran kampung bersejarah mampu melestarikan kekayaan arsitektur dan budaya Gresik di masa lampau.



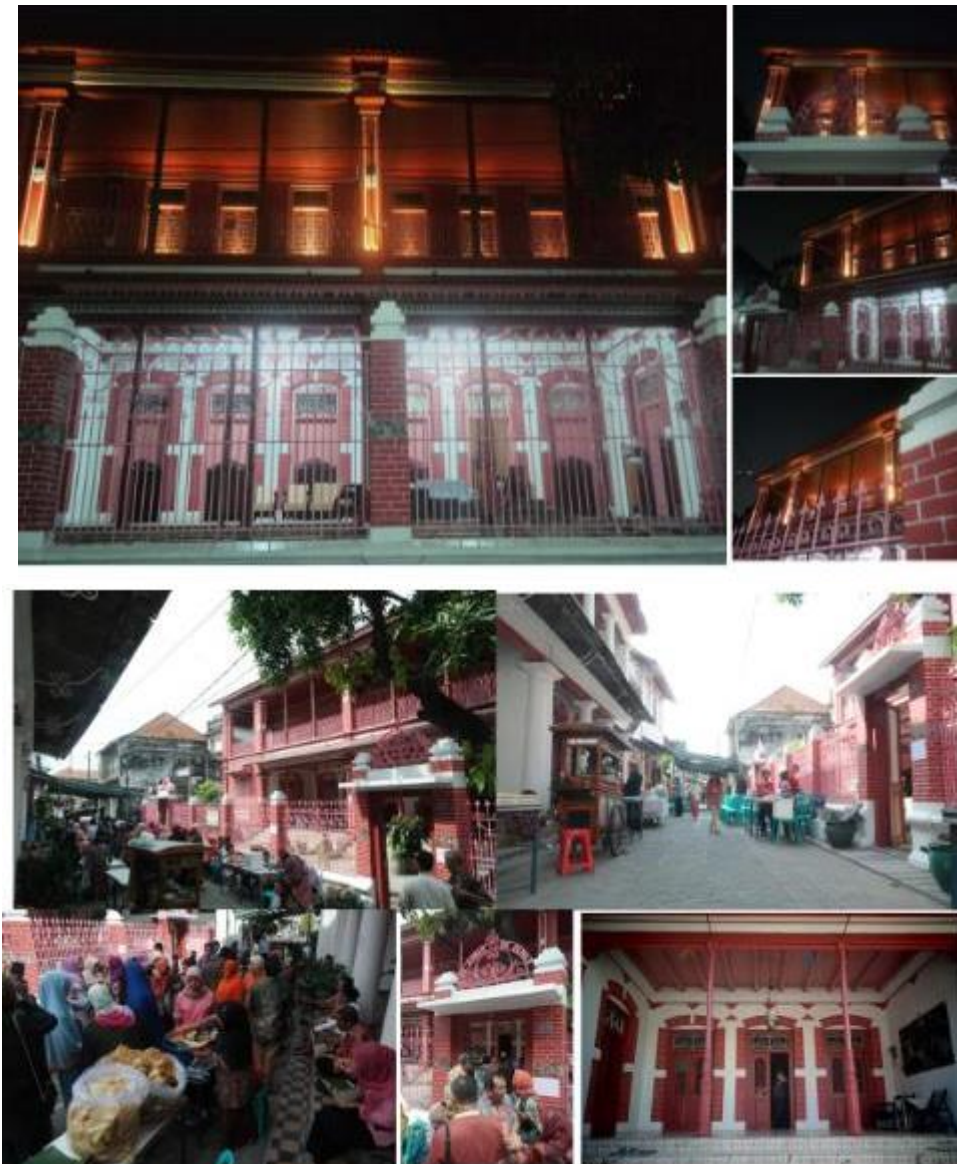
STUDI DAN WISATA SEJARAH



FESTIVAL DAN DISKUSI BUDAYA



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# VR KAMPUNG KEMASAN AFTER CONSERVATION

@Muhammad Amien



# Education

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## Kuliah Lapangan 2019

Sejarah Arsitektur, Lasem, 28-29 Maret  
Estetika Arsitektur Nusantara, Madura, 18 April

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# EXPERIENTIAL LEARNING

***THANK YOU***