CLASS UNIVERSITIES IN DEVELOPING COUNTRIES
GERMAN-JORDANIAN UNIVERSITY MODEL

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Road map

Topologies
Challenges
Growing rift
New trends
Impact
Proposition
GJU model
Conclusions

Educational gap
✓ Challenges in education
✓ Growing Rift ...

Educational paradigm shift
✓ New Trends
✓ Impact

Educational model at GJU
✓ Hypotheses and model proposition
✓ German-Jordanian University Model
Educational gap
Quality of teaching, resources, impact on economic development, and the quality of life of students

1. Decentralist technology driven topology

2. Centralist politically driven topology
✓ **Increasing Demand** on Higher Education

✓ Employment **market** suffers from an apparent **inflation** in university graduates and a shortage in qualified **skilled** professionals

✓ **Incompatibility** Between Higher Education Outputs and Market Needs

✓ **Financial Challenges**

✓ **Deteriorating Quality of the Education Process**
Gap between academic education and market employment requirements has grown wider....

Due to the rapid market shifts and technological advancements which academic systems, inherently, cannot pace.

Demand on adept professionals in all technology areas has grown substantially despite the exponentially growing numbers of graduates.
This contradiction simply indicates that the **sheer volumes of graduates** don’t meet the minimum employment requirements.

**Technical** know how, though essential, is not the only lacking skill, but also some other non-technical elements of the **professional characteristics** are lacking as well.
Since market shifts and changes are rapid and abrupt, a highly dynamic and flexible educational system is needed to drive a chain reaction whereby the end product (i.e. the graduate) is fit enough to meet the minimum employment requirements.
Emerging educational paradigm
✓ Fostering interdisciplinary education

✓ Enforcing standards within higher education systems

✓ In-campus facilities to bridge the painful gap between market and graduates.
✓ Providing **students** with **better education, skills, and competencies**;

✓ Increasing **awareness** and **acceptance** to the technological changes within the social fabric;
✓ Motivating faculty and staff to get along easily with technology and its usage in providing quality teaching;

✓ Encouraging university-industry partnership;

✓ Fostering creativity and innovation within student and faculty communities
Model proposition
In-campus industrial facilities provide a rich collaborative environment that brings together business and technical faculties in the pursuit of projects that cultivate partnership with industrial and business partners; updates the knowledge base of the University with the latest industry developments; and aligns the skills and knowledge of students to real and immediate industry needs.
The industry has a strong partnership tendency for the development of competitive advantage through complementing internal resources, gaining access to university facilities, and building dynamic capabilities at lower costs.
Key variables identified to influence partnership are political drive, resource diversity, competent opportunity drive, and technology exposure; resulting into three kinds of cooperative engagements: business partnership, student internship, and business incubator.

Government
Academic Institutions
Industry
Research Centers

- Commodities & Products
- R&D facilities
- Market trends
- Assistance to fresh graduate

- Academic promotions
- Industry – oriented professional development
- Entrepreneurial graduate
- Certification programs
- Industry – academia cooperation

- State-of-the-art technologies
- Investments

- Market intelligence
- Nationwide vision and priorities plan
- Scientific research
- Innovation abilities
- Tax benefits
- Entrepreneurship
- Partnership

- R&D Funding
- Researchers & staff
- Initiate & support R&D
- Facilitation, Promotion & support

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Government cooperation
✓ Academic quality and relevance to market needs, technical excellence, and experiences in modern sciences and technologies.

✓ Integrated learning, cultural diversity and multi-language skills.

✓ Knowledge of contemporary issues and preparation for professional practice and global and societal leadership.
高道德标准和品格，包括诚信、责任感、诚实和对他人的尊重。

欲望和技能，包括终身学习和个人与专业发展。

进步和激发气候，以培养创造力和创新。

- **High ethical standards** and character, including integrity, responsibility, honesty, and respect for others.
- **Desire and skills for life-long learning and personal and professional development**.
- **Progressive and Motivating Climate to foster creativity and innovation**.
• Standardized Higher Education

• Desire High Impact Interdisciplinary Research
• Monitoring and Quality control
• Interdisciplinary Education
• Diversity and Real World Experience and Impact
Cross-Disciplinary Research

A cross-disciplinary research approach is adopted as an essential component. Researchers from varieties of disciplines are encouraged to create an on-going dialogue with professionals and technologists from the private and public sectors. The successful application of technology arising from these variety of fields will influence students, faculty, private, public and local citizens.
Recruitment

Graph showing the number of graduates and undergraduates from 2005 to 2011.

Graph showing the number of faculty, administrators, and academic supporting staff from 2012 to 2019.

Success

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Research Impact:
Funding for establishments, R&D facilities, student scholarships, and research projects.
• **External Recognition:**
  - ranking at the national and international levels, faculty membership in well-known engineering societies, professional awards, leadership in professional societies, publication volume, and recognition of our contributions and innovations
• Develop competent academic programs with quality and relevance to meet changing industry requirements and needs.

• Build up international partners to create a continuous dialogue and coordination process to establish a unique educational model driven by dynamic curricula structure.
• Adopt student-centred teaching methodologies through skill-transfer and capacity building, supported by efficient internship programs at international companies and industries.

• Develop partnerships for co-operation that aim at establishing joint projects for internships and work placements and aligning educational outcomes with the market skill requirements.
• Nurtures high-tech research atmosphere

• Provides quality and relevant education to students

• Continuously develops and updates both undergraduate and graduate degree plans

• Develops highly technical, multilingual and multicultural professional competencies

• Promotes private sector partnerships at various levels and maintain sustainable industry linkages

• Promotes an alumni network for lifelong learning
Inter-University cooperation confirms the original vocation of universities as meeting places between different cultures; as means of technological advancement and economic development; and as institutions open to dialogue and to comparison between different ethnics, religious and social identities

*Principles of the 1995 Barcelona Declaration*
"Politics is for the MOMENT, but an Equation is for ETERNITY"

Albert Einstein