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SI Sistem Informasi
Universitas Negeri Surabaya

ENTERPRISE

& DIGITAL
TRANSFORMATION

RESEARCH GROUP

Lecturer Member Team



Dwi Fatrianto Suyatno,
S.Kom., M.Kom.

- System Development
- Testing
- Business Process Management

Ardhini Warih Utami,
S.Kom., M.Kom.

- System Development
- Decision Support System
- Forecasting



Erik Rahman, S.Kom.,
M.M.S.I.

- System development
- Digital strategy & IS innovation
- User Experience (UX)
- Process Automation



Berlian Maulidya Izzati,
S.Kom. M.Kom.

- User Experience (UX)
- UI / UX Design
- UX Evaluation



Vision

To be a leading research group in **enterprise and digital transformation, developing and evaluating inclusive IS/IT solutions that improve organizational efficiency and social equity across diverse sectors.**



Mission

- Conduct cutting-edge research
- Develop and evaluate accessible and empowering technologies
- Foster collaborations that benefit individuals and organizations.



Prospek Karir Mahasiswa Lulusan EDT

- Software Developer
- IT / System Analyst
- IT Business Analyst
- IT Quality Assurance
- ERP System (Odoo, SAP) Business Analyst
- ERP System (Odoo, SAP) Developer
- UI / UX Designer
- UX Designer / Researcher
- Product Manager

Cakupan Secara Umum

- System Development
- Business Process Management
- System Testing
- Decision Support System
- UI / UX Design
- UX Evaluation
- Digital strategy & IS innovation
- Process Mining



Mata Kuliah Wajib

- Transformasi Digital
- Analisis dan Perancangan Sistem
- Pemrograman Dasar
- Basis Data
- Pemrograman Web
- UI/UX
- Testing dan Implementasi Sistem

Mata Kuliah Pendukung

- Manajemen Proses Bisnis
- Manajemen Rantai Pasok
- Dasar ERP
- Teknologi Keuangan

Mata Kuliah Rumpun

- Information System Enterprise Architecture
- Customer Relationship Management
- UX Metrics and Analytics
- Decision Support System For Business

System Development

Contoh :

- Rancang Bangun Sistem Informasi (Website / Mobile) based menggunakan metode tertentu di sebuah organisasi
- Perbaiki sistem untuk integrasi & otomatisasi



System Testing

- Pengujian Fungsional Sistem Informasi
- Analisis Response Time Sistem
- Pengujian Skalabilitas Sistem Informasi
- Pengaruh Kualitas Sistem terhadap Kepuasan dan Kinerja Pengguna



Business Process Management (BPM)

Contoh :

- Analisis dan Optimalisasi Proses Bisnis
- Penerapan sistem ERP (Enterprise Resource Planning) berdasarkan optimalisasi BPM (Business Process Management)
- Evaluasi dari penerapan manajemen proses bisnis
- Pengaruh budaya organisasi Manajemen Proses Bisnis

Research Focus (Specific)



Decision Support System

Contoh :

- Implementasi berbagai metode DSS untuk keperluan pengambilan keputusan pada studi kasus organisasi
- Implementasi berbagai metode DSS untuk keperluan pengembangan ERP



Forecasting

Contoh :

- Pengembangan Sistem Forecasting untuk bisnis organisasi (Penjualan, Stok bahan baku, pengadaan)
- Pengembangan Sistem Forecasting untuk SDM organisasi (jumlah kebutuhan pegawai)

Research Focus (Specific)



UI / UX Design

Contoh :

- Merancang antarmuka pengguna (Design / Redesign) yang intuitif untuk aplikasi web dan mobile
- Menggabungkan fitur personalisasi berdasarkan analisis perilaku pengguna.

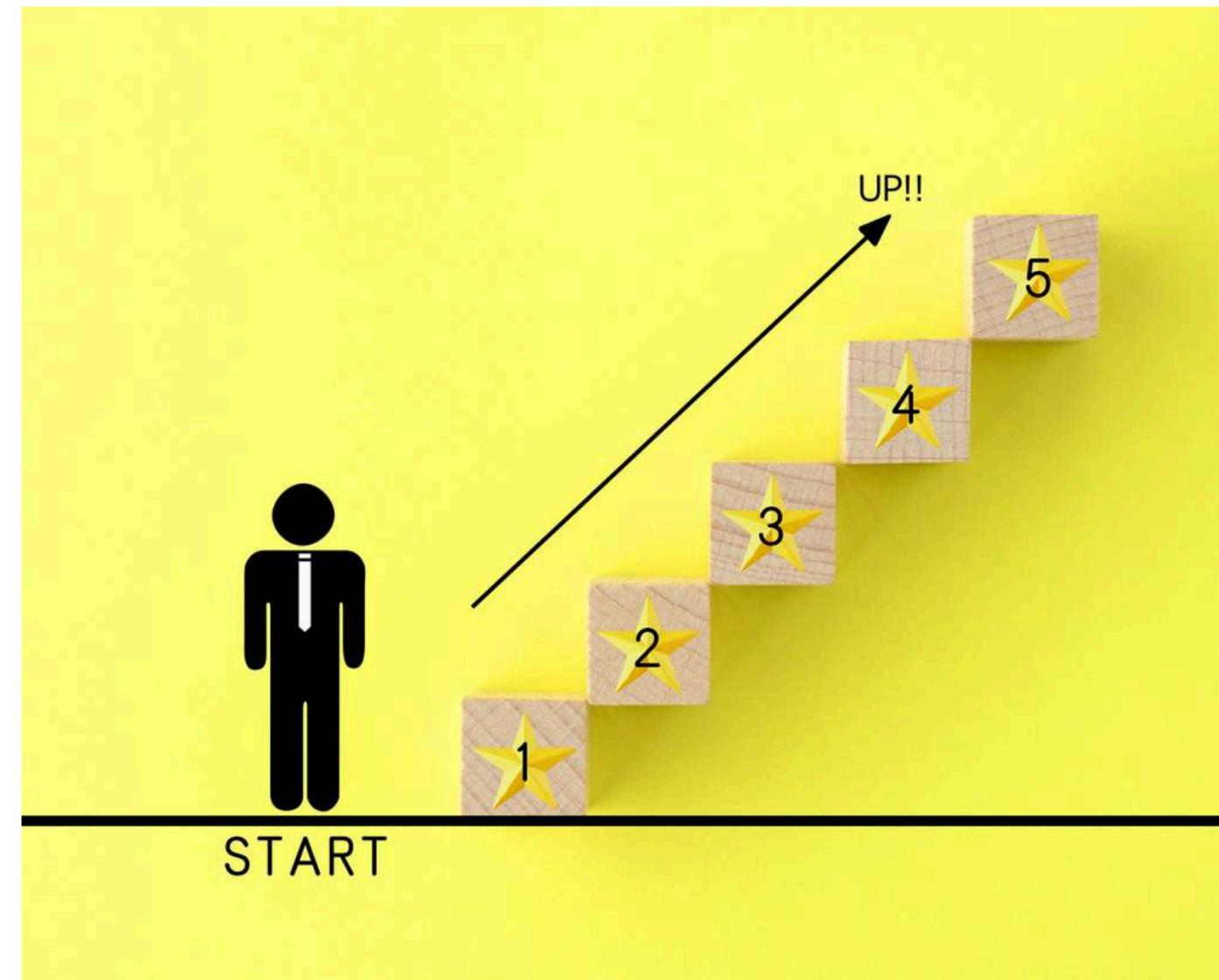


UX Evaluation

Contoh :

- Mengevaluasi interaksi pengguna untuk mengoptimalkan kegunaan sistem.
- Mengidentifikasi UX problem, menarik insight, memberikan rekomendasi desain
- Pengukuran UX Berbasis Data

Research Focus (Specific)



Digital strategy & IS innovation

Contoh :

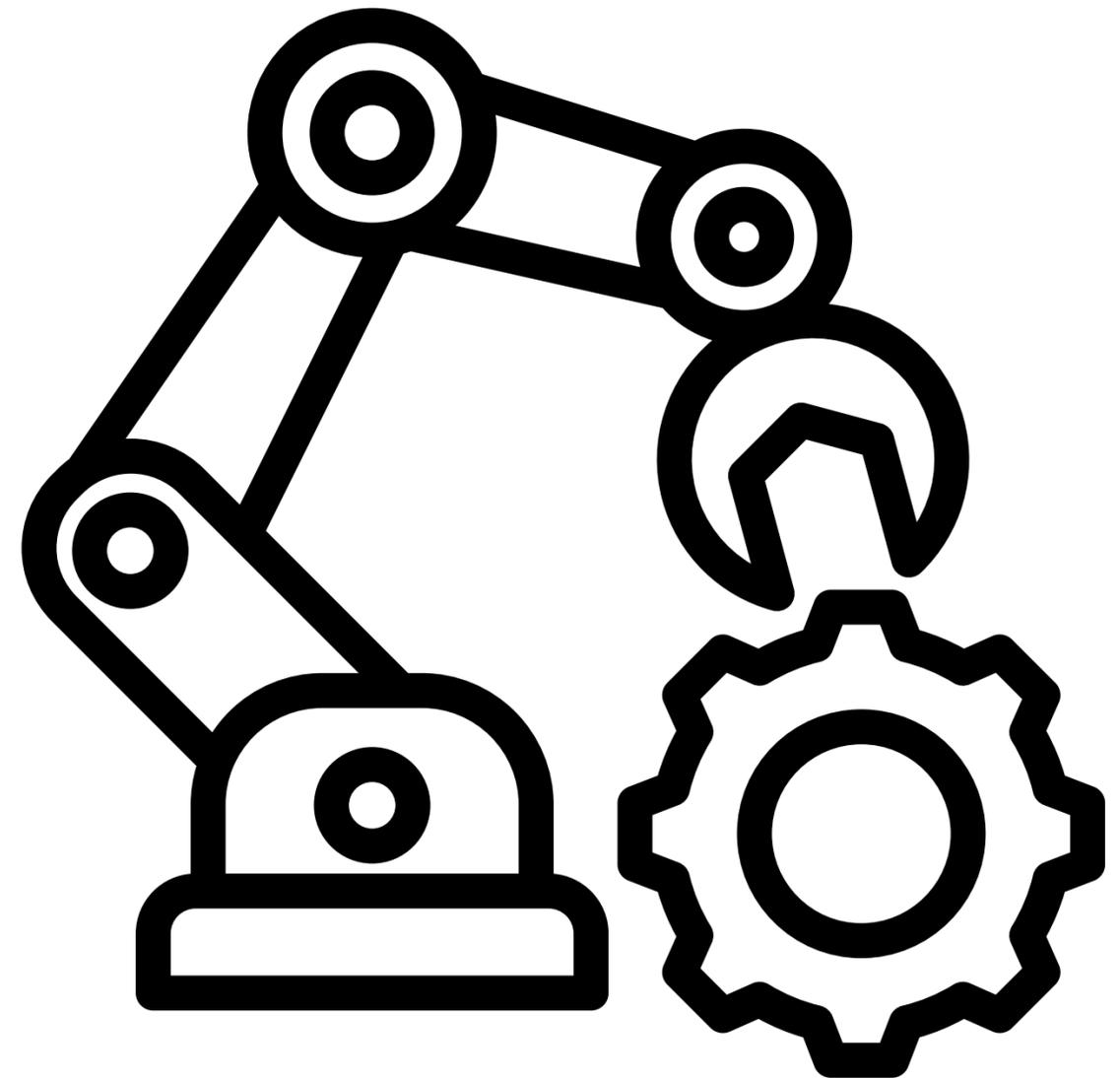
- Perancangan strategi dalam penerapan IT pada sebuah organisasi
- Pembuatan roadmap IT pada sebuah organisasi menggunakan framework
- Evaluasi penerapan pengaruh strategi IT terhadap organisasi



Process Automation

Contoh :

- RPA (Robotic Process Automation)
- Workflow Automation
- ERP automation



EDT Research Group

Research

Object

- Objek Organisasi Profit / Non-Profit
- Objek UMKM
- Objek Pemerintahan

Featured

Object

- Disabilitas
- Pendidikan
- Olahraga dan Kesehatan
- Kesetaraan Gender

Research & Featured Object



EDT Roadmap

2025 - 2030

Foundational Research and Partnership Building

Conduct thorough literature reviews on accessibility in enterprise systems, inclusive business process management (BPM), and the role of decision support systems (DSS) in promoting inclusivity across your target sectors (disabilities, education, sports & health, gender equality). Identify key stakeholders and build collaborative partnerships with relevant organizations.



Implementation and Impact Evaluation

Implement the developed prototypes in real-world settings within your target sectors. Conduct rigorous evaluations to assess the impact on user experience, organizational efficiency, and social outcomes. Utilize information system analysis and evaluation methods.



Dissemination and Knowledge Transfer

Disseminate research findings through publications, presentations, and workshops. Build a community of practice around inclusive enterprise systems. Develop policy recommendations for promoting inclusivity in the digital workplace.



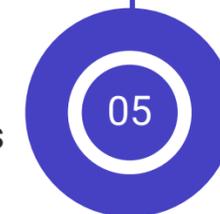
Prototype Development and User-Centered Design

Develop functional prototypes of enterprise systems, focusing on UI/UX design principles that cater to diverse user needs. Incorporate principles of inclusive BPM and DSS design. Employ iterative design processes based on user feedback.



Advanced Research & Innovation

Explore the potential of emerging technologies (e.g., AI, machine learning, extended reality) to enhance the inclusivity and effectiveness of enterprise systems. Investigate advanced methodologies for enterprise system development and BPM.



Kebijakan pembagian topik skripsi

- Topik skripsi memungkinkan untuk didapatkan dari dosen maupun mahasiswa. Bisa dalam bentuk individu maupun kelompok
- Pengerjaan skripsi diutamakan dalam bentuk kelompok (sama object, beda metode / pendekatan riset)
- Kelompok tidak harus mencari sendiri. Bisa dibuatkan dosen pembimbing
- Jika topik didapatkan dari dosen, maka mahasiswa harus lebih berkomitmen menyelesaikan topik yang ada karena biasanya terkait dengan proyek penelitian / proyek pengabdian masyarakat milik dosen
- Mahasiswa akan dimonitoring secara berkala secara keseluruhan



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Disclaimer

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**Kebijakan
EDT**

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PLEASE CONTACT

BERLIAN

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