

## PERSONAL INFORMATION

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Name: Rami Abdel-Rahem  
Family Statues: Married  
Nationality: Jordanian  
Date of Birth: 14-November-1974  
Place of Birth: As Sarih  
Address in Jordan: As Sarih-Irbid –Jordan,  
Mobile Number : 00962788816165  
Email Address: [Shiyap@yahoo.com](mailto:Shiyap@yahoo.com)  
[rabelrahem@kfu.edu.sa](mailto:rabelrahem@kfu.edu.sa)



## EDUCATION

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### Doctor of Natural Science (Dr.rer.nat) in Physical Chemistry

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Date of obtaining the degree: October 2003  
Name of the University: University of Bayreuth  
Location: Germany- Bayreuth- University of Bayreuth-  
Department of Physical Chemistry I.  
PhD thesis title : Phase Behaviour and Structural Transitions in the  
Mixtures of Cationic Surfactants and Hydrophobic  
Counterions.  
Name of the supervisor Prof. Dr. Heinz Hoffmann  
Final grade: Magna cum laude (1,0)  
Language of the thesis: English  
Thesis in the internet: <http://opus.ub.uni-bayreuth.de/volltexte/2003/59/index.html>

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### Master of Science (M.Sc.) in Applied Chemistry

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Date of obtaining the degree: October 2000  
Name of the University: Jordan University of Science and Technology.  
Location: Jordan- Irbid- Jordan University of Science and  
Technology -Department of Applied Chemical  
Science.  
Master Thesis Title: Physiochemical Studies on Technical Surface Active  
Agents in Aqueous Media.  
Name of the Supervisor: Dr. Bassam Bitar  
Final Grade: Very good  
Language of the thesis: English

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**Dr. Rami Abdel-Rahem, King Faisal University, College of Science, Department of Chemistry,**  
**Saudi Arabia, Al-Ahsa, P.O.Box: 400, (Al-Hafouf) 31982**

**Mobile Number: 00966568374784**

**Email: [Shiyap@yahoo.com](mailto:Shiyap@yahoo.com)**

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## Bachelor of Science (B.Sc.) in Applied Chemistry

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Date of obtaining the degree: October 1996  
Name of the University: Jordan University of Science and Technology.  
Location: Jordan- Irbid- Jordan University of Science and Technology -Department of Applied Chemical Science.  
Final Grade: Good

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## High School Diploma

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Date of obtaining the Degree: 1992  
Name of the School: As Sarih Secondary School  
Location: Jordan- Irbid- As Sarih  
Final Grade: Very good

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LANGUAGES				
Type of language	Speaking	Reading	Understanding	Writing
Arabic	Excellent	Excellent	Excellent	Excellent
English	Very good	Excellent	Excellent	Very good
German	Good	Very good	Very good	Good

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## WORK EXPERIENCE

15/02/2011-Until Now	<p><b>Associate Professor of Chemistry</b> at King Faisal University College of Science, Saudi Arabia, Al-Ahsa, Qatar Street, P.O.Box: 400, (Alhafouf) 31982,Tel: 00966568374784. Dr. Abdel-Rahem is assigned to teach the following courses:</p> <ul style="list-style-type: none"><li>- Quantum Chemistry.</li><li>- Theoretical and Practical Physical Chemistry.</li></ul> <p>Dr. Abdel-Rahem is a member of quality and accreditation committee at college of Science KFU. He is also the member in the science college website developing committee.</p> <p><a href="http://www.kfu.edu.sa">www.kfu.edu.sa</a></p>
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**Dr. Rami Abdel-Rahem, King Faisal University, College of Science, Department of Chemistry,**  
**Saudi Arabia, Al-Ahsa, P.O.Box: 400, (Al-Hafouf) 31982**

**Mobile Number: 00966568374784**

**Email: Shiyap@yahoo.com**

2005 – 15/02/2011	<p><b>Assistant Professor of Chemistry</b> at King Faisal University College of Science and Al-Hassa Teachers College, Saudi Arabia, Al-Ahsa, Qatar Street, P.O.Box: 2313, (Alhafouf) 31982, Tel: 00966568374784. Dr. Abdel-Rahem is assigned to teach the following courses:</p> <ul style="list-style-type: none"><li>- Quantum Chemistry.</li><li>- Theoretical and Practical Physical Chemistry.</li><li>- Theoretical and Practical General Chemistry.</li><li>-Supervising Undergraduate Projects.</li></ul> <p>Dr. Abdel–Rahem is the coordinator of chemistry section. He is also the coordinator of social committee and a member of computer and information center at Al-Ahsa teachers college.</p> <p><a href="http://www.kfu.edu.sa">www.kfu.edu.sa</a></p>
2003 – 2005	<p><b>Faculty Member of Chemistry</b> at University of Al-Mergeb, Libya, Alkhoms, Faculty of Science and Arts Department, Chemistry Department, P.O.Box: 40770, Tel: (0021821) 31-621912-119 and (0021821) 31-621911-119, Fax: 00218-31-625953. Dr. Abdel-Rahem was assigned to teach the following courses:</p> <ul style="list-style-type: none"><li>-Quantum Chemistry and Molecular Spectroscopy.</li><li>-Electrochemistry.</li><li>-Kinetic of Chemical Reactions.</li><li>-Thermodynamics.</li><li>-Chemistry of Colloids.</li><li>-General Chemistry.</li><li>-Practical Physical Chemistry.</li><li>-Supervising Undergraduate Projects.</li></ul> <p>Dr. Abdel–Rahem was the coordinator of higher studies at chemistry department.</p> <p><a href="http://www.elmergib.edu.ly/modules/aboutUniversity">http://www.elmergib.edu.ly/modules/aboutUniversity</a></p>

2000 – 2003	<p><b>Research and Teaching Assistant</b> (during PhD program) at University of Bayreuth, Germany, Department of Physical Chemistry I, Bayreuth 95440. Mr. Abdel-Rahem was assigned to teach the following courses:</p> <ul style="list-style-type: none"> <li>-Practical Physical Chemistry.</li> <li>-Supervising Undergraduate Projects.</li> </ul> <p><b>Researcher</b> on industrial projects for Cognis Company, Germany, Düsseldorf. The projects were</p> <ol style="list-style-type: none"> <li>1- Controlling the dissolution rate of surfactants hard table.</li> <li>2- Controlling Krafft temperature of surfactant.</li> <li>3- Physiochemical investigations on new modified hydroxyl mixed ether polymeric surfactants.</li> </ol> <p><a href="http://www.uni-Bayreuth.de">www.uni-Bayreuth.de</a></p>
1998 – 2000	<p><b>Research and Teaching Assistant</b> (during master program) at Jordan University of Science and Technology, Jordan- Irbid- Department of Applied Chemical Science. P.O.Box (3030), Irbid 22110 Jordan. Tel (00962-2) 295111, Fax: (00962-2) 295019. Mr. Abdel-Rahem was assigned to teach the following courses:</p> <ul style="list-style-type: none"> <li>- Industrial Chemistry laboratories.</li> <li>-General Chemistry laboratories.</li> <li>-Analytical Chemistry laboratories .</li> </ul> <p><a href="http://www.just.edu.jo">www.just.edu.jo</a></p>
1997-1998	<p><b>Analyst</b> at Quality Control Unit at Al-Riyedh Company for Detergent Industry, Sahab, Jordan. The work involved the routine analysis [quality assurance] of food oil, soap, and detergent industries.</p>
1996-1997	<p><b>Teacher of Chemistry</b> at the Ministry of Education, (Jordan-Irbid) Mr. Abdel-Rahem was assigned to teach the chemistry and science courses for secondary, and elementary school levels.</p> <p><a href="http://www.moe.gov.jo">http://www.moe.gov.jo</a></p>

## LIST OF PUBLICATIONS

1	2004	Jingchen Hao, Jingzheng Wang, Weimin Lie, <b>Rami Abdel-Rahem</b> and Heinz Hoffmann (Zn <sup>+2</sup> -Induced Vesicle Formation), <b>J. Phys. Chem. B</b> (2004) 108, 1168-1172. <a href="http://dx.doi.org/10.1021/jp0357368">http://dx.doi.org/10.1021/jp0357368</a>
2	2004	R. A. El-Ghazawy, <b>R. Abdel Raheem</b> , A. M. Al-Sabagh (Surface activity - thermodynamic properties and light scattering studies for some novel aliphatic polyester surfactants), <i>Polymers for Advanced Technologies</i> Volume 15, Issue 5, Date: May 2004, Pages: 244-250 <a href="http://dx.doi.org/10.1002/pat.375">http://dx.doi.org/10.1002/pat.375</a>
3	2004	A.M. Al-Sabagh, M.E. Abdul-Raouf and <b>R. Abdel-Raheem</b> , (Surface activity and light scattering investigation for some novel aromatic polyester amine surfactants), <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , Volume 251, Issues 1-3, 20 December 2004, Pages 167-174 <a href="http://dx.doi.org/10.1016/j.colsurfa.2004.07.012">http://dx.doi.org/10.1016/j.colsurfa.2004.07.012</a>
4	2005	<b>Rami Abdel-Rahem</b> , (The Influence of Hydrophobic Counterions on the Phase behaviour of Ionic Surfactants). <i>Tenside Surfactants Detergents</i> 42 (2005) 2, 95-101. <a href="http://www.tsdjournal.com/TS100241">http://www.tsdjournal.com/TS100241</a>
5	2005	<b>R. Abdel-Rahem</b> , M. Gradzielski, and H. Hoffmann( A Novel Viscoelastic System from a Cationic Surfactant and a Hydrophobic Counterion) <i>Journal of colloid and interfacial science</i> , 288, 2 , (2005), 570-582. <a href="http://dx.doi.org/10.1016/j.jcis.2005.03.040">http://dx.doi.org/10.1016/j.jcis.2005.03.040</a>
6	2006	<b>R. Abdel-Rahem</b> and H. Hoffmann (The Distinction of Viscoelastic Phases from Entangled Worm Like Micelles and of Densely Packed Multilamellar Vesicles on the Basis of Rheological Measurements) <i>Rheologica Acta</i> (2006) 45: 781-792. <a href="http://dx.doi.org/10.1007/s00397-006-0101-7">http://dx.doi.org/10.1007/s00397-006-0101-7</a>
7	2007	<b>R. Abdel-Rahem</b> , and H. Hoffmann( Novel Viscoelastic Systems from a Cationic Surfactant and a Hydrophobic Counterion: influence of surfactant chain length) <i>Journal of colloid and interfacial science</i> , Volume 312, Issue 1, 1 August 2007, Pages 146-155. <a href="http://dx.doi.org/10.1016/j.jcis.2006.09.023">http://dx.doi.org/10.1016/j.jcis.2006.09.023</a>

**Dr. Rami Abdel-Rahem, King Faisal University, College of Science, Department of Chemistry,  
Saudi Arabia, Al-Ahsa, P.O.Box: 400, (Al-Hafouf) 31982**

**Mobile Number: 00966568374784**

**Email: Shiyap@yahoo.com**

8	2007	<p><b>R. Abdel Rahem</b>, Formation of Multilamellar Vesicles in the Systems of Decyltrimethylammonium hydroxides/2-hydroxy 1-carboxynaphthoate and Octyltrimethylammonium hydroxides/2-hydroxy 1 carboxynaphthoate, , Tenside Surfactants Detergents 2007/03, Page 168-175.</p> <p><a href="http://www.tsdjournal.com/TS100337">http://www.tsdjournal.com/TS100337</a></p>
9	2007	<p><b>R. Abdel-Rahem</b> and J. Al-Hawarin, Dissolution Rate of Sodium Fatty Alcohol Sulfate FAS – Surfactants, Tenside Surfactants Detergents 2007/05, Page 260-265.</p> <p><a href="http://www.tsdjournal.com/TS100345">http://www.tsdjournal.com/TS100345</a></p>
10	2008	<p><b>R. Abdel-Rahem</b> and A. S. Ayesh, Surface Activity of Newly Nonionic Surfactants at Air/Water Interface and their Interaction with Clay and Teflon, Tenside Surfactants Detergents 2008/03, Page 137-143.</p> <p><a href="http://www.tsdjournal.com/TS100371">http://www.tsdjournal.com/TS100371</a></p>
11	2008	<p><b>R. Abdel-Rahem</b>, The influence of hydrophobic counterions on micellar growth of ionic surfactants, Advances in Colloid and Interface Science, Volume 141, Issues 1-2, 1 September 2008, Pages 24-36.</p> <p><a href="https://doi.org/10.1016/j.cis.2008.02.002">doi:10.1016/j.cis.2008.02.002</a></p>
12	2008	<p>Ayman S. Ayesh and <b>Rami A. Abdel-Rahem</b>, Optical and Electrical Properties of Polycarbonate/MnCl<sub>2</sub> Composite Films, Journal of Plastic Film and Sheeting, Vol. 24, No. 2, 109-124 (2008)</p> <p><a href="https://doi.org/10.1177/8756087908094854">doi: 10.1177/8756087908094854</a></p>
13	2009	<p><b>R. Abdel-Rahem</b> and A. S. Ayesh , Physiochemical Properties of Hydroxy Mixed Ether HME<sub>n</sub> Surfactants and their Interaction with Sodium Dodecyl Sulfate SDS, Tenside Surfactants Detergents 2009/02, Page 105-111,</p> <p><a href="http://www.tsdjournal.com/TS110013">http://www.tsdjournal.com/TS110013</a></p>
14	2009	<p><b>Rami Abdel-Rahem</b>, Synergism in Mixed Anionic–Amphoteric Surfactant Solutions: Influence of Anionic Surfactant Chain Length. Tenside Surfactants Detergents, 2009/05, Page 298-305</p> <p><a href="http://www.tsd-journal.com/TS110035">http://www.tsd-journal.com/TS110035</a></p>

15	2010	<p><b>Ayman S. Ayesh and <u>Rami Abdel-Rahem</u></b>, Effect of <math>Ba_{0.9725}(Ti_{0.9}Sn_{0.1})O_3</math> Ceramic Doping on the Optical, Thermal and Dielectric Properties of Polycarbonate Host, <a href="#">Bulletin of Materials Science</a>, <b>Volume 33, Number 5</b> (2010), 589-595.  <b>DOI: 10.1007/s12034-010-0090-0</b></p>
16	2010	<p>H. Hoffmann and <b><u>R. Abdel-Rahem</u></b>, Influence of co-solvent on the rheological behavior of aqueous viscoelastic surfactant systems, <b>Colloid Polym Sci</b> (2010) 288:603–612.  <a href="#">DOI 10.1007/s00396-010-2196-8</a></p>
17	2011	<p><b><u>R. Abdel-Rahem</u></b>, Effect of Glycerol on the Swelling of Multilamellar Vesicles Composed of Cetyltrimethylammonium Bromide and Sodium Hydroxy-naphthoate, <b>Journal of Dispersion Science and Technology</b>, Volume 32, Issue 6, 2011 784-794  <a href="#">DOI: 10.1080/01932691.2010.488131</a></p>
18	2011	<p><b><u>Rami Abdel-Rahem</u></b>, Ayman Ayoub, Jibril Al-Hawarine and Ayman Ayesh, The Influence of Surfactant's Synergism on the Solubilization of Some Fluorescent Compounds, <b>Tenside Surfactants Detergents</b>. 48 (2011) 6, 445-451.  <a href="http://www.tsd-journal.com/TS110151">http://www.tsd-journal.com/TS110151</a></p>
19	2012	<p>Jibril Al-Hawarin, Ayman S. Ayesh and <b><u>Rami A. Abdel-Rahem</u></b>, Dielectric and Thermal Properties of PEO Doped with Cadmium Chloride salt, <b>Chinese Journal of Polymer Science</b>, Volume 30, Number 2 (2012), 143-151.  <b>DOI: 10.1007/s10118-012-1106-6</b></p>
20	2012	<p><b><u>Rami A. Abdel-Rahem</u></b>, Micellar Parameters in Solutions with Cationic Surfactants and N,N-dimethyldodecylamine oxide: Influence of Cationic Surfactants Chain Length, <b>Chemical and Engineering Data</b> (2012) 57, 957–966  <a href="http://dx.doi.org/10.1021/je201107a">dx.doi.org/10.1021/je201107a</a></p>

21	2012	<b><u>Rami A. Abdel-Rahem</u></b> , 1,3-butanediol as a co-solvent for the surfactant solutions, Colloid Polym Sci (2012) 290:907–917 <b>DOI 10.1007/s00396-012-2603-4</b>
22	2013	<b><u>Rami Abdel-Rahem</u></b> and Jibril Al-Hawarin, Rheological Investigations on the Viscoelastic Properties of alkyimethylammonium 2-hydroxy-1-carboxy-naphthoate and 2-hydroxy-1-carboxy-naphthoate in aqueous Solutions, Journal of Dispersion Science and Technology(2013) 34:55–63. <b>DOI: 10.1080/01932691.2011.646619</b>
23	2013	<b><u>Rami Abdel-Rahem</u></b> , The Adsorption of Newly Hydroxyl Mixed Ether Nonionic Polymeric Surfactants at Air/Water and Solid/Water Interfaces: Influence of Surfactant Molecular Structure, Journal of Surfactants and Detergents ( 2013), Volume 16, Issue 1, pp 123-130 <b>DOI: 10.1007/s11743-012-1361-0</b>
24	2013	<b><u>Rami Abdel-Rahem</u></b> , The Influence of Glycerol Addition and Temperature on the Phase Behavior and Micellization of CTAB and SDS in Aqueous Solutions, <b>accepted in Journal of Dispersion Science and Technology</b>
25	2013	<b>Rami A. Abdel-Rahem, Martin Reger, Matthias Hloucha and Heinz Hoffmann</b> , Rheology of Aqueous Solutions Containing Texapon, Betaine and Microemulsion: Influence of Co-surfactant and Salt <b>accepted in Journal of Dispersion Science and Technology</b>
26	2013	<b><u>Rami A. Abdel-Rahem</u></b> Influence of 1,3-Butanediol on the of Viscoelasticity of surfactant solutions, submitted to <b>Journal of Surfactants and Detergents</b>
27	2013	<b><u>Rami Abdel-Rahem</u></b> , Faisal al-Odail and Alla El-Shafi, Corrosion of Al in Acidic Solutions Containing Single and Mixed Micelles,in preparation



POSTERS	
<b>2003</b>	Poster in Bayreuth university " Phase studies between alkyltrimethyl ammonium hydroxides and 2-hydroxy-1-naphtioic acids"
<b>2002</b>	Poster in Heidelberg university " Phase studies between Cetyltrimethyl ammonium hydroxide and various hdroxy-naphtioic Acids"
<b>2013</b>	Poster in King Faisal University (Faculty of Science Open Day) " Effect of Glycerol on the Swelling of Multilamellar Vesicles Composed of Cetyltrimethylammonium Bromide and Sodium Hydroxy-naphthoate "

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### TECHNIQUES

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- Electron Microscopy:** Preparation the liquid samples for transmission electron microscopy (TEM) using freeze fracture and cryogenic temperature methods (FF and Cryo-TEM).
  - Dynamic and Static Light Scattering.**
  - Rheology:** Using double gap and cone plate rheometers.
  - Polarized and Differential Microscopy.**
  - Differential Scanning Calorimetry (DSC).**
  - Small Angle Neutron Scattering (SANS).**
  - Surface Tension, Interfacial Tension, and Contact Angle Methods.**
  - Theoretical background and short experience on:** High Performance Liquid Chromatography (**HPLC**), Gas Chromatography (**GC**), Infra Red and Ultra Violate Spectroscopy (**IR** and **UV**), Atomic Force Microscopy (**AFM**), Gel permission Chromatography (**GPC**), Mass Spectroscopy, Nuclear Magnetic Resonance (**NMR**).
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<b>Projects</b>		
<b>Place</b>	<b>Title</b>	<b>Authors</b>
Germany , Bayreuth "1/8/2008-30/9/2008"	Phase behavior of silicon oil/surfactant mixtures.	<u>Rami Abdel-Rahem</u> and Heinz hoffmann
Germany , Bayreuth 1/8/2004-30/9/2004	Phase behavior of surfactant mixtures	<u>Rami Abdel-Rahem</u> and Heinz Hoffmann
Kingdom of Saudi Arabia, King Faisal University 1/2/2010-1/2/2011	The Influence of Surfactants Synergism on the Solubility of low-soluble Dyes and following their Complete Solublilization Using Spectroscopic Fluorescence Method".	Rami Abdel-Rahem
Kingdom of Saudi Arabia, King Faisal University 1/2/2011-until now	Surfactants as corrosion Inhibitors'	Faisal Al-Odail Rami Abdel-Rahem Alla Elshafi

<b>N.</b>	<b>COURSES I HAVE TAOUGHT</b>	<b>N. of Semesters</b>
<b>1</b>	<b>Chemistry of Colloids, Chem 426</b> Department of Chemistry, College of Science, King Faisal University	<b>3</b>
<b>2</b>	<b>Quantum Chemistry, Chem 427</b> Department of Chemistry, College of Science, King Faisal University.	<b>4</b>
<b>3</b>	<b>Physical Chemistry, Chem 222</b> Department of Science, College of Teachers, King Faisal University.	<b>12</b>
<b>4</b>	<b>Physical Chemistry, Chem 242</b> College of Engineering , King Faisal University The course is taught in English	<b>1</b>

[11] Curriculum Vita of Dr. Rami Abdel-Rahem (Associate Professor of Physical Chemistry)

5	<b>General Chemistry I, Chem 140</b> College of Engineering , King Faisal University The course is taught in English	12
6	<b>General Chemistry II, Chem 111</b> Department of Chemistry, College of Science, King Faisal University	1
7	<b>Graduation Project , Chem</b> Department of Chemistry, College of Science, King Faisal University	1
8	<b>General Chemistry I, Chem 101</b> Department of Chemistry, College of Science, King Faisal University	5
9	<b>General Chemistry II, Chem 142</b> College of Engineering , King Faisal University The course is taught in English	7
10	<b>General Chemistry I, Chem 140</b> College of Veterinary Science , King Faisal University The course is taught in English	2
11	<b>Quantum Chemistry and Molecular Spectroscopy</b> Department of Chemistry, College of Science, Elmargeb University (Libya).	2
12	<b>Electrochemistry</b> Department of Chemistry, College of Science, Elmargeb University (Libya).	3
13	<b>Chemical Kinetics</b> Department of Chemistry, College of Science, Elmargeb University (Libya).	2
14	<b>Chemical Thermodynamics</b> Department of Chemistry, College of Science, Elmargeb University (Libya).	3

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**Dr. Rami Abdel-Rahem, King Faisal University, College of Science, Department of Chemistry,**  
**Saudi Arabia, Al-Ahsa, P.O.Box: 400, (Al-Hafouf) 31982**

**Mobile Number: 00966568374784**

**Email: Shiyap@yahoo.com**

15	<b>Colloids and Phase Equilibrium</b> Department of Chemistry, College of Science, Elmargeb University (Libya).	1
16	<b>General Chemistry</b> Department of Chemistry, College of Science, Elmargeb University (Libya).	2
17	<b>Graduation Project</b> Department of Chemistry, College of Science, Elmargeb University (Libya).	2
18	<b>Physical Chemistry for Engineering</b> Department of Chemistry, College of Science, Elmargeb University (Libya).	4
19	<b>Practical General Chemistry</b> Department of Chemistry, College of Engineering, King Faisal University. .(Teaching in English language)	1
20	<b>Practical General Chemistry I</b> Department of Chemistry, College of Medicine, King Faisal University. .(Teaching in English language)	1
21	<b>Practical General Chemistry II</b> Department of Chemistry, College of Science, King Faisal University.	1
22	<b>Analytical Chemistry I</b> Department of Science, College of Teachers, King Faisal University.	1
23	<b>Analytical Chemistry for Laboratory Students</b> Department of Science, College of Teachers, King Faisal University.	1
24	<b>General Chemistry for Science and Mathematics</b> Department of Science, College of Teachers, King Faisal University.	2

[13] Curriculum Vita of Dr. Rami Abdel-Rahem (Associate Professor of Physical Chemistry)

25	<b>General Chemistry for Art Students</b> Department of Science, College of Teachers, King Faisal University.	4
26	<b>Physical Chemistry for Laboratory Students</b> Department of Science, College of Teachers, King Faisal University.	8
27	<b>Chemistry Lab Techniques for Laboratory Students</b> Department of Science, College of Teachers, King Faisal University.	2
28	<b>Practical Field Supervision for Laboratory Students</b> Department of Science, College of Teachers, King Faisal University.	8

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### REFERES

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•**Prof. Dr. Heinz Hoffmann:** Bayreuther Zentrum für Kolloide und Grenzfläche, Gottlieb-Keim-Str. 60, 95448 Bayreuth. Tel: 0049-(0)921-50736-135 oder 136, Fax: 0049-(0)921- 50736-139. Email: [Heinz.Hoffmann@nmbgmbh.de](mailto:Heinz.Hoffmann@nmbgmbh.de)

•**Dr.Bassam Bitar:** Jordan University of Science and Technology, Department of Applied Chemical Science, Irbid, Jordan. Email: [Bbitar.alfa@batelco.jo](mailto:Bbitar.alfa@batelco.jo)

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**Computer skills:** Basic, Fortran and Microsoft office

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**Hobbies:** Swimming, Poem

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**Dr. Rami Abdel-Rahem, King Faisal University, College of Science, Department of Chemistry,**  
**Saudi Arabia, Al-Ahsa, P.O.Box: 400, (Al-Hafouf) 31982**

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