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COLLOQUIA, GUEST LECTURES, PRESENTATIONS AND SEMINARS GIVEN

My Philosophy of Life
While there is a will there is a way

NO handwritten notes except original signatures.
VOID unless bears original signatures on every page.
DATE and TIME of printing must match on every page.

Abbreviations

AKU: The Aga Khan University Medical College, Karachi, Pakistan
FUUAST: Federal University of Arts, Sciences and Technologies, Karachi
IBA: Institute of Business Administration, Karachi
IST: Institute of Space Technology, Islamabad, Pakistan
KMDC: Karachi Medical and Dental College, Karachi
KU: University of Karachi, Karachi, Pakistan

May 20, 2016

Handout

- **G73: Guidance, Navigation and Control Concepts in Armament Design**
<http://www.ngds-ku.org/Presentations/GNC.pdf>
Guest Lecture, Certificate Distribution Ceremony of Ordinance Engineering System Management and Application Course, Ordinance Training School, PNAD, Maripur, Karachi, Pakistan (to be given in a few hours)

Update: July 1, 2016

May 17, 2014

Handout

- **G72: Sports and Anthromathematics**
http://www.ngds-ku.org/Presentations/Sport_Mathematics.pdf
Seminar, 55th Annual Prize Distribution Function, Government College, Hyderabad, Pakistan

[Ⓞ]National Curriculum Revision Committee

[Ⓞ]Higher Education Commission, Govt. of Pakistan

[§]National Testing Service Pakistan <http://www.nts.org>

[#]American Institute of Aeronautics and Astronautics

[‡]International Brain Research Organization

^εThe Abdus Salam International Center for
Theoretical Physics, Trieste, Italy

[‡]The Early Talent Research Participation Program

[¶]Transparency International Pakistan

*Anthromathematics Group

[§]Department of Mathematics

[‡]National Growth and Developmental Standards for the
Pakistani Children <http://ngds-ku.org>

^εUnited States (of America)

[&]University of Karachi, Karachi <http://www.uok.edu.pk>

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- April 15, 2014
Handout
- **G71: Astromathematics**
<http://www.ngds-ku.org/Presentations/Astromathematics14.pdf>
Seminar, Government Degree College for Men, Nazimabad, Karachi, Pakistan
- April 10, 2013
Handout
- **G70: Anthromathematics: Mathematics of the Third Millennium**
<http://www.ngds-ku.org/Presentations/AMTM.pdf>
Research Seminar, Department of Mathematics, Federal University of Arts, Sciences and Technologies (FUUAST), Gulshan-é-Iqbal Campus, Karachi, Pakistan
- May 6, 2012
Handout
- **G69: Anthromathematics in the Service of Community Medicine**
<http://www.ngds-ku.org/Presentations/KMDC.pdf>
Clinical Seminar, Department of Community Health Sciences, Karachi Medical and Dental College (KMDC), Karachi, Pakistan
- May 28, 2011
Handout
- **G68: Intelligent Power, Conflict Resolution, Complexity and International Trade**
<http://www.ngds-ku.org/Presentations/IBA.pdf>
Institute of Business Administration (IBA), City Campus, Karachi, Pakistan
- March 31, 2011
Handout
- **G67: Intelligent Power and Conflict Resolution**
<http://www.ngds-ku.org/Presentations/IR05.pdf>
Department of Political Science, University of the Punjab, the Quaid-é-Azam Campus, Lahore, Pakistan
- February 19, 2011
Handout
- **G66: From Anthropometry to Anthromathematics**
<http://www.ngds-ku.org/Presentations/Ziauddin.pdf>
Faculty of Medicine Research Seminar, the Ziauddin University, Clifton Campus, Karachi, Pakistan
- November 4, 2010
Announcement
- **G65: My Journey of Life: Challenges and Opportunities**
<http://www.ngds-ku.org/Presentations/PAS.pdf>
Guest Scientist, the Pakistan Academy of Sciences Karachi Chapter Program, the LEJ National Science Center, KU
- September 29, 2010
Handout
- **G64: Soft Power, Smart Power and Intelligent Power**
<http://www.ngds-ku.org/Presentations/IR04.pdf>
Graduate Studies Discussion Group, Department of International Relations, KU
- March 11, 2010
Handout
- **G63: Simulation and Soft Power**
<http://www.ngds-ku.org/Presentations/IR03.pdf>
Graduate Studies Discussion Group, Department of International Relations, KU
- October 22, 2009
Handout
- **G62: Role of Information Processing in Conflict Resolution**
<http://www.ngds-ku.org/Presentations/IR02.pdf>
Graduate Studies Discussion Group, Department of International Relations, KU
- January 24, 2009
Event Highlights
Handout
- **G61: Role of Mathematics in the Clinical Sciences**
<http://www.ngds-ku.org/Presentations/ICCBS.htm>
<http://www.ngds-ku.org/Presentations/ICCBS.pdf>
Seminar, the International Center for Chemical and Biological Sciences (ICCBS), KU
- August 29, 2008
- **G60: Mission Design for Satellite-Launch Vehicle**
Concluding Session, Professional Development Short Course, Department of Aeronautics and Astronautics, IST
- August 16, 2008
Handout
- **G59: Technical Aspects of Preparing a Research Proposal**
<http://www.ngds-ku.org/Industrial/proposals.htm>
Presentation, Workshop on Preparing Research Proposals, Office of Dean, Faculty of Science, KU
- May 9, 2008
Handout
- **G58: Mission Design for Satellite-Launch Vehicle**
<http://www.ngds-ku.org/Presentations/UIT.pdf>
Research Seminar, the Usman Institute of Technology, Karachi
- March 29, 2008
Handout
- **G57: The Direction of Qibla (Makka)**
<http://www.ngds-ku.org/Presentations/Qibla.pdf>
Research Seminar, Department of Geography, KU
- November 8, 2007
Event Highlights
Handout
- **G56: Presentation Skills**
<http://www.ngds-ku.org/Professional/HEC01.htm>
<http://www.ngds-ku.org/Professional/HEC01.pdf>
Guest Lecture, Higher Education Commission, Karachi

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- September 8, 2007 • **G55: Guidance, Navigation and Control of Satellite-Launch Vehicle**
Research Seminar, Department of Physics, KU
- August 30, 2007 • **G54: Communication Skills in International Relations**
Event Highlights <http://www.ngds-ku.org/Professional/IR01.htm>
Handout <http://www.ngds-ku.org/Professional/IR01.pdf>
Golden Jubilee Seminar Series, Graduate Studies Discussion Group, Department of International Relations, KU
- May 30, 2007 • **G53: The NGDS Pilot Project: A Bioinformatics Perspective**
Research Seminar, Bahria University, Karachi
- May 11, 2007 • **G52: Astrodynamics and Flight Dynamics**
Concluding Session, Professional Development Short Course, Training Division, SUPARCO (Plant), Pakistan Space and Upper Atmosphere Research Commission, Karachi
- September 21, 2006 • **G51: The NGDS Pilot Project: Growth and Development of the Pakistani Children**
Research Seminar, Department of Special Education, KU
- September 14, 2006 • **G50: Time Management**
Event Highlights <http://www.ngds-ku.org/Professional/TM.htm>
Handout <http://www.ngds-ku.org/Professional/Notes04.pdf>
Professional-Skills-Development Seminar, Department of Mathematics, KU — Chief Guest: Registrar, KU
- September 2, 2006 • **G49: BS, MS and PhD Schemes of Studies Prepared by NCRC (HEC)**
Research Seminar, Department of Mathematics, KU — Chief Guest: Dean, Faculty of Science, KU
- August 19, 2006 • **G48: Guidance, Navigation and Control of Spacecraft**
Concluding Session, Professional Development Short Course, Department of Aeronautics and Astronautics, IST
- August 5, 2006 • **G47: An Overview of Astrodynamics**
MPhil/PhD Seminar, Department of Mathematics, KU
- July 29, 2006 • **G46: Control Laws for Spacecrafts and Satellites**
Research Seminar, Department of Mathematics, KU
- March 30, 2006 • **G45: Goal Setting**
Event Highlights <http://www.ngds-ku.org/Professional/Goal.htm>
Handout <http://www.ngds-ku.org/Professional/Notes03.pdf>
Professional-Skills-Development Seminar, Department of Mathematics, KU — Chief Guest: Former Division Chief, United Nations Capital Development Fund
- March 16, 2006 • **G44: Presentation Skills**
Professional-Skills-Development Seminar, Department of Mathematics, KU
- March 4, 2006 • **G43: The ICP Model of Child Growth (Concluding Remarks)**
Research Seminar, Department of Mathematics, KU
- February 23, 2006 • **G42: Communication Skills**
Professional-Skills-Development Seminar, Department of Mathematics, KU
- February 20, 2006 • **G41: The NGDS Pilot Project: Is Your Child Growing All Right?**
Handout http://www.ngds-ku.org/ngds_folder/Handout.pdf
Presentation, Beacon Light Academy, Karachi
- February 11, 2006 • **G40: Research-Proposal Writing**
Research Seminar, Department of Mathematics, KU
- October 26, 2005 • **G39: The NGDS Pilot Project: Generating Growth Profiles of Children and Monitoring Spinal Curvatures**
Seminar, Department of Pediatrics, Dow University of Health Sciences, Karachi
- August 27, 2005 • **G38: The NGDS Pilot Project: Methods to Generate Detailed Growth Profile and Monitor Spinal Curvatures in Children**
Seminar, Departments of Pediatrics and Orthopedic Surgery, Frontier Medical College, Abbottabad, KP, Pakistan

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- August 26, 2005 • G37: Astrodynamics for Space Technologists
Concluding Session, Professional Development Short Course, Department of Aeronautics and Astronautics, IST
- August 6, 2005 • G36: Department of Mathematics, University of Karachi: Challenges and Opportunities for the Twenty-First Century and the Third Millennium (Opening Remarks)
Guest Research Seminar, Department of Mathematics, KU— Chief Guest: Vice Chancellor, KU
- July 30, 2005 • G35: Mathematical Modeling of Growth of Children (Concluding Remarks)
Research Seminar, Department of Mathematics, KU
- March 14, 2005 • G34: Interviewing Skills
(behavior-based interviewing: from the perspective of interviewee as well as Interviewer) MIBM Seminar, Department of Mathematics, KU
- February 8, 2005 • G33: Higher Education and Research in Mathematics at University of Karachi: Challenges and Opportunities
MPhil/PhD Seminar, Department of Mathematics, KU
- January 17, 2005 • G32: Industrial and Business Mathematics at University of Karachi
Research, Teaching and Professional Exposure: Challenges and Opportunities
MIBM Seminar, Department of Mathematics, KU
- January 15, 2005 • G31: Mathematics Research and Teaching in University of Karachi: Challenges and Opportunities
Research Seminar, Department of Mathematics, KU
- January 13, 2005 • G30: How to Become a Good Presenter?
Students' Seminar, Department of Mathematics, KU
- July 31, 2004 • G29: Win the Interview: Win the Job
Students' Seminar, Department of Mathematics, KU
- March 22, 2004 • G28: The NGDS Pilot Project: Controlling Growth of a Child
Seminar, Postgraduate Teaching Program, Department of Pediatrics, the Nishtar Medical College, Multan, Pakistan
- February 7, 2004 • G27: The Covariant-Generalized-Coupling Model of Global Electrocardiac Activity
Research Seminar, Department of Mathematics, KU
- January 19, 2004 • G26: Presentation Skills to Persuade
Students' Seminar, Department of Mathematics, KU
- January 17, 2004 • G25: Effective Presentations
MIBM Seminar, Department of Mathematics, KU
- May 6, 2003 • G24: The NGDS Pilot Project: Modeling Growth of the Future PAF Officers
Seminar, Air War College, PAF Base 'Faisal', Karachi
- March 8, 2003 • G23: The NGDS Pilot Project: Anthropometry and Growth Modeling of the Pakistani Children
Research Seminar, Faculty of Pharmacy, KU
- March 5, 2003 • G22: Generalized-Coupling Model of Global Electrocardiac Activity
Research Seminar, Division of Biological and Biomedical Sciences, AKU
- January 22, 2003 • G21: The NGDS Pilot Project: Anthropometry and Growth Modeling of the Pakistani Children
Research Seminar, Division of Biological and Biomedical Sciences, AKU
- October 16, 2002 • G20: The NGDS Pilot Project: Documenting and Modeling Growth of the Future Army Officers
Presentation, Army Public School, 'O' Levels, Karachi
- April 24, 2002 • G19: The NGDS Pilot Project: Documenting and Modeling Growth of the Pakistani Children
Seminar, Postgraduate Teaching Program, Department of Pediatrics, AKU
- January 26, 2002 • G18: The NGDS Pilot Project: Modeling Growth of the Pakistani Children
Presentation, PAF (Fazaia) Degree College, Base 'Faisal', Karachi

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| December 7, 2001 | • G17: The NGDS Pilot Project: Anthropometry of the Pakistani Children
Presentation, Aureole High School, Karachi |
| March 19, 1998 | • G16: Image Processing in the Business, the Medicine and the Industry
Seminar, Hamdard Institute of Management Sciences (HIMS), Hamdard University,
Karachi |
| March 12, 1998 | • G15: Mathematical Modeling in the Business
Seminar, Hamdard Institute of Management Sciences (HIMS), Hamdard University,
Karachi |
| March 7, 1998 | • G14: 3-D Optical Imaging and Image Processing: Biomedical Applications
MIBM Seminar, Department of Mathematics, KU (coverage in April 1998 issue of the
MEDICINE International) |
| January 21, 1998 | • G13: How to Motivate the Students to Learn?
Seminar, AKU |
| October 21, 1995 | • G12: 3-D Optical Imaging and Image Processing
MIBM Seminar, Department of Mathematics, KU |
| October 7, 1995 | • G11: The Application of Mathematics to Rocketry
MIBM Seminar, Department of Mathematics, KU |
| August 3, 1995 | • G10: A Mathematical Model of the Brain
MIBM Seminar, Department of Mathematics, KU |
| July 3, 1993 | • G09: 3-D Optical Imaging: Medical Applications
Guest Lecture, the Baqai Medical College, Karachi |
| July 11, 1991 | • G08: 3-D Optical Imaging: Medical Applications
Guest Lecture, AKU |
| July 16, 1990 | • G07: 3-D Optical Imaging
Summer Luncheon Seminar, Harvard-MIT Center for Biomedical Engineering,
Massachusetts Institute of Technology, Cambridge, Massachusetts, USA |
| October 1988 | • G06: Medical Applications of Moiré Fringe Topography
Participant Talk, College on Medical Physics, ICTP (the Abdus-Salam International
Center for Theoretical Physics), Trieste, Italy |
| August 21, 1988 | • G05: Moiré Topography
Colloquium, Department of Physics, KU |
| April 25, 1987 | • G04: Moiré Topography in the Management of Spinal Deformities
Guest Lecture, AKU |
| December 25, 1986 | • G03: Expansion of the Universe
Presentation, Meeting of the Albert Einstein Society, Karachi |
| November 25, 1986 | • G02: The Making of a Physicist
The Karachi Physics Society Seminar, FG Urdu Science College, Karachi |
| November 17, 1986 | • G01: Moiré Topography
Presentation, Meeting of the Albert Einstein Society, Karachi |

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