Towards a World-Class University
The Role of International Advisers

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Map of Saudi Arabia
KAU was established in 1967 to spread higher education in the Western Region of Saudi Arabia. It began with a small number of programs and students.
KAU Status

The KAU has now:

- About 45,000 students.
- Six campuses in the Western Region of the kingdom.
- More than 200 undergraduate programs.
- More than 140 graduate programs.
- About 6000 academic staff, more than 40% of them are International.
- The majority of its academic programs acquired accreditation from academically prestigious international bodies.

KAU Status

- The number of publications and Citations has increased in recent years (Up to 5-9-2013).
### KAU Status

#### QS 2013

<table>
<thead>
<tr>
<th>Category</th>
<th>Worldwide</th>
<th>Top 50 under 50 years</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>360</td>
<td>43</td>
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</table>

#### THE 2012-2013

<table>
<thead>
<tr>
<th>Category</th>
<th>Worldwide</th>
<th>Asian University</th>
<th>Top 100 under 50 years</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>351-400</td>
<td>49</td>
<td>68</td>
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</table>
The previous achievement was a result of a planned process that passed through the following successive steps:

- Establishing a campus with an excellent infrastructure.
KAU Steps Towards World-Class University

• Establishing Research and learning facilities.

Engineering Workshop

Flexible Production Technologies Laboratory

KAU Steps Towards World-Class University

• Recruitment of talent faculty.
• Designing Curricula with of international standard.

**AE 301  Fundamentals of Flight**  
(3:3,1)  
History of flight, Airplane components and their functions, Nature of Aerodynamic forces, Wind tunnel testing, Atmosphere, Incompressible and compressible one dimensional flow, Two dimensional flow, hydrodynamic theory and circulation, Finite wing, Introduction to boundary layer, Determination of total incompressible drag, Compressible drag, Airfoils, High lift systems.  
**Prerequisites:** MEP 261, MEP 290

**AE 311  Low Speed Aerodynamics**  
(3:3,1)  
Conservation laws for real flows, Navier Stokes equations, 2-D ideal flows using stream and velocity potential functions, Kutta-Joukowski theorem, Numerical solutions, Complex potential, Joukowski airfoil, Thin airfoil theory, Viscous flow, Laminar boundary layer equations, Momentum integral equation, Turbulent boundary layer Skin friction drag, Form drag, Finite wings, Down wash and induced drag.  
**Prerequisites:** EE 300, AE 301, EE 332

• Making a clear linkage of the curricula to KAU strategic planning.
Providing an endowment to ensure the sustainability of university scientific research.

<table>
<thead>
<tr>
<th>Year</th>
<th>No. of Scientific Chairs</th>
</tr>
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<tbody>
<tr>
<td>2006</td>
<td>1</td>
</tr>
<tr>
<td>2007</td>
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<td>2009</td>
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<td>2010</td>
<td>18</td>
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<tr>
<td>2011</td>
<td>23</td>
</tr>
<tr>
<td>2012</td>
<td>29</td>
</tr>
</tbody>
</table>

KAU has eight centers of excellence in different fields of research.

- Advanced Materials
- Desalination Technology
- Genomic
- Environ-mental Studies
- Hereditary Disorders
- Osteoporosis
- Breast Cancer
- Climate Change
KAU Steps Towards World-Class University

- Having more than 40 Scientific Chairs sponsored by individuals and companies.
- Establishing a “Distinguished Scientists” program to collaborate with distinguished scientists from all over the world in conducting world-class research.
- Establishing a "Post-Doctoral" program to attract young scientists to work at KAU.

The International Advisory Board (IAB)

1st Meeting (29-30\1\2011) at KAU, Jeddah
The International Advisory Board (IAB)

- Establishing an International Advisory Board (IAB) at Feb. 2010.
- IAB is to facilitate KAU improvement by the review, evaluation and utilization of the latest ideas from international authorities in the fields of academia and industry.
- IAB members are highly distinguished and experienced scientists from all over the globe.

IAB Members

Prof. Linda Katehi
Chancellor at Davis, University of California U.S.A

Dr. Sabine U O’Hara
Executive Director, Council for International Exchange of Scholars, U.S.A.

Dr. Julio Frenk
Former Minister of Health, Mexico, and Dean of the Faculty, Harvard School of Public Health U.S.A

Prof. E Gordon Gee
President, Ohio State University, U.S.A

USA
IAB Members

Prof. Rafael Puyol
Chairman of the Board of Directors, IE University
SPAIN

Dr. Vincenzo Costigliola
President, European Medical Association
BELGIUM

Prof. Abdullah Atalar
Rector, Bilkent University
TURKEY

Prof. Dr. Yucel Altunbasak
President, The Scientific & Technological Research Council of Turkey, TURKEY

Prof. Dr. Yucel Altunbasak
President, The Scientific & Technological Research Council of Turkey, TURKEY

Europe

IAB Members

Prof. Thomas Wilhelmsson
Chancellor, University of Helsinki
FINLAND

Prof. J.M.M. Ritzen
Former President, Maastricht University
THE NETHERLANDS

Prof. Michael Arthur
President and Provost of University College London, United Kingdom

Prof. Georg Winckler
Former Rector, University of Vienna
AUSTRIA

Dr. Jamil Salmi
Global Tertiary Education Expert
FRANCE

Europe
IAB Members

Dr. Michiharu Nakamura
President, Japan Science and Technology Agency (JST), JAPAN

Prof. Michinari Hamaguchi
President Nagoya University, JAPAN

Dr. Hee-Beom Lee
Advisor, LG International Chairman, Korea Employers Federation, KOREA

Prof. Yeon-Cheon Oh
President, Seoul National University, KOREA

Prof. YANG Yu-liang
President, Fudan University, CHINA

Prof. Su Guanling
President Emeritus, Nanyang Technological University, SINGAPORE

East Asia

IAB Members

Dr. Nahed Mohammed Taher
Founder & CEO of Gulf One Investment Bank, SAUDI ARABIA

Sheikh Muhammad Hussain Al-Amoudi
CEO of Alamoudi Group, SAUDI ARABIA

Prof. Adnan H. Zahed
KAU Vice President for Graduate Studies and Scientific Research, Secretary-General of IAB, SAUDI ARABIA

Prof. Osama S. Tayeb
President of KAU, Chairman of IAB, SAUDI ARABIA

Saudi Arabia
IAB meetings

• IAB meetings are held twice annually. One on the KAU campus in Jeddah, Saudi Arabia, while the other on the university campus of one of the IAB members.

• To date, five meetings have been held.

Themes of the meetings

1st Meeting: Revision of KAU Strategic Plan.
1st Meeting (29-30\'1/2011) at KAU, Jeddah

2nd Meeting: Development of Scientific Research at KAU.

2nd Meeting (2-3\'7/2011) at Vienna University, Austria

Map of Austria
IAB meetings

2nd Meeting (2-3/7/2011) at Vienna University, Austria

IAB meetings

3rd Meeting: KAU Systematic Steps towards Creativity and Innovation.

IAB-III

3rd Meeting (18-19/2/2012) at KAU, Jeddah

Photo of Jeddah
3rd Meeting (18-19/2/2012) at KAU, Jeddah

4th Meeting: KAU Systematic Steps towards Creativity and Innovation - Part 2.

IAB-IV

4th Meeting (13-14/10/2012) at IE University, Madrid

Map of Spain
4th Meeting (13-14/10/2012) at IE University, Madrid

5th Meeting: Towards Excellence in Teaching and Learning.

5th Meeting (11-12/5/2013) at KAU, Jeddah

Photo of Jeddah
IAB meetings

5th Meeting (11-12/5/2013) at KAU, Jeddah

IAB-VI

Will be held at Bilkent University, Ankara, Turkey
22-24 th Nov. 2013

Map of Turkey
The meetings reached many ideas and recommendations, most of the outcome ideas of IAB are implemented.

Meetings Recommendations

Some of the meetings recommendations:

In the Field of Education

1. KAU should concentrate on the knowledge based economy.

2. Launch drive to enhance learning and education through: Pedagogy, measurement of outcome, facilities, recruitment, training, appraisal and rewards.
Meetings Recommendations

In the Field of Education

3 KAU should increase international exchange programs, and enhance English capability throughout the curriculum.

4 KAU should recruit professors with industrial experience.

Meetings Recommendations

In the Field of Research

1 KAU should initially seek excellence in a limited number of, rather than all of its specializations.

2 Establishing the “Prize System” for high quality published work.

3 KAU should attract outstanding faculty members from all parts of the world.
### Meetings Recommendations

**In the Field of Community Service**

1. Forming partnerships with the local industrial sector.
2. Increasing the number and range of graduate programs and enrolling a higher number of national and international graduate students.
3. The importance of creating programs aimed at discovering gifted and talented students.
4. Encouraging creativity and innovation as the norm.
5. Concentration on investment in intellectual capital.

<table>
<thead>
<tr>
<th>Meeting</th>
<th>Recommendation</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Marketing of creativity and innovation.</td>
</tr>
<tr>
<td>7</td>
<td>Establishing a special center for creativity and innovation.</td>
</tr>
<tr>
<td>8</td>
<td>Developing the software which KAU uses to discover talent.</td>
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<tr>
<td>9</td>
<td>Introducing entrepreneurship programs to encourage students to start their own business.</td>
</tr>
</tbody>
</table>
• KAU has applied several measures to assess its status among the ranks of world-class universities.

• Establishing of an International Advisory Board (IAB) in one of these measures. Five meetings of IAB that have been held so far have clearly illuminated the way ahead for KAU.

• The strategic involvement of international advisors in KAU deliberation and planning has played an important role in guiding KAU towards the achievement of international recognition.

Conclusions

• IAB studies, insights, discussions and recommendations have had a valuable influence on producing and energizing the decisions, actions and implementation of best practice in academic excellence necessary for world-class status.

• Increasing the number of publication of paper & citations in recent years. The work of KAU researchers is published in internationally recognized scientific journals. Thus, KAU has been ranked within 200-400 universities in the world by three different international ranking institutions.
Thank You