

CURRICULUM VITAE

(Updated on July 29, 2021)

Dr. Shamsad Ahmad

Professor

Civil & Environmental Engineering Department

King Fahd University of Petroleum & Minerals (KFUPM), **QS World University Rankings: 163 (in 2022)**

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Research Gate: https://www.researchgate.net/profile/Shamsad_Ahmad

Google Scholar: <https://scholar.google.com/citations?user=DjoEntQAAAAJ&hl=en&oi=ao>

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=7401992928>

International Recognition: Listed among top 2% Scientists in World in the area of "Building & Construction", Source: Stanford University, USA, 2020



Summary

Education:

- **PhD (Civil Engineering)** from Indian Institute of Technology (IIT), Delhi, India, 1995-1996 (got IITD scholarship)
QS World University Rankings: 185 (in 2022)
- **MTech (Civil & Environmental Engineering)** from Visvesvaraya National Institute of Technology (VNIT), Nagpur, India, 1989 (got scholarship by qualifying Graduate Aptitude Test in Engineering (GATE) conducted by IIT Kanpur in 1988)
- **BE (Civil Engineering)** from Rashtrasant Tukadoji Maharaj Nagpur University, (formerly Nagpur University), India, 1988

Specialization:

- **Smart structural materials and methods for construction, repairing and strengthening-development, performance evaluation, and applications including 3D concrete printing**
- **Sustainability of concrete construction through:**
 - **Durability of concrete structures exposed to aggressive conditions**
 - **Utilization of natural and industrial solid wastes** as supplementary cementitious materials/aggregates in green concrete and as stabilizing agents in Stabilization/Solidification treatment of contaminated soils
 - **Utilization of recycled aggregates** in concrete production
 - **Utilization of captured CO₂** for accelerated curing of concrete
- **Applications of analysis of variance (ANOVA), optimization techniques, and Finite Element Analysis (FEA) using ABAQUS**

Experience (29 years):

- **Professor** at KFUPM, Saudi Arabia, from Dec 23, 2014 to present
- **Associate Professor** at KFUPM from Jul 1, 2008 to Dec 22, 2014
- **Reader (Associate Professor)** at JMI, New Delhi, India, from Aug 3, 1998 to Aug 14, 2001
- **Assistant Professor** at KFUPM, from Mar 15, 2003 to Jun 30, 2008
- **Lecturer** at KFUPM, from Aug 16, 2001 to Mar 14, 2003
- **Lecturer** at JMI, from Aug 23, 1995 to Aug 2, 1998
- **Lecturer** at R.K.N. Engineering College, Nagpur, India, from Jan 4, 1990 to May 23, 1990
- **Lecturer-B (Doctoral Research Scholar)** at IIT Delhi, India, from Jul 29, 1991 to Aug 22, 1995

Teaching:

- Taught several courses: structural mechanics, structural materials, structural analysis, structural design, durability of concrete structures, testing and evaluation of concrete structures, water distribution systems, industrial water pollution control, and applications of optimization techniques to Civil & Env. Eng. systems
- Delivered **26** lectures in 11 Short Courses
- Developed **two** online courses (e-courses)
- Supervised **69** Coop Training Reports & Senior Design Projects

Research:

- **27 Funded Research Projects** as Principal Investigator/Co-Investigator
- **77 MS and PhD Theses** as Advisor/Co-Advisor/Member/Examiner
- **133 Research Publications: 72 in Journals**, 39 in Proceedings of conferences, and 22 Refereed Technical Reports
- **2 Chapters in 2 different Books** published by Elsevier & Springer Nature
- **Citations: 2333** and **h-index: 22 (Google Scholar)**
1551 and **h-index: 18 (Scopus)**
- **Research Gate Score: 29.65 (>87.5% of ALL RG members'**; Citations- **1724**; Total Research Interest- **1275**; Recommendations- **150**; Reads-**29897**)
- **Reviewed 207** research papers/proposals/final reports
- **Associate Editor for AJSE-Civil Engineering** (Thomson Reuters's ISI-Indexed Journal-IF = 2.334)
512 papers handled

Administrative Services:

- Involvement in various standing and ad-hoc Committees of Department, College, and University
- Working as Departmental Graduate Coordinator continuously since 2009 and Chairman of the Departmental Graduate Committee since 2013 providing full support to run the CEE Graduate Programs (MS & PhD programs) on day-to-day basis
- Provided full support in writing the ABET report for the CEE Department (Accreditation year 2016)

Awards/Prizes/Certificates of Appreciation:

- Excellence in Teaching Award of College of Engineering Sciences, KFUPM, 2004-2005
- Certificate of Appreciation in recognition of Outstanding Students' Advising in 2019
- Excellence in Research Award of KFUPM (**two times**), in 2011 and 2016
- Excellence in Long Service Award of KFUPM during 15 years awarded in 2015-2016
- Best Service Award of College of Engineering Sciences, KFUPM, 2009-2010
- Prize in recognition of my paper selected as one of the top five research papers in a Symposium organized by the Ministry of Municipality and Rural Affairs, Riyadh, Saudi Arabia, 2013
- Highly Commended Paper Award of Anti-Corrosion Methods and Materials, an ISI Journal of Emerald Group Publishing Limited, UK, 2015
- Recognized Reviewer Status Awards by Elsevier.

'Outstanding: A+ rating' in annual evaluation (overall-teaching, research, and admin services) continuously since 2006

Abstracting and Indexing Details of the Papers Published in Journals: Total 72

Sl. No	Journal	Abstracting and Indexing	JCR data for the Year 2020-2021 https://jcr.clarivate.com		Total papers in the Journal
			Impact Factor	Ranking (Quartile)	
1	Composites Part B-Engineering (UK)	SCI	9.078	Q1	1
2	Cement & Concrete Composites (UK)	SCI	7.586	Q1	4
3	Corrosion Science (UK)	SCI	7.205	Q1	1
4	Chemical Record (Germany)	SCI	6.771	Q1	1
5	Construction and Building Materials (UK)	SCI	6.141	Q1	8
6	Composite Structures (UK)	SCI	5.407	Q1	1
7	Journal of Building Engineering (Netherlands)	SCI	5.318	Q1	1
8	Computers and Concrete (South Korea)	SCI	3.948	Q1	1
9	Progress in Nuclear Energy (UK)	SCI	2.256	Q1	1
10	Environmental Science and Pollution Research (Germany)	SCI	4.223	Q2	1
11	Case Studies in Construction Materials (UK)	SCI	3.328	Q2	1
12	Advances in Concrete Construction (South Korea)	SCI	3.214	Q2	2
13	Journal of Materials in Civil Engineering (American Society of Civil Engineers, USA)	SCI	3.266	Q2	1
14	Structural Concrete (Germany)	SCI	3.131	Q2	1
15	Structures (Netherlands)	SCI	2.983	Q2	1
16	European Journal of Environmental and Civil Engineering (France)	SCI	2.516	Q2	3
17	Magazine of Concrete Research (UK)	SCI	2.503	Q2	1
18	International Journal of Concrete Structures and Materials (South Korea)	SCI	2.483	Q2	1
19	Arabian Journal for Science and Engineering (KSA)	SCI	2.334	Q2	9
20	Scientific World Journal (USA)	SCI	1.219	Q2	4
21	Journal of Material Cycles and Waste Management (Japan)	SCI	2.863	Q3	1
22	Arabian Journal of Geosciences (KSA)	SCI	1.827	Q3	1
23	ACI Materials Journal (American Concrete Institute, USA)	SCI	1.802	Q3	3
24	Advances in Cement Research (UK)	SCI	1.791	Q3	3
25	Journal of Advanced Concrete Technology (Japan Concrete Institute, Japan)	SCI	1.768	Q3	1
26	ACI Structural Journal (American Concrete Institute, USA)	SCI	1.744	Q3	1
27	Journal of Testing and Evaluation (American Society for Testing and Materials, USA)	SCI	1.264	Q3	7
28	Anti-Corrosion Methods and Materials (UK)	SCI	1.117	Q3	3
29	Journal of the South African Institution of Civil Engineering (South Africa)	SCI	0.489	Q4	2
30	International Journal of Corrosion (UK)	SCI	0.220	Q4	1
31	Journal of Structural Engineering (India)	Scopus	-	-	2
32	Indian Concrete Journal (India)	Scopus	-	-	1
33	Tikrit Journal of Engineering Sciences (Iraq)	Google Scholar	-	-	1
34	Journal of Building Technology in Arabic (KSA)	Arabic	-	-	1
SCI (ISI) : Sc. Citation Index (https://jcr.clarivate.com) : Web of Sc. (ISI) Core Collection (https://mjl.clarivate.com/home)					

Total (Q1): 19

Total (Q2): 25

Total (Q3): 20

Total (Q4): 3

1. GENERAL

1.1 Personal

- Name** : Shamsad Ahmad
- Date of Birth** : June 15, 1968
- Place of Birth** : District Kushi Nagar of the State of Uttar Pradesh, India
(Settled in New Delhi since 1990)
- Nationality** : Indian
- Marital Status** : Married, three children (Naushad, Sultan, and Shazia)
- Countries visited:** USA, Germany, Australia, Netherlands, Hungary, Singapore, Malaysia, Saudi Arabia, Oman, Bahrain, and UAE
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1.2 Education

- 1991-1995** **Doctor of Philosophy** in Civil Engineering, Indian Institute of Technology (IIT), Delhi, India
Title of Thesis: "Role of main factors in the rebar corrosion and service life of chloride bearing R.C. structure under normal exposure",
- 1988-1989** **Master of Technology** in Civil Engineering including Applied Mechanics (Environmental Engineering), Visvesvaraya National Institute of Technology (VNIT), Nagpur, India.
Title of Thesis: "Effect of environment on durability of concrete",
- 1988** **GATE** (Graduate Aptitude Test in Engineering), a National Qualifying Test for admission to Master Programs in Engineering & Sciences in India, conducted by IIT Kanpur.
- 1984-1988** **Bachelor of Engineering** in Civil Engineering, Rashtrasant Tukadoji Maharaj Nagpur University, (formerly known as Nagpur University), Nagpur, India.

1.3 Specialization:

- **Smart structural materials and methods for construction, repairing and strengthening-development, performance evaluation, and applications including 3D concrete printing**
- **Sustainability of concrete construction through:**
 - **Durability of concrete structures exposed to aggressive conditions**
 - **Utilization of natural and industrial solid wastes** as supplementary cementitious materials and aggregates in green concrete and as stabilizing agents in Stabilization/Solidification treatment of contaminated soils
 - **Utilization of recycled aggregates** in concrete production
 - **Utilization of captured CO₂** for accelerated curing of concrete

- **Applications of analysis of variance (ANOVA), optimization techniques, and Finite Element Analysis (FEA) using ABAQUS**

1.4 **Employment: (Total 29+ years of teaching and research experience)**

(I) As Full Professor:

December 23, 2014 to present: Full Professor
Civil & Environmental Engineering Department,
King Fahd University of Petroleum & Minerals
(KFUPM), Dhahran, Saudi Arabia

(II) As Associate Professor/Reader (9½ years):

July 1, 2008 to December 22, 2014: Associate Professor
Civil & Environmental Engineering Department,
KFUPM, Dhahran, Saudi Arabia

August 3, 1998 to August 14, 2001: Reader (Associate Professor)
Civil Engineering Department,
Jamia Millia Islamia, New Delhi, India

(III) As Assistant Professor (5¼ years):

March 15, 2003 to June 30, 2008: Assistant Professor
Civil & Environmental Engineering Department,
KFUPM, Dhahran, Saudi Arabia

(IV) As Lecturer (5 years):

August 16, 2001 to March 14, 2003: Lecturer
Civil & Environmental Engineering Department
KFUPM, Dhahran, Saudi Arabia

August 23, 1995 to August 2, 1998: Lecturer
Civil Engineering Department
Jamia Millia Islamia, New Delhi, India

January 4, 1990 to May 23, 1990: Lecturer
Civil Engineering Department
R.K.N. Engineering College, Nagpur, India

(V) As Lecturer-B (4 years):

July 29, 1991 to August 22, 1995: Doctoral Research Scholar
Civil Engineering Department
I.I.T., Delhi, India

1.5 **Training:**

Attended Entrepreneurial Refresher Course *Surface Engineering for Corrosion Resistance Applications* from October 30, 2000 to November 4, 2000, conducted by the Central Electrochemical Research Institute (CECRI), Karaikudi, Tamilnadu, India.

1.6 Scholarships and Awards

- All India “**Graduate Aptitude Test in Engineering (GATE) Scholarship**”, awarded by the Ministry of Human Resources Development, Government of India, New Delhi, for pursuing Master Studies during 1988-1989.
- “**Doctoral Research Scholarship**”, awarded by Indian Institute of Technology (**I.I.T.**), New Delhi, for pursuing PhD Studies during 1991-1995.
- “**Excellence in Teaching Award**” of College of Engineering Sciences, King Fahd University of Petroleum & Minerals (KFUPM), Dhahran, Saudi Arabia, 2005.
- “**Excellence in Service Award**” of College of Engineering Sciences, King Fahd University of Petroleum & Minerals (KFUPM), Dhahran, Saudi Arabia, 2010.
- “**Excellence in Research Award 2010-11**” of King Fahd University of Petroleum & Minerals (KFUPM), Dhahran, Saudi Arabia.
- **Received “Prize in Recognition of my Paper”** selected as one of the top 5 research papers in a Symposium organized by the Ministry of Municipality and Rural Affairs, Riyadh, KSA, 2013
- “**Highly Commended Paper**” Award for my paper titled “An experimental study on correlation between concrete resistivity and reinforcement corrosion rate” published in *Anti-Corrosion Methods and Materials*, an ISI Journal of Emerald Group Publishing Limited, UK, 2015.
- “**Recognized Reviewer Status**” Award by Elsevier, 2015.
- “**Excellence in Research Award 2015-16**” of King Fahd University of Petroleum & Minerals (KFUPM), Dhahran, Saudi Arabia.
- “**Excellence in Long Service Award of KFUPM**” during 15 years awarded in the academic year 2015-2016.

1.7 Expertise in Information Technology:

Efficient in making search on the Internet and using the MS Word, MS PowerPoint, MS Excel, and WebCT for academic and research purposes.

Attended following IT related workshops:

- Training course on “*Advanced MS Windows*” organized by the ITC, KFUPM, September 4 to 8, 2004
- Training workshop on “*Introduction to WebCT*”, organized by the DAD, KFUPM, March 7 & 9, 2004.
- Training workshop on “*Publishing Content and Quizzes in WebCT*”, organized by the DAD, KFUPM, November 20 & 22, 2005

Contributed in the following IT related projects and committees:

- Principal-Investigator of the Internet Open Access Initiatives Project: Phase II, funded by the DAD, KFUPM, 2008-2009
- Co-Investigator of the Internet Open Access Initiatives Project: Phase I and III, funded by the DAD, KFUPM, 2008 and 2009.
- Co-Investigator of the Authoring Online Course Grants Project for developing Statics (CE 201) Course Online, funded by the DAD, KFUPM, 2007.
- Principal Investigator of the Authoring Online Course Grants Project for developing Structural Materials (CE 303) Course Online, funded by the DAD, KFUPM, 2009.
- Chairman of the Departmental IT Committee, CE Dept., KFUPM, Sep. 2009 to 2011.

2. TEACHING

2.1 Courses Taught

Undergraduate Courses

1. Statics
2. Structural Mechanics/Mechanics of Materials/Strength of Materials
3. Structural Analysis
4. Advanced Structural Materials
5. Design of Reinforced Concrete Structures
6. Design of Steel Structures
7. Water Distribution Systems (Analysis and Design)

Graduate Courses

1. Concrete Materials
2. Evaluation and Testing of Concrete Structures
3. Corrosion in Reinforced Concrete
4. Industrial Water Pollution Control
5. Optimization Techniques (applications to Civil & Environmental Engineering)

2.2 Course Coordination/Option Convening

Worked as the Convener of the Structures Option during all academic years effective 2006-2007 to till date. As a convener of the Structure Options, organized meetings with the faculty members of the Structures Group and finalized the list of structural engineering courses to be taught in each semester.

2.3 Course and Lab Teaching Facilities Development

2.3.1 Development and Updating of Course Materials and Developing Courses Online

1. Developed the course outline and teaching materials for a graduate course (CE 504: Corrosion in Reinforced Concrete) which was run for the first time in the CE Department by me in 2004. During the teaching of this course, I collected state-of-the-art course materials from different sources including internationally reputed journals, Internet, and acquired a latest textbook on reinforcement corrosion (published in 2004) through the Central Library of KFUPM. All the collected materials were compiled and handouts and class lectures were prepared. Design of reinforced concrete members considering the durability factor, mainly reinforcement corrosion, was included to fulfill the “design” requirements of the course. Four graduate students did this course and they found this course very useful from practical application point of view.
2. Prepared the Syllabus for an undergraduate course (CE 303: Structural Materials) according to the ABET requirements, which included various components, such as course description, course objectives, learning outcomes, contribution of course to meeting the professional component, and relationship of course to program outcomes.
3. Developed the Course CE 201 (Statics) Online, funded by the Deanship of Academic Development, KFUPM, 2007.
4. Developed the Course CE 303 (Structural Materials) Online, funded by the Deanship of Academic Development, KFUPM, 2011.

2.3.2 Development of New Courses

1. Developed the Course CEE 462 (Advanced Building Materials and Systems) for the Interdisciplinary Bachelor Concentration (CX) Program titled “Sustainable and Smart Buildings”, offered by Architectural Engineering Department, College of Environmental Design, KFUPM. Role: Member, 2020-2021.

2.3.3 Development of Lab Facilities

1. Updated the Laboratory Manual for the course CE 303 (Structural Materials) incorporating the recent developments in the field of civil engineering materials.
2. Actively participated in developing the following laboratory facilities:
 - i. Acquired an experimental set-up for measurement of corrosion of steel in concrete. This set-up is being extensively utilized by undergraduate and graduate students and for departmental research.
 - ii. Acquired set-ups for preparing and testing self-compacting concrete.
 - iii. Developed a set-up for measuring permeability of concrete based on the Darcy’s principle.
 - iv. Acquired set-up for actual and virtual experiments related to analysis of trusses, beams and frames.
 - v. Acquired field machine for measuring reinforcement corrosion rate, and ground penetrating radar.

2.4 Development of New Academic Programs

1. Developed the Interdisciplinary Bachelor Concentration (CX) Program titled “Sustainable and Smart Buildings”, offered by Architectural Engineering Department, College of Environmental Design, KFUPM. Role: Member, Expected starting academic year 2021-2022.
2. Developed the Professional Master (MX) Program titled “Master of Advanced Materials for Sustainable and Durable Concrete Structures”, offered by Civil & Environmental Engineering Department, College of Engineering, KFUPM. Role: Team Leader, Expected starting academic year 2021-2022.

2.5 Senior Design Project and Co-operative Training Report Supervision (Total 69)

- Senior Design Projects: **40**
- Co-operative Training Reports: **29**

[\[Detail list is presented in Appendix-1\]](#)

2.6 Students’ Academic Advising

Advised on an average 15 to 20 undergraduate and graduate students every semester

2.7 Lectures Delivered in Short Courses and Training Programs (Total 26)

[\[Detail list is presented in Appendix-2\]](#)

3. RESEARCH

3.1 Research Interests

- **Smart structural materials and methods for construction, repairing and strengthening-development, performance evaluation, and applications including 3D concrete printing**
- **Sustainability of concrete construction though:**
 - **Durability of concrete structures** exposed to aggressive conditions with emphasis on reinforcement corrosion (*monitoring, diagnosis, service life prediction, prevention and protection*)
 - **Utilization of natural and industrial solid wastes** as supplementary cementitious materials/aggregates in green concrete and as stabilizing agents in S/S treatment of contaminated soils
 - **Utilization of recycled aggregates** in concrete production
 - **Utilization of captured CO₂** for accelerated curing of concrete
- **Applications of analysis of variance (ANOVA), optimization techniques, and Finite Element Analysis (FEA) using ABAQUS**

3.2 Research accomplishments

- **Funded Research Projects** **Total: 27** [Detail list in Appendix-3](#)
- **MS and PhD Theses** **Total: 77** [Detail list in Appendix-4](#)
- **Papers in Journals** **Total: 72** [Detail list in Appendix-5](#)
- **Papers in Conference Proceedings** **Total: 39** [Detail list in Appendix-5](#)
- **Refereed Technical Reports** **Total: 22** [Detail list in Appendix-5](#)
- **Book Chapter Publications** **Total: 02**

1. A Chapter titled “Accelerated Carbon Dioxide Sequestration” of a Book titled “Carbon Dioxide Sequestration based Cementitious Construction Materials”, **published by Elsevier (indexed in Scopus)**
2. A Chapter titled “Utilization of Limestone Powder and Metakaolin as Mineral Fillers in High-Performance Self-Compacting Concrete” of a Book titled “Calcined Clays for Sustainable Concrete”, **published as a part of RILEM Bookseries by Springer Nature (indexed in Scopus)**

3.3 Citations and research scores till date

- **Google Scholar:** 2333 citations and *h*-index: 22
- **Scopus:** 1551 citations and *h*-index: 18
- **Research Gate:** (i) Score: **29.65** (> **87.5% of Research Gate Members'**), (ii) Citations: **1724**, (iii) Total Research Interest: **1275**, (iv) Recommendations: **150**, and (v) Reads: **29897**

3.4 Professional Activities

Conference organization

- *Member, Steering Committee of the International Conference on New Challenges for Civil Engineers of Developing Countries in the 21st Century*, 29 February, 1, 2 March, 1996, Civil Engineering Department, Jamia Millia Islamia, New Delhi, India.
- Actively contributed in organizing the 11th Arab Structural Engineering Conference organized by Civil Engineering Department, KFUPM, Dhahran, Saudi Arabia, 25-27 October, 2009. Worked as a member in one of the organizing committees and chaired a session.

Technical conferences, workshops, and symposiums attendance and presentations

- Attendance with Presentation: **27** Attendance without Presentation: **32**

[\[Detail list is presented in Appendix-6\]](#)

Editorial Experience

- *Associate Editor* for Arabian Journal of Science and Engineering (AJSE)-Civil Engineering (an ISI-Indexed Journal with an **Impact Factor of 1.711**)
- *Reviewer* of Research Papers, Research Proposals, Research Reports, Program Accreditation Reports: **Total 189** [\[Detail list is presented in Appendix-7\]](#)

4. ADMINISTRATIVE SERVICES

In spite of very busy schedules for achieving the teaching and research targets, gave equal importance to the administrative services for developing skills required to manage the resources essential for excellence and high productivity of an institution for teaching and research. Played a leadership role in numerous committees formed at Department, College, and University levels to address the issues of teaching, research, development of new courses, teaching materials and laboratory facilities, and safety & security. Also involved in ABET accreditation of the Department, and social, community and other activities such as public seminars. [\[Detail list is presented in Appendix-8\]](#)

The **major administrative achievements** are summarized below.

- ***Serving as a Graduate Coordinator and Graduate Committee Chairman*** of the Civil & Environmental Engineering Department continuously *since 2009*. Handled all issues concerning to the graduate students from admissions to thesis submissions. For example, assessment of applications for admission to MS and PhD programs (on an average of 100 cases every semester), review of degree plans, thesis proposals, independent research and directed research proposals and their final reports and presentations, different types of petitions filed by the students, and organizing the Orientation Seminars for newly joined Graduate Students, etc. Coordinated the Department and the Deanship of the Graduate Studies on a daily basis. Recently, took care of the revision of all CEE Graduate Programs for incorporating the new developments in Civil & Environmental Engineering. This challenging task included preparation of the draft of revision plan and its presentation in the different Committees followed by rebuttals and revisions. Now, as a result of sustained efforts, all the *revised* CEE Graduate Programs are finally approved by the University.
- ***As a Chairman of the Departmental Laboratories Committee*** updated the laboratory facilities to cater the needs of the undergraduate students for their laboratory classes and for graduate students to conduct research works related to their thesis work. Involved in procurement and installation of several state-of the art laboratory major and minor equipment. Also, helped the Department in procuring, installation and training of the different software being in use by the students and faculty.
- ***Acting as Convener of Structures and Materials option area*** continuously for more than 15 years. Contributed in the preparation of the course offering schedules for undergraduate and graduate courses of the Department. Participated in writing the Departmental Report for submissions to ABET and responded to all comments received from the ABET.
- ***Actively participated in the University Research Committee as a Member*** during one complete academic year and contributed in all affairs of the University Research Committee, including study of the reviewers' comments on research proposals, book-writing proposals, final reports of the research projects, etc., for preparing recommendations and notifications. Additionally, chaired the Research Award Committee.
- ***Actively participated in the University Faculty Affairs Committee as a Member*** during *three consecutive academic years* and evaluated the annual performance of more than 800 faculty members in terms of their teaching, research, committee works, and personal characteristics.
- ***Involved in the Academic, Administrative and Financial affairs for about 7 years as an Elected Honorary Member of the Managing Committee (Governing Body) of International Indian School, Dammam (IISD), Saudi Arabia, which has above 15,000 students and 700 teaching and administrative staff.*** Participated in the interviews conducted for the recruitments of hundreds of teachers and admin staff.

Appendix-1:

List of Senior Design Projects and Co-operative Training Reports Supervised

1. *Design of Bridge Girder using Ultra-High Performance Concrete*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2019-2020 (CE 410-Term 191 and CE 412-Term 192).
2. *Supervision of COOP Training Report on Civil Engineering Activities in Pipelines Construction*, Cooperative Training Work, KFUPM, Saudi Arabia, 2018-2019 (Term 191).
3. *Development of Optimal Printable Concrete Mixture and Structural Design of a 3D-Printed Bungalow*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2018-2019 (CE 410-Term 181 and CE 412-Term 182).
4. *Planning and Structural Design of Restaurants Complex*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2018-2019 (CE 413-Term 182).
5. *Supervision of COOP Training Report on Quality Control Aspects in Concrete Production at an Industrial Scale (Saudi Ready Mix Plant)*, Cooperative Training Work, KFUPM, Saudi Arabia, 2018-2019 (Term 182).
6. *Supervision of COOP Training Report on Civil Engineering Activities at King Abdullah Sports City (KASC), Jeddah (operated by Saudi Aramco)*, Cooperative Training Work, KFUPM, Saudi Arabia, 2018-2019 (Term 182).
7. *Supervision of COOP Training Report on Experience in ESPAC Company about Designing, Manufacturing and Installation of Autoclaved Aerated Concrete Members*, Cooperative Training Work, KFUPM, Saudi Arabia, 2017-2018 (Term 171).
8. *Design of a Hostel Building using Pre-aerated Concrete and Normal Concrete Options*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2017-2018 (CE 413-Term 171).
9. *Durability-based Design of a Reinforced Concrete Mosque under Aggressive Exposure Conditions*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2017-2018 (CE 410-Term 171 and CE 412 -Term 172).
10. *Analysis and Design of a Hospital Building*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2016-2017 (CE 410-Term 161 and CE 412 -Term 162).
11. *Design of a Hostel Building in Dirab-Riyadh using ETABS & STADD.pro with Different Steel and Concrete Grades*, Applied Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2016-2017 (CE 413- Term 161).
12. *Supervision of COOP Training Report on Experience Gained at Jeddah Tower Project*, Cooperative Training Work, KFUPM, Saudi Arabia, 2016-2017 (Term 161).
13. *Design and Analysis of Upgraded Building of KFUPM's Clinic*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2015-2016 and 2016-2017 (CE 410-Term 152 and CE 412 -Term 161).
14. *Economical Design of Structural Members of a Multistory Building*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2015-2016 (CE 410-Term 151 and CE 412 -Term 152).

15. *Design of a Residential Villa- A Comprehensive Study Considering Alternative Flooring Systems*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2014-2015 and 2015-2016 (CE 410-Term 141 and CE 412 -Term 151).
16. *Supervision of COOP Training Report on Technical Civil Engineering Support and Supervision of the Project on Replacement of High Voltage Cable at Saudi Aramco's Abqaiq Plant (Project # BI 1000-467)*, Cooperative Training Work, KFUPM, Saudi Arabia, 2015-2016 (Term 152).
17. *Supervision of COOP Training Report on Supervision of Construction under ITHRA (KACWC) Project*, Cooperative Training Work, KFUPM, Saudi Arabia, 2015-2016 (Term 151).
18. *Comprehensive Design of a Boys High School Building*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2014-2015 and 2015-2016 (CE 410-Term 142 and CE 412 -Term 151).
19. *Design of a Multi-Storey Building considering alternative Flooring Systems*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2014-2015 (CE 410-Term 141 and CE 412 -Term 142).
20. *Supervision of COOP Training Report on Construction of a Steel Structure in King Abdullah Sport City*, Cooperative Training Work, KFUPM, Saudi Arabia, 2014-2015 (Term 142).
21. *Supervision of COOP Training Report on Review of Standards, Materials Supply, Design, and Retrofitting in Saudi Aramco*, Cooperative Training Work, KFUPM, Saudi Arabia, 2014-2015 (Term 141).
22. *Supervision of COOP Training Report on Value Practices, Concrete Investigations and Repairs, and use of Post-Tensioned Slabs in Saudi Aramco*, Cooperative Training Work, KFUPM, Saudi Arabia, 2014-2015 (Term 141).
23. *Supervision of COOP Training Report on Execution of Civil Engineering Projects in Specialty Units of Different Hospitals*, Cooperative Training Work, KFUPM, Saudi Arabia, 2013-2014 (Term 132).
24. *Analysis and Design of Building # 3 at KFUPM*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2013-2014 (CE 410-Term 131 and CE 413 -Term 132).
25. *Structural Design of Multi-Storey Residential Apartments*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2013-2014 (CE 410-Term 131 and CE 412 -Term 132).
26. *Supervision of COOP Training Report on Construction Work under Knowledge Park Project of Saudi Aramco*, Cooperative Training Work, KFUPM, Saudi Arabia, 2013-2014 (Term 131).
27. *Supervision of Construction of the Clean Fuel Project of Saudi Aramco Mobil Refinery Ltd (SAMREF)*, Cooperative Training Work, KFUPM, Saudi Arabia, 2012-2013.
28. *Supervision of Construction of Foundations of a Power Plant*, Cooperative Training Work, KFUPM, Saudi Arabia, 2012-2013.
29. *Structural Design of On-ground Water Tank utilizing UHPC*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2012-2013.
30. *Design and Analysis of Reinforced Concrete Store Building using two Alternatives*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2011-2012 and 2012-2013 (CE 410 in Term 112 and CE 412 in Term 121).
31. *Reinforced Concrete Building Design and Cost Comparison*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2011-2012 and 2012-2013 (CE 411 in Term 112 and CE 413 in Term 121).

32. *Supervision of Construction of a Power Plant and Estimation of Quantities and Cost*, Cooperative Training Work, KFUPM, Saudi Arabia, 2012-2013
33. *Design of a Two-Storey Commercial Building Exposed to Harsh Environmental Conditions*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2011-2012
34. *Design and Cost Estimation of a Reinforced Concrete Residential Building*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2011-2012
35. *Design and Cost Estimation of a Three-Storey Reinforced Concrete Residential Building*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2011-2012
36. *Effect of High Temperature on Performance of Concrete*, Senior Design Project, Department of Building Engineering & Technology, College of Architecture & Planning, University of Dammam, Saudi Arabia, 2010-2011
37. *Structural Design of a Bank Building*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2010-2011.
38. *Structural Design of a Hospital Building*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2010-2011
39. *Optimum Structural Design of a Residential Building*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2010-2011
40. *Design and Cost Optimization of a Two-Storey Villa*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2009-2010
41. *Optimum Design of Steel Structures*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2009-2010
42. *Design of PVC Water Pipeline*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2009-2010
43. *Design/Site Supervision in Eamar Ready Mix Concrete Factory*, Cooperative Training Work, KFUPM, Saudi Arabia, 2008-2009
44. *Design of Gravity Retaining Walls*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2008-2009
45. *A Training on Bridge Construction*, Cooperative Training Work, KFUPM, Saudi Arabia, 2007-2008
46. *Design and Construction of International Salt Mining Establishment, Al-Jubail*, Cooperative Training Work, KFUPM, Saudi Arabia, 2007-2008
47. *Horizontal Vessel Foundation Design*, Cooperative Training Work, KFUPM, Saudi Arabia, 2007-2008
48. *Construction and Maintenance Practices in Saudi Telecom Company-Dammam*, Cooperative Training Work, KFUPM, Saudi Arabia, 2007-2008
49. *Optimum Design of Reinforced Concrete Members of a Building using Different Types of Concrete Strength*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2007-2008
50. *Material Efficient Design of Reinforced Concrete Members*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2005-2006

51. *Site Supervision and Review of Reinforced Concrete Designs*, Cooperative Training Work, KFUPM, Saudi Arabia, 2005-2006
52. *Design of Concrete Mixes-Computer Programming*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2004-2005
53. *Design of Concrete Mixes-Casting and Testing*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2004-2005
54. *Planning, Designing and Cost Estimation of Villa*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2004-2005
55. *A Study of Construction Materials*, Cooperative Training Work, KFUPM, Saudi Arabia, 2004-05
56. *Design of R.C. Members of Selected Buildings of Saudi Telecom Company*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2003-2004
57. *Design Behavior and Economical Aspects of R.C. Beams*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2003-2004
58. *Concrete Quality and Reinforced Concrete Design Practices in Saudi Telecom Company*, Cooperative Training Work, KFUPM, Saudi Arabia, 2003-2004
59. *Quality Control Testing of Concrete and its Constituents & Structural Design of Concrete Members (Rafha Municipality, Saudi Arabia)*, Cooperative Training Work, KFUPM, Saudi Arabia, 2003-2004
60. *Construction of a New Gas Oil Separation Plant (GOSP2) to the north of Al-Qatif City-Saudi Arabia*, Cooperative Training Work, KFUPM, Saudi Arabia, 2003-2004
61. *Optimum Design of Reinforced Concrete Flexural Members*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2002-2003
62. *Optimum Design of Reinforced Concrete Compression Members*, Senior Design Project, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2002-2003
63. *Concreting Practices in Saudi Electric Company-Eastern Region Branch*, Cooperative Training Work, KFUPM, Saudi Arabia, 2002-2003
64. *Production of Precast Concrete Double Tees (DT) in PREMCO Saudi Arabia*, Cooperative Training Work, KFUPM, Saudi Arabia, 2002-2003
65. *Manufacturing of Concrete Pipes in Ameron Saudi Arabia Ltd.*, Cooperative Training Work, KFUPM, Saudi Arabia, 2002-2003
66. *Design of Water Distribution Systems for a Colony*, Senior Design Project, Department of Civil Engineering, Jamia Millia Islamia, New Delhi, 1999
67. *Optimal Design of Durable Concrete Mixes*, Senior Design Project, Department of Civil Engineering, Jamia Millia Islamia, New Delhi, 1998
68. *Optimal Design of Water and Wastewater Treatment Units*, Senior Design Project, Department of Civil Engineering, Jamia Millia Islamia, New Delhi, 1997
69. *Effect of Acidic Wastewater on Mortar and Concrete*, Senior Design Project, Department of Civil Engineering, Jamia Millia Islamia, New Delhi, 1996

Appendix-2:

List of Lectures Delivered in Short Courses and Training Programs

1. Short course on *Roles of Civil Engineers in the Modern Era*, organized by Civil Engineering Club, KFUPM, in association with the American Concrete Institute KFUPM Students Chapter, April 24, 2018.
2. *Stabilization of Contaminated Soils*, during Short-Term Course on “**Stabilization of Indigenous Soils and Rocks for Constructional Purposes**”, organized by the Department of Civil & Environmental Engineering, KFUPM, February 19 to 23, 2017.
3. *Considerations for Corrosion Protection*, during Short-Term Course on “**Assessment and Repair of Reinforced Concrete Structures: Principles and Applications**”, organized by the Department of Civil & Environmental Engineering, KFUPM, (**Four times**) April 28 to May 02, 2012, April 5 to 9, 2015, March 19 to 23, 2017, March 10 to 14, 2019.
4. *Inspection Methodology and Assessment Guidelines*, during Short-Term Course on “**Assessment and Repair of Reinforced Concrete Structures: Principles and Applications**”, organized by the Department of Civil & Environmental Engineering, KFUPM, (**Two times**) March 19 to 23, 2017, March 10 to 14, 2019.
5. *Types of Cracks in Concrete*, during Short-Term Course on “**Assessment and Repair of Reinforced Concrete Structures: Principles and Applications**”, organized by the Department of Civil & Environmental Engineering, KFUPM, (**Two times**) March 19 to 23, 2017, March 10 to 14, 2019.
6. *Repairs of Cracks in Concrete*, during Short-Term Course on “**Assessment and Repair of Reinforced Concrete Structures: Principles and Applications**”, organized by the Department of Civil & Environmental Engineering, KFUPM, (**Two times**) March 19 to 23, 2017, March 10 to 14, 2019.
7. *Deterioration of Concrete: A Review*, during Short-Term Course on “**Assessment and Repair of Reinforced Concrete Structures: Principles and Applications**”, organized by the Department of Civil & Environmental Engineering, KFUPM, April 28 to May 02, 2012.
8. *Corrosion Testing & Monitoring*, during Short-Term Course on “**Assessment and Repair of Reinforced Concrete Structures: Principles and Applications**”, organized by the Department of Civil & Environmental Engineering, KFUPM, April 28 to May 02, 2012.
9. *Prediction of Service Life of RC Structures*, during Short-Term Course on “**Protection of Reinforced Concrete Structures in Hot and Aggressive Exposures**”, organized by the Department of Civil & Environmental Engineering, KFUPM, May 21 to 25, 2011.
10. *Tests for Concrete Strength and Durability*, during Short-Term Course on “**Assessment and Repair of Reinforced Concrete Structures: Principles and Applications**”, organized by the Department of Civil & Environmental Engineering, KFUPM, (**Three times**) May 10 to 14, 2008, April 24 to 28, 2010, and April 28 to May 02, 2012.
11. *Requirements for Concrete Durability*, during 2nd Workshop on “**Concrete Deterioration and its Prevention**”, organized by the Center for Engineering Research, Research Institute, KFUPM, November 7, 2007.
12. *Chemical Admixtures: Plasticizers and Corrosion Inhibitors*, during Short-Term Course on “**Protection of Reinforced Concrete Structures in Hot and Aggressive Exposures**”, organized by the Department of Civil & Environmental Engineering, KFUPM, (**Five times**) May 26 to 30, 2007, April 18 to 22, 2009, May 21 to 25, 2011, April 20 to 24, 2014, and April 24 to 28, 2016.

13. *Causes and Repair of Cracks*, during **Short-Term Course on “Protection of Reinforced Concrete Structures in Hot and Aggressive Exposures”**, organized by the Department of Civil & Environmental Engineering, KFUPM, April 24 to 28, 2016.
14. *Tests for Concrete Properties other than Strength*, during **Short-Term Course on “Assessment and Repair of Reinforced Concrete Structures”**, organized by the Department of Civil & Environmental Engineering, KFUPM, April 8 to 12, 2006.
15. *Factors Affecting Corrosion of Steel in Concrete*, during **Short-Term Course on “Principles of Cathodic Protection and Coating Technology”**, organized by the Department of Mechanical Engineering, KFUPM, April 8 to 12, 2006.
16. *Corrosion Monitoring of Concrete Structures*, during **Short-Term Course on “Principles of Cathodic Protection and Coating Technology”**, organized by the Department of Mechanical Engineering, KFUPM, April 8 to 12, 2006.
17. *Proportioning of Concrete Mixes*, during **Short-Term Course on “Total Quality Inspection of Concrete and Reinforced Concrete Structures”**, organized by the Organization Development Department, **Royal Commission, Jubail**, December 17 to 21, 2005.
18. *Optimal Design of Concrete Mixes*, during **Short-Term Course on “Optimal Engineering Designs: Methods and Applications”**, organized by the Department of Civil & Environmental Engineering, KFUPM, May 8 to 12, 2004.
19. *Optimal Design of Selected Water Treatment Units*, during **Short-Term Course on “Optimal Engineering Designs: Methods and Applications”**, organized by the Department of Civil & Environmental Engineering, KFUPM, May 8 to 12, 2004.
20. *Optimal Design of Water Distribution Pipes*, during **Short-Term Course on “Optimal Engineering Designs: Methods and Applications”**, organized by the Department of Civil & Environmental Engineering, KFUPM, May 8 to 12, 2004.
21. *Service Life Prediction of Corroding R.C. Members*, during **Short-Term Course on “Protection of Reinforced Concrete Structures”**, organized by the Department of Civil & Environmental Engineering, KFUPM, (**Five times**) February 2 to 6, 2002, May 1 to 5, 2004, May 26 to 30, 2007, April 20 to 24, 2014, and April 24 to 28, 2016.
22. *Corrosion Measurements of Steel in Concrete*, during a **Training Program on “Concrete Technology and Durability”** during December 20 – March 14, 2004 for the employees of Fugro-Suhaimi Ltd (Saudi Arabia) at KFUPM, Dhahran, Saudi Arabia.
23. *Seismic Behavior and Design of Dual Structural Systems*, during **Short-Term Course on “Earthquake-Resistant Designs of Concrete and Steel Structures”**, organized by the Department of Civil & Environmental Engineering, KFUPM, (**Two times**) April 28, 2003 and May 25, 2009.
24. *Seismic Behavior and Design of R/C Beam-Column Joints*, during **Short-Term Course on “Earthquake-Resistant Designs of Concrete and Steel Structures”**, organized by the Department of Civil & Environmental Engineering, KFUPM, (**Two times**) April 28, 2003 and May 25, 2009.
25. *Properties of Concrete Influencing Cracking*, during **Short-Term Course on “Crack-Controlled Design of Concrete Structures”**, organized by the Department of Civil & Environmental Engineering, KFUPM, May 11 to 15, 2002.
26. *Effects of Concrete Parameters and Chlorides on Corrosion of Reinforcement in R.C. Structures*, during **Training course on “Corrosion of Reinforcement and Deterioration of Concrete–Preventive Measure”** during 6-7 September 1995 for Assistant Engineers/Executive Engineers at Central Public Works Department (CPWD) Training Institute, New Delhi.

Appendix-3: **List of Research Projects**

Funded Research Projects

As Principal Investigator

1. *A Study of Self-Compacting Concrete Using Local Marginal Aggregates*, funded by **SABIC/Fast Track Research Grants**, (Role: Principal Investigator). Status: Final report approved.
2. *Development of a Set-up and Procedure for In-situ Monitoring of Reinforcement Corrosion in Concrete*, funded by **Center of Research Excellence in Corrosion (CoRE-C), KFUPM**, (Role: Principal Investigator). Status: Final report approved.
3. *Development of Ultra-high Performance Concrete for Corrosion Resistance*, funded by **National Science, Technology and Innovation Plan (NSTIP) Unit, King Abdulaziz City for Science and Technology (KACST)**, (Role: Principal Investigator) Status: Final report approved.
4. *Evaluation of the Maximum Transit Time for Ready-Mixed Concrete*, funded by **APTC Ready-Mixed Concrete Factory Limited, Dammam, through Research Institute, KFUPM**, (Role: Principal Investigator). Status: Final report approved.
5. *A Comprehensive Study of Self-Compacting Concrete (SCC) towards its Adoptability in Saudi Arabia* funded by **KFUPM Internal Funding (Concrete Research Group)**, (Role: Principal Investigator). Status: Final report approved.
6. *Mechanical Properties and Durability of Reactive Powder Concrete (RPC) Developed using Local Fine Aggregate*, funded by **KFUPM Internal Funding (Concrete Research Group)**, (Role: Principal Investigator). Status: Final report approved.
7. *A Comprehensive Study on Accelerated Carbonation Curing of Concrete towards its Adoptability by Precast Industries in Saudi Arabia*, funded by **KFUPM Internal Funding (Concrete Research Group)**, (Role: Principal Investigator). Status: Final report approved.
8. *Evaluation of Performance of Reactive Powder Concrete Mixtures Subjected to Cyclic Exposures and Elevated Temperatures*, funded by **KFUPM Internal Funding (Concrete Research Group)**, (Role: Principal Investigator). Status: Final report approved.
9. *Stabilization/Solidification Treatment of Soils Contaminated by Petroleum Oils Utilizing Indigenous Industrial Waste Products*, funded by **National Science, Technology and Innovation Plan (NSTIP) Unit, King Abdulaziz City for Science and Technology (KACST)**, (Role: Principal Investigator). Status: Completed, final report approved.
10. *Strengthening of Corroded Reinforced Concrete Beams Using Ultra-High Performance Concrete (UHPC) and Carbon Fiber Reinforced Polymer (CFRP)*, funded by **KFUPM under Directed Funding (Project No. DF191021)**, (Role: Principal Investigator). Status: In progress since April 1, 2020.

As Co- Investigator

11. *Evaluation of Sulfur Concrete Technology for Local Application*, funded by **Saudi ARAMCO**, (Role: Co-Investigator). Status: Final report approved.
12. *Prediction of Residual Strength of Corrosion-Damaged Reinforced Concrete Beams*, funded by **KFUPM under SABIC/Fast Track Research Grants**, (Role: Co-Investigator). Status: Final report approved.

13. *A Study of the Relationship between Permeability and Tortuosity of Concrete*, funded by **KFUPM** under **Applied Research Income Grants Program**, (Role: Co-Investigator). Status: Final report approved.
14. *Establishing Quality Compliance Criteria for Concrete in Eastern Saudi Arabia*, funded by **KFUPM** under **Applied Research Income Grants Program**, (Role: Co-Investigator). Status: Final report approved.
15. *Study on PVC Pipe Products and Causes of Failures*, funded by **SABIC (R & T Dept.) to the Center of Refinery & Petroleum (CRP), RI, KFUPM**, (Role: Co-Investigator). Status: Final report approved.
16. *Formulating Supplementary Compliance Criteria for Locally Produced Concrete*, funded by **Saudi ARAMCO**, (Role: Co-Investigator). Status: Final report approved.
17. *A Study of the Size-effect of Corroded Reinforced Concrete Beams in Prediction of Residual Strength*, funded by **SABIC/Fast Track Research Grants**, (Role: Co-Investigator). Status: Final report approved.
18. *Experimental and Analytical Unified Multi-criterion Optimal Design of Reinforced Concrete Beams and Columns*, funded by King Abdul Aziz City for Science and Technology (**KACST**), (Role: Co-Investigator). Status: Final report approved.
19. *A Study on Utilizing Modified Sulfur Concrete in Structural Components and Development of a Stable Sulfur Modifier*, funded by **Saudi ARAMCO (P.N. CER 2342)**, (Role: Co-Investigator). Status: Final report approved.
20. *An Exploratory Study of a Newly-Developed Ultra-High Performance Concrete (Ductal[®]) for its Applications in Saudi Arabia*, funded by **SABIC/Fast Track Research Grants**, (Role: Co-Investigator). Status: Final report approved.
21. *Prediction of Residual Strength of Corroded Reinforced Concrete Columns and Beam-Columns*, funded by **Center of Research Excellence in Corrosion (CoRE-C), KFUPM**, (Role: Co-Investigator). Status: Final report approved.
22. *Ultra-high Performance Concrete for Shear Strengthening of RC Beams*, funded by **KFUPM Internal Funding (Project No. IN161055)**, (Role: Co-Investigator). Status: Final report approved.
23. *Investigation of Carbon Dioxide Sequestration Potential of Concrete Mixtures Incorporating Cement Kiln Dust*, funded by **KFUPM-under Startup Research Grant (Project No. SR 181011)**, (Role: Consultant/Co-Investigator). Status: Final report approved.
24. *Investigation of the Design Requirements of GFRP Bars for Concrete Structures*, funded by **Saudi ARAMCO (Project No. CER 2451)**, (Role: Co-Investigator). In progress since Sep 2018.
25. *Development of a composite coating utilizing indigenous industrial waste materials for application on steel and concrete*, funded by **KFUPM under Directed Funding (Project No. DF DF191047)**, (Role: Co-Investigator). Status: In progress since April 1, 2020.
26. *Assessment of Damage due to Reinforcement Corrosion using Optical Fiber Sensor-Based Data*, funded by **KFUPM under Small/Basic Research Grant (Project No. SB191052)**, (Role: Co-Investigator). Status: In progress since September 1, 2020.
27. *Waste Management-Ground Water Pollution*, funded by **King Khalid University, Abha, Saudi Arabia, under Senior Research Project Group**, (Role: Co-Investigator). Status: In progress since April 1, 2020.

Un-sponsored Research Projects

1. *Optimizing the dosage of superplasticizer and w/c ratio for concrete made with plain and blended cements*, **Term Project** for CE 501 students in the academic year 2008-2009 (Term 081). (Role: Advisor)
2. *Stabilization/Solidification of Soil Contaminated with Hazardous Wastes*, **MS Thesis Project** in the academic year 2008-2009 (Term 082). (Role: Advisor)
3. *Evaluation of Performance of Polymer-Based Superplasticizers for Self-Compacting Concrete*, **Directed Research** (CE 701) for a PhD student in the academic year 2010-2011 (Term 101). (Role: Advisor)
4. *Testing and Evaluation of Concrete Members using various Non-Destructive Methods*, **Term Project** for CE 502 students in the academic year 2011-2012 (Term 112). (Role: Advisor)
5. *The Effect of Water/Powder and Sand/Total Aggregate Ratios on the Performance of Self Compacting Concrete*, **Term Project** for CE 501 students in the academic year 2012-2013 (Term 121). (Role: Advisor)
6. *Effects of Sugar on Setting Times of Portland Cements*, **Term Project** for CE 501 students in the academic year 2012-2013 (Term 122). (Role: Advisor)
7. *Experimental Investigation and Numerical Modeling of Two- Dimensional Chloride Diffusion in Concrete*, **MS Thesis Project** in the academic year 2013-2014 (Term 131). (Role: Advisor)
8. *A Study on Stabilization/Solidification of Oil-Contaminated Soils*, **MS Thesis Project** in the academic year 2013-2014 (131). (Role: Advisor)
9. *A Study on Shrinkage and Reinforcement Corrosion in Concrete Mixtures Cured with Accelerated Carbonation*, **Independent Research (CE 606)** for a MS student in the academic year 2015-2016 (Term 152). (Role: Advisor)
10. *Development of Geopolymer Concrete Incorporating Local Waste Materials*, **MS Thesis Project** in the academic year 2015-2016 (Term 152). (Role: Advisor)
11. *Study on Shear Behavior of Ultra-High Performance Concrete (UHPC) Beams*, **MS Thesis Project** in the academic year 2016-2017 (Term 161). (Role: Advisor)
12. *Structural Behavior of Passively Reinforced Ultra-High Performance Concrete (UHPC) Beams*, **PhD Thesis Project** in the academic year 2016-2017 (Term 162). (Role: Advisor)
13. *A Study on the Effect of Different Curing Regimes on Performance of UHPC Mixtures Containing Natural Pozzolan*, **MS Thesis Project** in the academic year 2016-2017 (Term 162). (Role: Advisor)
14. *Experimental and Numerical Modeling of the Behavior of Ultra High Performance Concrete Slabs under Impact Loads*, **Ph.D. Thesis Project** (Started in Term 162-in progress). (Role: Advisor)
15. *Exploring Possibility of Determining Mechanical Properties of Ultra High Performance Concrete (UHPC) Using Non-Destructive Tests*, **Directed Research** (CE 701) for a PhD student in the academic year 2018-2019 (Term 181). (Role: Advisor)
16. *5. An Experimental and Numerical Study on Strengthening of RC Beams using UHPC*, **MS Thesis Project** 2020-2021 (Term 201). (Role: Advisor)

Appendix-4: Involvement in Master and Doctoral Students' Dissertations

Thesis Adviser/Co-Adviser

1. *Development of Non-Carbonate Binders utilizing Indigenous Materials*, **Ph.D. Thesis** by Mr. Ibrahim Nabil Al-Duais, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, (Started in 192) (**Advisor**)
2. *Development of a submicron/nano carbon coating from indigenous industrial waste material for application on steel and concrete*, **Ph.D. Thesis** by Mr. Shaik Inayath Basha, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, (Started in 192) (**Advisor**)
3. *Strengthening of Corroded Reinforced Concrete Beams Using Ultra High Performance Concrete (UHPC)*, **Ph.D. Thesis** by Mr. Mohammed Abdulkarem Al-Huri, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, (Started in 181) (**Advisor**)
4. *Flexural Strengthening of Corroded Reinforced Concrete Beams using Hybrid System*, **MS Thesis** by Mr. Khaled M. Sakhr Kharma, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2020-2021 (201) (**Co-Advisor**)
5. *An Experimental and Numerical Study on Strengthening of RC Beams using UHPC*, **MS Thesis** by Mr. Abdulla Mohammed Sharif, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2019-2020(192) (**Advisor**)
6. *Experimental and Numerical Modeling of the Behavior of Ultra High Performance Concrete Slabs Under Impact Loads*, **Ph.D. Thesis** by Mr. Muhammad Umar Khan, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2018-2019 (182) (**Advisor**)
7. *Performance Evaluation of Modified Recycled Aggregate Concrete*, **MS Thesis** by Mr. Rayhan Md. Faysal, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2018-2019 (182) (**Advisor**)
8. *Flexural Behavior of Hollow Reinforced Lightweight Concrete Slabs Subjected to Cyclic Heating*, **MS Thesis** by Mr. Hussein Mudher Kareem, Department of Civil Engineering (Structural Engineering), Tikrit University, Republic of Iraq, 2017-2018 (172) (**Co-Advisor**)
9. *A Study on Stabilization/Solidification of Soils Contaminated by Petroleum Oil Utilizing Indigenous Industrial Waste Products*, **MS Thesis** by Mr. Yassir Mubarak Hussein Mustafa, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2016-2017 (162) (**Co-Advisor**)
10. *Structural Behavior of Passively Reinforced Ultra-High Performance Concrete (UHPC) Beams*, **PhD Thesis** by Mr. Saheed Kolawole Adekunle, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2016-2017 (162) (**Advisor**)
11. *A Study on the Effect of Different Curing Regimes on Performance of UHPC Mixtures Containing Natural Pozzolan*, **MS Thesis** by Mr. Khaled Own Mohaisen, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2016-2017 (162) (**Advisor**)
12. *Study on Shear Behavior of Ultra-High Performance Concrete (UHPC) Beams*, **MS Thesis** by Mr. Sifatullah Zahid Bahij, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2016-2017 (161) (**Advisor**)
13. *Development of Geopolymer Concrete Incorporating Local Waste Materials*, **MS Thesis** by Mr. Albu Shaqraa, Abbas Ahmed, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2015-2016 (152) (**Advisor**)

14. *Performance of UHPC Mixtures Subjected to Elevated Temperatures and Cyclic Exposures*, **MS Thesis** by Mr. Mehboob Rasul, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2015-2016 (152) (**Advisor**)
15. *A Study on Accelerated Carbonation Curing of Concrete*, **MS Thesis** by Mr. Rida Alwi Othman Assaggaf, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2015-2016 (152) (**Advisor**)
16. *Experimental Investigation and Numerical Modeling of Two-Dimensional Chloride Diffusion in Concrete*, **MS Thesis** by Mr. Muhammad Umar Khan, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2013-2014 (131) (**Advisor**)
17. *A Study on Stabilization/Solidification of Oil-Contaminated Soils*, **MS Thesis** by Mr. Banaimoon Mohammed Salem, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2013-2014 (131) (**Advisor**)
18. *A Study on Durability Properties of Ultra-High Performance Concrete (UHPC) utilizing Local Fine Quartz Sand*, **MS Thesis** by Mr. Ahmed Yousuf Shareef, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2012-2013 (**Advisor**)
19. *A Study on Mix Design and Mechanical Properties of Reactive Powder Concrete Utilizing Fine Quartz Sand*, **MS Thesis** by Mr. Ahmed Zubair, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2011-2012 (**Advisor**)
20. *A Study on Developing Self-Consolidating Concrete (SCC) Utilizing Indigenous Natural and Industrial Waste Materials*, **MS Thesis** by Mr. Saheed Kolawole Adekunle, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2011-2012 (**Advisor**)
21. *Shear Strength of Corroded Reinforced Concrete Beams*, **MS Thesis** by Mr. Ashhad Imam, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2011-2012 (**Co-Advisor**)
22. *Development of a Set-up for In-situ Measurement of Reinforcement Corrosion*, **MS Thesis** by Mr. Mohammed Abdul Azeem Jibrán, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2011-2012 (**Advisor**)
23. *Electrochemical and Gravimetric Studies towards Service-Life Prediction and Durability-based Design of RC Structures in Corrosive Environments*, **MS Thesis** by Mr. Lawan Adamu, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2010-2011 (**Co-Advisor**)
24. *Characterization of Ductal®: an Ultra-High Performance Concrete*, **MS Thesis** by Mr. Hakeem Ibrahim Yahya Ahmed, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2010-2011 (**Co-Advisor**)
25. *Towards Optimal Design of Reinforced Concrete Structures in Corrosive Environments in Saudi Arabia*, **MS Thesis** by Mr. Yusuf Moruf Olalekan, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2008-2009 (**Co-Advisor**)
26. *Cement-based Stabilization/Solidification of Soil Contaminated with Hazardous Wastes*, **MS Thesis** by Mr. Alamutu Lateef Olawale, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2008-2009 (**Co-Advisor**)
27. *Time-dependent Modeling of Loss of Flexural Strength of Corroding RC Beams*, **MS Thesis** by Mr. Basheer Hasan Al-Gohi, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2007-2008 (**Co-Advisor**)
28. *A Study of Mix Design and Durability of Self Compacting Concrete*, **MS Thesis** by Mr. Mohammed Abdul Hameed, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2005-2006 (**Advisor**)

29. *Compliance Criteria for Quality Concrete*, **MS Thesis** by Mr. Walid Abubaker Al-Kutti, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2004-2005 (**Co-Advisor**)
30. *A Prediction Model for the Residual Flexural Strength of Corroded Reinforced Concrete Beams*, **MS Thesis** by Mr. Syed Ayub Azher, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2003-2004(**Co-Advisor**)
31. *Development of an Integrated Approach for Hazardous Waste Inventorization with Special Reference to Ground Water Contamination & Human Health*, **Ph.D. Thesis** by Mr. Abul Hasan, Department of Civil Engineering, Faculty of Engineering and Technology, Jamia Millia Islamia, New Delhi, 2005 (**Advisor**).
32. *Development of Database for Environmental Management for Delhi City*, **M.Tech. Thesis** by Mr. Shahzad Ansari, Department of Civil Engineering, Faculty of Engineering and Technology, Jamia Millia Islamia, New Delhi, 2000 (**Advisor**)
33. *Assessment of Performance of Okhla Sewage Treatment Plants in Delhi*, **M.Tech Thesis** by Mr. Sajjad, Department of Civil Engineering, Faculty of Engineering and Technology, Jamia Millia Islamia, New Delhi, 1999(**Advisor**)
34. *An Optimal Water Supply Scheme for Lal Kuan Area in Delhi*, **M.Tech Thesis** Mr. Belani, Department of Civil Engineering, Faculty of Engineering and Technology, Jamia Millia Islamia, New Delhi, 1998(**Advisor**)
35. *Design of Industrial Wastewater Treatment Units*, **M.Tech Thesis** by Mr. Sandeep Khullar, Department of Civil Engineering, Faculty of Engineering and Technology, Jamia Millia Islamia, New Delhi, 1997(**Advisor**)

Thesis Committee Member

36. *Utilization of Form-Stable Phase Change Materials in Building Applications under Hot Weather Conditions*, **Ph.D. Thesis** by Mr. Khaled Own Mohaisen, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, (Started in 191) (**Member**)
37. *Assessment of Treatment Methods for Developing Sustainable Concrete*, **Ph.D. Thesis** by Mr. Rida Alwi Assaggaf, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, (Started in 182) (**Member**)
38. *Interfacial Bond Behavior between Ultra High-Performance Concrete (UHPC) and Different Concrete Substrates*, **MS Thesis** by Mr. Mohammed Khaled Almadani, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2020-2021(201) (**Member**)
39. *An Experimental Investigation of Bond Strength of Ultra-High Performance Concrete*, **MS Thesis** by Mr. Abdulrahman Mohammed Sharif, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2019-2020 (192) (**Member**)
40. *A Study on Carbon Dioxide Sequestration in Concrete Mixtures Incorporating Cement Kiln Dust*, **MS Thesis** by Mr. Wasiu Olaniyi Alimi, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2019-2020 (192) (**Member**)
41. *Modelling of Key Properties of Alkali-Activated Concrete*, **Ph.D. Thesis** by Mr. Mukhtar Oluwaseun Azeez, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2019-2020 (192) (**Member**)
42. *Experimental and Numerical Evaluation of Continuous Composite Girders Using UHPC Slab at Hogging Moment Region*, **Ph.D. Thesis** by Mr. Nizar Assi, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2018-2019 (181-182) (**Member**)

43. *Experimental Investigation and Modeling of Concrete Structures Exposed to Molten Sulfur*, **Ph.D. Thesis** by Mr. Hassan Ali Alkhalifah, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2018-2019 (181-182) (**Member**)
44. *Development of High Performance Concrete Utilizing Indigenous Industrial Waste Materials and Nano-Silica*, **Ph.D. Thesis** by Mr. Anas Mohammad Ibrahim Alkhatib, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2018-2019 (181) (**Member**)
45. *Development of Sustainable Concrete Set Retarders using Indigenous Industrial Byproducts*, **MS Thesis** by Mr. Osama Ghanem Rashed Massarweh, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2017-2018 (172) (**Member**)
46. *Development of Alkali-Activated Binders utilizing Indigenous Industrial Waste Materials*, **MS Thesis** by Mr. Sami Salem Hamid, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2016-2017 (171) (**Member**)
47. *Development of Light Weight, Thermal Resistant Concrete Utilizing Recycled Plastic Aggregates*, **M.S. Thesis** by Mr. Shaik Inayath Basha, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2016-2017 (162) (**Member**)
48. *Seismic Behavior of Beam Column Joints Strengthened with Ultra High Performance Concrete*, **M.S. Thesis** by Mr. Muhammad Irfan Khan, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2016-2017 (162) (**Member**)
49. *Performance of Concrete in Different Marine Exposure Zones Utilizing Cementitious Materials and Chemical Additives*, **M.S. Thesis** by Mr. Ibrahim Nabil Ali Al-Duais, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2016-2017 (162) (**Member**)
50. *Fatigue and Rutting Performance of Hybrid Recycled Plastic Asphalt Concrete*, **Ph.D. Thesis** by Mr. Muhammad Abubakar Dalhat, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2016-2017 (162) (**Member**)
51. *Modelling of Corroded Reinforced Concrete Beams*, **MS Thesis** by Mr. Hamdi Ahmed Al-Sakkaf, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2015-2016 (152) (**Member**)
52. *Experimental Investigation of Flexural Behavior of Ultra High Performance Concrete Strengthened Conventional RC Beams*, **MS Thesis** by Mr. Muhammad Nura Isa, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2015-2016 (152) (**Member**)
53. *Development of High Performance Concrete utilizing Nano-Materials*, **Ph.D. Thesis** by Mr. Lawan Adamu, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2015-2016 (151) (**Member**)
54. *Development of High Performance and Radiation Shielding Concrete utilizing Indigenous Industrial Waste Materials*, **MS Thesis** by Mr. Azeez Mukhtar Oluwaseun, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2014-2015 (142) (**Member**)
55. *Electrochemical Studies on Corrosion-Resistant Steel Bars*, **MS Thesis** by Mr. Adewumi Adeshina Adewale, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2014-2015 (142) (**Member**)
56. *A Study on Developing High Performance Non-Shrinking Grout (HPNSG) utilizing Local Materials*, **MS Thesis** by Mr. Abd Elrahman Mohammed, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2014-2015 (142) (**Member**)
57. *Development of Structural Lightweight Concrete utilizing Local Materials*, **MS Thesis** by Mr. Mahmoud Nasr Mahmoud Ahmed, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2014-2015 (142) (**Member**)

58. *Analysis and Design of High Strength Concrete Columns Subjected to Compression and Biaxial Bending*, **MS Thesis** by Mr. Nizar Abdul Hamid Yousef Assi, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2014-2015 (142) (**Member**)
59. *Modeling of Polymer-based Self-compacting Concrete using Rheological Indexing*, **Ph.D. Thesis** by Mr. Naeem Sohail Saleem, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2014-2015 (141) (**Member**)
60. *Structural Behavior of Unreinforced Hybrid Slab Elements Cast with Ultra-high Performance Concrete (UHPC)*, **Ph.D. Thesis** by Mr. Hakeem Ibrahim Yahya Ahmed, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2013-2014 (132) (**Member**).
61. *Development of Lightweight Concrete Utilizing Local Materials*, **MS Thesis** by Mr. Osman Mohammed Saber, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2013-2014 (132) (**Member**)
62. *Evaluating the Performance of Plain and Blended Cement Concretes under Marine Environment in the Arabian Gulf*, **MS Thesis** by Mr. Ahmad Mohamad Nour Al-Din Mohamad Hassan, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2013-2014 (132) (**Member**)
63. *Performance Evaluation of Corrosion Inhibitors for Local Conditions*, **MS Thesis** by Mr. Khaled Ahmed Alawi Al-Sodani, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2013-2014 (132) (**Member**)
64. *A Study on Utilizing Chemical Inhibitors in New Reinforced Concrete Structures*, **MS Thesis** by Mr. Ahmed Abdullah Alawi Al-Naghi, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2013-2014 (132) (**Member**)
65. *Production of Sustainable Concrete using Indigenous Saudi Natural Pozzolana*, **MS Thesis** by Mr. Saad Mohammad Saad Khan, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2013-2014 (131) (**Member**)
66. *Experimental Investigation and Modeling for Heat of Hydration in Mass Concrete*, **Ph.D. Thesis** by Mr. Muneer Qaid Saeed, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2013-2014 (131) (**Member**)
67. *Reliability-Based Strength Prediction Model for Reinforced Concrete Corroded Columns and Beam-Columns*, **Ph.D. Thesis** by Mr. Mohammed Ali Al-Osta, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2012-2013 (**Member**)
68. *Mechanical Properties and Durability of Quaternary Cement Concretes*, **MS Thesis** by Mr. Moinuddin Mohammed Khaja, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2011-2012 (**Member**)
69. *Elemental Analysis of Concrete using Reflected Prompt Gamma Rays*, **MS Thesis** by Mr. Zameer Kalakada, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2011-2012 (**Member**)
70. *Self-Compacting Concrete Utilizing Local Materials*, **MS Thesis** by Mr. Salami Babatunde Abiodun, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2011-2012 (**Member**)
71. *Production of Medium to Low Strength Concrete Utilizing Indigenous Waste Materials*, **MS Thesis** by Mr. Syed Khaja Najmuddin, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2011-2012 (**Member**)
72. *Durability Assessment of Joint Assembly for Fiberglass Resin Coated Concrete Cylinder Pipes*, **MS Thesis** by Mr. Mohammed M. Husain Al-Tholaia, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2009-2010 (**Member**)

73. *Evaluation of Ternary Cements for Improving Concrete Durability*, **MS Thesis** by Mr. Mohammed Azhar, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2006-2007 (**Member**)
74. *Effect of Curing Methods on Properties of Plains and Blended Cement Concretes*, MS Thesis by Mr. Nassani Dia Eddin, Department of Civil & Environmental Engineering, KFUPM, Dhahran, Saudi Arabia, 2006-2007 (**Member**)

PhD Thesis Examiner

75. *Effect of Admixing Egg on the Properties of Concrete Mixtures Containing Fly Ash as Supplementary Cementitious Materials*, **Ph.D. Thesis** by Mr. Ramesh Babu TS, School of Civil and Chemical Engineering, VIT University, Vellore, Tamilnadu, India, 2017-2018 (171) (**Examiner**)
76. *Development and Behavior of Concrete Composites with Improved Durability and Ductility using Ultrafine Fillers and Fibers*, **Ph.D. Thesis** by Mr. Wasim Abbas, Department of Civil Engineering, King Saud University, Riyadh, Saudi Arabia, 2017-2018 (172) (**Examiner**)
77. *Flexural Behavior of Lightweight Concrete Flexural Members Reinforced with Either Steel Bars or GFRP Gratings*, **Ph.D. Thesis** by Mr. Mohammed Hussein Ali Almalome, School of Civil, Mining and Environmental Engineering, University of Wollongong, Australia, 2019-2020 (192) (**Examiner**)

Appendix-5:
List of Research Publications [Total: 133]

Refereed Journals [72]

- [72] Salah U. Al-Dulaijan, Mukhtar Oluwaseun Azeez, **Shamsad Ahmad**, and Mohammed Maslehuddin, “*Properties of High Performance Heavyweight Concrete Mixtures Containing Different Types of Coarse Aggregates*”, **Advances in Concrete Construction (South Korea)**, 12(1), 2021, pp. 75-84.
- [71] Ashraf A. Bahraq, Mohammed Al-Osta, Muhammad I. Khan, and **Shamsad Ahmad**, “*Numerical and Analytical Modeling of Seismic Behavior of Beam-Column Joints Retrofitted with Ultra-High Performance Fiber Reinforced Concrete*”, **Structures (UK)**, 2021, 32, pp. 1986-2003.
- [J70] Mohd Abul Hasan, **Shamsad Ahmad**, and Tariq Mohammed, “*Groundwater Contamination by Hazardous Wastes: A Review*”, **Arabian Journal for Science and Engineering (Saudi Arabia)**, 46(5), 2021, pp. 4191-4212.
- [J69] Yassir M. H. Mustafa, Omar S. Baghabra Al-Amoudi, **Shamsad Ahmad**, Mohammed Maslehuddin, and Muhammad H. Al-Malack, “*Utilization of Portland Cement with Limestone Powder and Cement Kiln Dust for Stabilization/Solidification of Oil-Contaminated Marl Soil*”, **Environmental Science and Pollution Research (Germany)**, 28(3), 2021, pp. 3196-3216.
- [J68] Muhammad Umar Khan, **Shamsad Ahmad**, Akhtar Abbas Naqvi, and Husain Jubran Al-Gahtani, “*Shielding performance of heavy-weight ultra-high-performance concrete against nuclear radiation*”, **Progress in Nuclear Energy (UK)**, 130, 2020, 103550.
- [J67] Shaik Inayath Basha, Abdul Aziz, M. Maslehuddin, **Shamsad Ahmad**, Abbas Saeed Hakeem, and Muhammad Mizanur Rahman “*Characterization, Processing, and Application of Heavy Fuel Oil Ash, an Industrial Waste Material – A Review*”, **Chemical Record (Germany)**, 20(12), 2020, pp. 1568-1595.
- [J66] **Shamsad Ahmad**, Mohammed Maslehuddin, Mohammed Shameem, Rayhan Md. Faysal, Saheed Kolawole Adekunle, “*Effect of Abrasion and Chemical Treatment of Recycled Aggregate on the Workability, Strength, and Durability Properties of Concrete*”, **European Journal of Environmental and Civil Engineering (France)**, published online in 2020.
- [J65] Mohammed Hamdan Aldayel Aldossary, **Shamsad Ahmad**, and Ashraf Awadh Bahraq, “*Effect of Total Dissolved Solids-Contaminated Water on the Properties of Concrete*”, **Journal of Building Engineering (Netherlands)**, Vol. 32, 2020, Article number 101496.
- [J64] Osama Massarweh, Mohammed Maslehuddin, Salah U. Al-Dulaijan, M. Shameem, and **Shamsad Ahmad**, “*Development of a Concrete Set Retarder Utilizing Electric Arc Furnace Dust*”, **Construction and Building Materials (UK)**, Vol. 255, 2020, Article number 119378.
- [J63] Mehboob Rasul, **Shamsad Ahmad**, Saheed Kolawole Adekunle, Salah U. Al-Dulaijan, Mohammed Maslehuddin, and Syed Imran Ali, “*Evaluation of the effect of exposure duration and fiber content on mechanical properties of polypropylene fiber-reinforced UHPC mixtures subjected to sustained elevated temperature*”, **Journal of Testing and Evaluation (American Society for Testing and Materials, USA)**, 48(6), 2020, 4355-4369.
- [J62] **Shamsad Ahmad**, Adamu Lawan, and Mohammed Al-Osta, “*Effect of sugar dosage on setting time, microstructure and strength of Type I and Type V Portland cements*”, **Case Studies in Construction Materials (UK)**, Vol. 13, 2020, Article number e00364.
- [J61] **Shamsad Ahmad**, Omar S. Baghabra Al-Amoudi, Yassir M. H. Mustafa, Mohammed

- Maslehuddin, and Muhammad H. Al-Malack, “*Stabilization/Solidification of oil-contaminated sandy soil using Portland cement and supplementary cementitious materials*”, **Journal of Materials in Civil Engineering (American Society of Civil Engineers, USA)**, 32(8), 2020, Article number 04020220.
- [J60] Rayhan Md. Faysal, Mohammed Maslehuddin, Mohammed Shameem, **Shamsad Ahmad**, Saheed Kolawole Adekunle, “*Effect of mineral additives and two-stage mixing on the performance of recycled aggregate concrete*”, **Journal of Material Cycles and Waste Management (Japan)**, 22(5), 2020, pp. 1587-1601.
- [J59] **Shamsad Ahmad**, Rida Alwi Assaggaf, Saheed Kolawole Adekunle, Omar S. Baghabra Al-Amoudi, Mohammed Maslehuddin, and Syed Imran Ali, “*Influence of Accelerated Carbonation Curing on the Properties of Self-Compacting Concrete Mixtures Containing Different Mineral Fillers*”, **European Journal of Environmental and Civil Engineering (France)**, published online in 2019.
- [J58] Rida Alwi Assaggaf, Saheed Kolawole Adekunle, **Shamsad Ahmad**, Mohammed Maslehuddin, Omar S. Baghabra Al-Amoudi, and Syed Imran Ali, “*Mechanical Properties, Durability Characteristics and Shrinkage of Plain Cement and Fly Ash Concretes Subjected to Accelerated Carbonation Curing*”, **Journal of the South African Institution of Civil Engineering (South Africa)**, 61(4), 2019, 73-81.
- [J57] Omar S.B. Al-Amoudi, **Shamsad Ahmad**, Saad M.S. Khan, and Mohammed Maslehuddin, “*Durability performance of concrete containing Saudi natural pozzolans as supplementary cementitious material*”, **Advances in Concrete Construction (South Korea)**, 8(2), 2019, 119-126.
- [J56] Muyasser Mohammed Jomaa'h, Hanadi Abdulhakem Abdulazez, and **Shamsad Ahmad**, “*Evaluation of Structural Lightweight Concrete Produced Utilizing Crushed Medical Solid Waste Materials*”, **Journal of Testing and Evaluation (American Society for Testing and Materials, USA)**, 47(4), 2019, 2737–2749.
- [J55] Mukhtar Oluwaseun Azeez, **Shamsad Ahmad**, Salah U. Al-Dulaijan, Mohammed Maslehuddin, and Akhtar A Naqvi, “*Radiation shielding performance of heavy-weight concrete mixtures*”, **Construction and Building Materials (UK)**, 224, 2019, 284-291.
- [J54] **Shamsad Ahmad**, Mehboob Rasul, Saheed Kolawole Adekunle, Salah U. Al-Dulaijan, Mohammed Maslehuddin, and Syed Imran Ali, “*Mechanical Properties of Steel Fiber-Reinforced UHPC Mixtures Exposed Elevated Temperature: Effects of Exposure Duration and Fiber Content*”, **Composites Part B-Engineering (UK)**, 168, 2019, 291-301.
- [J53] **Shamsad Ahmad**, Khaled Own Mohaisen, Saheed Kolawole Adekunle, Salah U. Al-Dulaijan, and Mohammed Maslehuddin, “*Influence of admixing natural pozzolan as partial replacement of cement and microsilica in UHPC mixtures*”, **Construction and Building Materials (UK)**, 198, 2019, 437-444.
- [J52] Ashraf Awadh Bahraq, Mohammed Ali Al-Osta, **Shamsad Ahmad**, Mesfer M. Al-Zahrani, Salah U. Al-Dulaijan, and Muhammad Kalimur Rahman, “*Experimental and Numerical Investigation of Shear Behavior of RC Beams Strengthened by Ultra-High Performance Concrete*”, **International Journal of Concrete Structures and Materials (South Korea)**, 13(1) 2019, 1-19.
- [J51] **Shamsad Ahmad**, Sifatullah Bahij, Mohammed Al-Osta, Saheed Kolawole Adekunle, Salah U. Al-Dulaijan, “*Shear Behavior of Ultra-High-Performance Concrete Beams Reinforced with High-Strength Steel Bars*”, **ACI Structural Journal (American Concrete Institute, USA)**, 116(4), 2019, 3-14.
- [J50] Muyasser Mohammed Jomaa'h, **Shamsad Ahmad**, and Hussein M. Algburi “*Flexural*

- Behavior of Reinforced Concrete One-Way Slabs with Different Ratios of Lightweight Coarse Aggregate*”, **Tikrit Journal of Engineering Sciences (Iraq)**, 25 (4), 2018, 36-44.
- [49] Mohammed A. Al-Osta, **Shamsad Ahmad**, Adil I. Khan, and Ali H. Algadhib, “*Evaluation of Unconfined Compressive Strength of Carbonate Sedimentary Rocks in Saudi Arabia using Indirect Tests*”, **Arabian Journal of Geosciences (Saudi Arabia)**, 11(12), June 2018, Article number 301, 1-12.
- [J48] Mohammed A. Al-Osta, Hamdi A. Al-Sakkaf, Alfarabi M. Sharif, **Shamsad Ahmad**, and Mohammad H. Baluch, “*Finite Element Modeling of Corroded RC Beams Using Cohesive Surface Bonding Approach*”, **Computers and Concrete (South Korea)**, 22(2), 2018, pp. 167-182.
- [J47] Muhammad Irfan Khan, Mohammed Ali Al-Osta, **Shamsad Ahmad**, and Muhammad Kalimur Rahman, “*Seismic Behavior of Beam-Column Joints Strengthened with Ultra-High Performance Fiber Reinforced Concrete*”, **Composite Structures (UK)**, 200, 2018, pp. 103-119.
- [J46] Yassir M. Mustafa, Omar S. Baghabra Al-Amoudi, **Shamsad Ahmad**, and Mohammed Maslehuddin “*Geotechnical Properties of Plastic Marl Contaminated with Diesel*”, **Arabian Journal for Science and Engineering (Saudi Arabia)**, 43(10), 2018, pp. 5573-5583.
- [J45] Saeid A. Alghamdi and **Shamsad Ahmad**, “*On Durability of Reinforced Concrete Structures: A Design Methodology for RC Beams and Columns in Corrosive Environments*”, **Arabian Journal for Science and Engineering (Saudi Arabia)**, 43(10), 2018, pp. 5387-5396.
- [J44] Sifatullah Bahij, Saheed Kolawole Adekunle, Mohammed Al-Osta, **Shamsad Ahmad**, Salah U. Al-Dulaijan, and Muhammad Kalimur Rahman, “*Numerical Investigation of the Shear Behavior of Reinforced Ultra-High Performance Concrete Beams*”, **Structural Concrete (Germany)**, Volume 19, Issue 1, February 2018, Pages 305-317.
- [J43] Muhammad Umar Khan, **Shamsad Ahmad**, and Husain Jubran Al-Gahtani, “*Chloride-Induced Corrosion of Steel in Concrete: An Overview on Chloride Diffusion and Prediction of Corrosion Initiation Time*”, **International Journal of Corrosion (UK)**, Vol. 2017, Article ID 5819202, pp. 1-9.
- [J42] **Shamsad Ahmad**, Rida Alwi Assaggaf, Mohammed Maslehuddin, Omar S. Baghabra Al-Amoudi, Syed Imran Ali, and Saheed Kolawole Adekunle, “*Effects of Carbonation Pressure and Duration on Strength Evolution of Concrete Subjected to Accelerated Carbonation Curing*”, **Construction and Building Materials (UK)**, Vol. 136, 2017, pp. 565-573.
- [J41] **Shamsad Ahmad**, “*Prediction of Residual Flexural Strength of Corroded Reinforced Concrete Beams*”, **Anti-Corrosion Methods and Materials (UK)**, Vol. 64, No. 1, 2017, pp. 69-74.
- [J40] Saeid A. Alghamdi, **Shamsad Ahmad**, and Adamu Lawan, “*Optimization of Concrete Mixture Design and Cover Thickness for Reinforced Concrete Members under Chloride Exposure*”, **ACI Materials Journal (American Concrete Institute, USA)**, Vol. 113, No. 5, 2016, pp. 589-598.
- [J39] **Shamsad Ahmad**, Ibrahim Hakeem, and Mohammed Maslehuddin, “*Development of an Optimum Mixture of Ultra-High Performance Concrete*”, **European Journal of Environmental and Civil Engineering (France)**, Vol. 20, No. 9, 2016, pp. 1106-1126.
- [J38] Yassin Shaher Sallam and **Shamsad Ahmad**, “*Effect of Concrete Strength Class on Performance of CFRP-Confined Concrete under Compression*”, **Journal of Testing and Evaluation (American Society for Testing and Materials, USA)**, Vol. 44, No. 1, 2016, pp. 141-147.

- [J37] **Shamsad Ahmad**, Ahmed Zubair, and Mohammed Maslehuddin, “*Effect of Key Mixture Parameters on Flow and Mechanical Properties of Reactive Powder Concrete*”, **Construction and Building Materials (UK)**, Vol. 99, 2015, pp. 73-81.
- [J36] Saheed Kolawole Adekunle, **Shamsad Ahmad**, Mohammed Maslehuddin, and Husain Jubran Al-Gahtani, “*Properties of SCC prepared using Natural Pozzolana and Industrial Wastes as Mineral Fillers*”, **Cement & Concrete Composites (UK)**, Vol. 62, 2015, pp. 125-133.
- [J35] **Shamsad Ahmad** and Mohammed Hussein Al-Tholaia, “*Evaluation of Corrosion Resistance of Coated Steel Strips Embedded in Mortar under Chloride Exposure*”, **Anti-Corrosion Methods and Materials (UK)**, Vol. 62, No. 1, 2015, pp. 29–36.
- [J34] **Shamsad Ahmad**, Ibrahim Hakeem, and Abul Kalam Azad, “*Effect of Curing, Fibre Content and Exposures on Compressive Strength and Elasticity of UHPC*”, **Advances in Cement Research (UK)**, Vol. 27, Issue 4, 2015, pp. 233-239.
- [J33] **Shamsad Ahmad**, Ibrahim Hakeem, and Mohammed Maslehuddin, “*Development of UHPC Mixtures Utilizing Natural and Industrial Waste Materials as Partial Replacements of Silica Fume and Sand*”, **Scientific World Journal (USA)**, Vol. 2014, No. 713531, August 2014.
- [J32] **Shamsad Ahmad**, Saheed Kolawole Adekunle, Mohammed Maslehuddin, and Abul Kalam Azad, “*Properties of Self-consolidating Concrete made Utilizing Alternative Mineral Fillers*”, **Construction and Building Materials (UK)**, Vol. 68, 2014, pp. 268-276.
- [J31] **Shamsad Ahmad**, Ahmed Zubair, and Mohammed Maslehuddin, “*Effect of the Key Mixture Parameters on Shrinkage of Reactive Powder Concrete*”, **Scientific World Journal (USA)**, Vol. 2014, No. 426921, June 2014.
- [J30] Mohammed M. Hussein Al-Tholaia, Abul K. Azad, **Shamsad Ahmad** and Muhammed, H. Baluch, “*A Comparative Study of Corrosion Resistance of Different Coatings for Mortar-Embedded Steel Plates*”, **Construction and Building Materials (UK)**, Vol. 56, 2014, pp. 74-80.
- [J29] **Shamsad Ahmad**, “*An Experimental Study on Correlation between Concrete Resistivity and Reinforcement Corrosion Rate*”, **Anti-Corrosion Methods and Materials (UK)**, Vol. 61, Issue 3, 2014, pp. 158-165.
- [J28] **Shamsad Ahmad** and Saeid A. Al-Ghamdi, “*A Statistical Approach to Optimize Concrete Mixture Design*”, **Scientific World Journal (USA)**, Vol. 2014, No. 561539, February 2014.
- [J27] **Shamsad Ahmad**, “*Effect of Ohmic Drop on Accuracy of Reinforcement Corrosion Rate Measured using Different Set-ups*”, **Journal of Testing and Evaluation (American Society for Testing and Materials, USA)**, Vol. 42, No. 4, 2014, pp. 872–880.
- [J26] **Shamsad Ahmad**, Mohammed Abdul Azeem Jibrán, Abul Kalam Azad, and Mohammed Maslehuddin, “*A Simple and Reliable Set-up for Monitoring Corrosion Rate of Steel Rebars in Concrete*”, **Scientific World Journal (USA)**, Vol. 2014, No. 525678, January 2014.
- [J25] **Shamsad Ahmad**, Yassin Shaher Sallam, and Mosaad Abdulaziz Al-Hawas, “*Effects of Key Factors on Compressive and Tensile Strengths of Concrete Exposed to Elevated Temperatures*”, **Arabian Journal for Science and Engineering (Saudi Arabia)**, Vol. 39, Issue 6, 2014, pp. 4507-4513.
- [J24] Saeid A. Alghamdi and **Shamsad Ahmad**, “*Service Life Prediction of RC Structures based on Correlation between Electrochemical and Gravimetric Reinforcement Corrosion Rates*”, **Cement & Concrete Composites (U.K.)**, Vol. 47, 2014, pp. 64-68.
- [J23] **Shamsad Ahmad**, “*Evaluation of Effect of Superplasticizer on Performance of Self-Compacting Concrete*”, **Journal of Testing and Evaluation (American Society for Testing and Materials, USA)**, Vol. 41, Issue 5, 2013, pp. 754-760.

- [J22] **Shamsad Ahmad** and Abul Kalam Azad “*An exploratory study on correlating the permeability of concrete with its porosity and tortuosity*”, **Advances in Cement Research (UK)**, Vol. 25, Issue 5, July 2013, pp. 288 –294.
- [J21] Ibrahim Hakeem, Abul Kalam Azad, and **Shamsad Ahmad**, “*Effect of Steel Fibers and Thermal Cycles on Fracture Properties of Ultra-High Performance Concrete*”, **ASTM Journal of Testing and Evaluation (American Society for Testing and Materials, USA)**, Vol. 41, Issue 3 (May 2013).
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- [C39] **Shamsad Ahmad** “*Effects of Total Dissolved Solids Content on Concrete Properties*”, American Concrete Institute’s (ACI’s) Webinar on Seawater-Mixed Concrete–A New Class of Sustainable Concrete, August 5-6, 2020, hosted by the University of Miami, USA.
- [C38] **Shamsad Ahmad** and Saheed Kolawole Adekunle “*Utilization of Limestone Powder and Metakaolin as Mineral Fillers in High Performance Self-Compacting Concrete*”, 3rd International Conference on Calcined Clay for Sustainable Concrete, October 15 to 17, 2019, IIT Delhi, New Delhi, India.
- [C37] Hassan Al-Khalifah, Muhammad Kalimur Rahman, Ali Al-Gadhib, **Shamsad Ahmad**, Salah Al-Dulaijan, Ahmed Al-Gahtani, “*Corrosion Resistance of Calcium Aluminate Cement Concrete Subjected to Sulfuric Acid*”, 5th International Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, August 27 to 29, 2019, Potsdam, Germany.
- [C36] Mohammed Al-Huri, **Shamsad Ahmad**, Mohammed Al-Osta, Ali Al-Gadhib, Muhammad Kalimur Rahman “*Numerical Investigation of RC Beam Strengthened with UHPFRC Layers Using Cohesive Surface Bonding Method*”, 5th International Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, August 27 to 29, 2019, Potsdam, Germany.
- [C35] Saeid A. Al-Ghamdi, **Shamsad Ahmad** and M.M. Khaled “*Mechanical and Microstructure Characteristics of Concrete-Mixtures Designed for Durability of RC-Structures in Corrosive Environments*”, Sixth International Conference on the Durability of Concrete Structures, July 18-20, 2018, University of Leeds, Leeds, West Yorkshire, LS2 9JT, United Kingdom.
- [C34] Mohamad Zaitoun, Sultan Ahmad and **Shamsad Ahmad** “*Reinforcement Corrosion Rate Measurement using Linear Polarization Resistance Method*”, 5th International Corrosion

Prevention Symposium for Research Scholars-CORSYM 2018, March 23-24, 2018, IIT Madras, Chennai, India, pp 123-124.

- [C33] **Shamsad Ahmad** “*Mechanical Properties and Durability Characteristics of Reactive Powder Concrete Developed Using Fine Quartz Sand*”, Proceedings of 28th Biennial National Conference of the Concrete Institute of Australia (Concrete 2017), October 22-25, 2017, Adelaide, Australia.
- [C32] **Shamsad Ahmad** and Saheed Kolawole Adekunle “*A Study on Producing Self-Compacting Concrete Mixtures using Different Waste Materials as Mineral Fillers*”, Proceedings of International Conference on Advances in Construction Materials and Systems (ICACMS-2017), September 3-8, 2017, IIT Madras, Chennai, India, pp. 155-164.
- [C31] **Shamsad Ahmad** “*Use of Alternative Waste Materials in Producing Ultra-High Performance Concrete*”, Proceedings of 1st International Conference on Advances in Sustainable Construction Materials and Civil Engineering Systems (ASCMCES-17), April 18-20, 2017, University of Sharjah, United Arab Emirates, MATEC Web of Conferences Volume 120, 9 August 2017, Article number 03014.
- [C30] Saeid A. Al-Ghamdi, **Shamsad Ahmad** and Adamu Lawan “*Durability-Based Optimal Design Methodology for RC Members in Corrosive Environment*”, Proceedings of 5th International Conference on Durability of Concrete Structures, Jun 30–Jul 1, 2016, Shenzhen University, Shenzhen, Guangdong Province, China.
- [C29] Loai Mohammed Al-Owa and **Shamsad Ahmad**, “*Exploring Possibility of Using UHPC for Special Applications in Petrochemical Facilities*”, Proceedings of 17th International Conference on Advances in Materials and Processing Technologies (AMPT 2014), Dubai, November 17-20, 2014.
- [C28] S. K. Adekunle, **Shamsad Ahmad**, and M. Maslehuddin, “*The Effect of Aggregate Packing on the Performance of SCC using Dune Sand*”, Proceedings of Fifth North American Conference on the Design and Use of Self-Consolidating Concrete, Chicago, IL, USA, 12–15 May 2013.
- [C27] **Shamsad Ahmad**, “*Tests and Inspection Techniques for Monitoring Reinforcement Corrosion in Field and Laboratory*”, Proceedings of Symposium on Quality Control Laboratories in Structural Projects”, organized by the Ministry of Municipalities and Rural Affairs (MOMRA), Riyadh, 21 -23 April 2013.
- [C26] **Shamsad Ahmad**, “*Strategies for Sustainable Concrete Construction*”, Proceedings of 9th International Conference on Concrete for Sustainable Construction, Bahrain, 11-13 February 2013.
- [C25] Ashhad Imam, Abul K. Azad, **Shamsad Ahmad**, and Mohammed Maslehuddin “*Shear Strength of Corroded Reinforced Concrete Beams*”, Proceedings of 9th International Conference on Concrete for Sustainable Construction, Bahrain, 11-13 February 2013.
- [C24] Mohammed Al-Osta, Abul K. Azad, **Shamsad Ahmad**, and Mohammed Maslehuddin “*Residual Strength of Reinforced Concrete Columns and Beam-Columns Subjected to Corrosion*”, Proceedings of 9th International Conference on Concrete for Sustainable Construction, Bahrain, 11-13 February 2013.
- [C23] Saeid A. Al-Ghamdi, **Shamsad Ahmad** and Adamu Lawan “*Corrosion-based Service Life Prediction of RC Structures uses Electrochemical and Gravimetric Methods - A Comparative Study*”, Proceedings of 1st International Congress on Durability of Concrete (ICDC2012), Trondheim, Norway, June 18-21, 2012.
- [C22] **Shamsad Ahmad**, “*Development of Economical and Durable Mixtures of Self-Compacting Concrete*”, Proceedings of 11th International Conference on Concrete Engineering and Technology (CONCET2012), Putrajaya, Malaysia, June 11-14, 2012.
- [C21] Abul Kalam Azad, M. Al-Osta, **Shamsad Ahmad** and M. Maslehuddin “*Loss of Strength of*

- Reinforced Concrete Members from Corrosion Damage*", Proceedings of the 14th Middle East Corrosion Conference, Bahrain, February 12-15, 2012.
- [C20] **Shamsad Ahmad**, "*Exploring the Possibility of Producing Ultra High-Performance Concrete in Saudi Arabia*", Proceedings of Saudi International Advanced Materials Technologies Conference 2011, Riyadh, Saudi Arabia, October 17 to 19, 2011, pp. 68-71.
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- [C17] Abul Kalam Azad and **Shamsad Ahmad** "*Strength Prediction Models for Corroded RC Members*", paper presented and abstract published in the Proceedings of Jubail Corrosion-2010 Conference, October 25-26, 2010, Jubail, Saudi Arabia.
- [C16] Saeid A. Al-Ghamdi **Shamsad Ahmad**, and Moruf Olalaken Yusuf "*Durability-based Design Performance of Coarse Aggregates used for RC Structures in Corrosive Environments – A Comparative Study*", Proceedings of International Conference on Durability of Concrete Structures, 6-8 September, 2010, Cape Town, South Africa.
- [C15] Saeid A. Al-Ghamdi and **Shamsad Ahmad**, "*Multi-Criteria Optimal Design Methodology for Durable RC Members in Corrosive Environments –An Experimental Investigation*", Proceedings of International Conference on Durability of Concrete Structures, 26-27 November, 2008, Hangzhou, China, pp. 851-860.
- [C14] **Shamsad Ahmad**, S. U. Rahman and M. Abdul Kareem, "*Recent Developments in Sulfur Concrete Technology*" Proceedings of The 7th International Conference and Exhibition on Chemistry in Industry (CHEMINDIX 2007), 26-28 March 2007, Bahrain (Proceedings available only in CDs without a continuous page numbering).
- [C13] Abul K. Azad, **Shamsad Ahmad** and Syed A. Azher, "*A Damage-Propagation Model for Chloride-Induced Corrosion of Reinforced Concrete Beams*", Proceedings of 8th International Conference on Concrete in Hot & Aggressive Environments, Bahrain, 27-29 November 2006 (Proceedings available only in CDs without a continuous page numbering).
- [C12] **Shamsad Ahmad**, "*Strategy for Monitoring and Repairing of Concrete Bridges Exposed to Corrosive Environments*", Proceedings of Third Gulf Conference on Roads (TGCR06), Muscat, 6-8 March 2006, pp. 228-235.
- [C11] **Shamsad Ahmad**, Abul Kalam Azad, and Kevin F. Loughlin, "*A Study of Permeability and Tortuosity of Concrete*", Proceedings of 30th Conference on Our World in Concrete & Structures (OW 05), Singapore, 23-24 August 2005, pp. 153-160.
- [C10] **Shamsad Ahmad**, "*Methodology for the Assessment of Corrosion Damage in Reinforced Concrete Structures*", Proceedings of Eighth International Conference on Concrete Engineering & Technology (CONCET 2004), Kuala Lumpur, Malaysia, 19-21 April 2004, pp. 66-72.
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- 7th International Conference on Concrete in Hot and Aggressive Environments, Bahrain, 13-15 October 2003, pp. 211-225.
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- [C5] **Shamsad Ahmad**, S.M. Abbas and Asif Hussain, “*Environmental Problems due to Fly Ash and Its Use as Building Material*”, Proceedings of International Conference on New Challenges for Civil Engineers of Developing Countries in the 21st Century, 29 February, 1, 2 March, 1996, Civil Engineering Department, Jamia Millia Islamia, New Delhi, India, pp. 265-268.
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- [C1] **Shamsad Ahmad** and B. Bhattacharjee, “*Diagnostic Methods for Rehabilitation of Corrosion Damaged R.C. Structure*”, Proceedings of National Conference on Civil Engineering Materials and Structures, 19-21 January, 1995, Osmania University, Hyderabad, India, pp. 464-475.

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- [R22] **Shamsad Ahmad**, Mohammed Maslehuddin, Muhammad H. Al-Malack, and Omar S. B. Al-Amoudi “*Stabilization/Solidification Treatment of Soils Contaminated with Petroleum Oils using Indigenous Industrial Waste Products*”, **Technical Report of the Project # 15-ENV4643-04**, sponsored by National Science, Technology and Innovation Plan (NSTIP), KACST, Saudi Arabia, November 2020, (Reviewed and Accepted).
- [R21] Saheed Adekunle and **Shamsad Ahmad**, “*Investigation of Carbon Dioxide Sequestration Potential of Concrete Mixtures Incorporating Cement Kiln Dust*”, **Technical Report of the Project # SR181011**, sponsored by KFUPM Start-up Research Grant Funding, June 2020, (Reviewed and Accepted).
- [R20] Mohammed Al-Osta, **Shamsad Ahmad**, Muhammad Kalimur Rahman, and Faisal M. Mukhtar “*Ultra-high Performance Concrete for Shear Strengthening of RC Beams*”, **Technical Report of the Project # IN161055**, sponsored by KFUPM Internal Funding, June 2019 (Reviewed and Accepted).
- [R19] **Shamsad Ahmad**, Mohammed Maslehuddin, Salah U. Al-Dulaijan and Syed Imran Ali, “*Evaluation of Performance of Reactive Powder Concrete Mixtures Subjected to Cyclic Exposures and Elevated Temperatures*”, **Technical Report of the Project # RG1324**, sponsored by KFUPM Internal Funding (Concrete Research Group), May 2018. (Reviewed and Accepted).

- [R18] **Shamsad Ahmad**, Mohammed Maslehuddin, Omar S. Baghabra Al-Amoudi and Syed Imran Ali, “A Comprehensive Study on Accelerated Carbonation Curing of Concrete towards its Adoptability by Precast Industries in Saudi Arabia”, **Technical Report of the Project # RG1323**, sponsored by KFUPM Internal Funding (Concrete Research Group), May 2018. (Reviewed and Accepted).
- [R17] **Shamsad Ahmad**, Mohammed Maslehuddin and Abul K. Azad, “Mechanical Properties and Durability of Reactive Powder Concrete (RPC) Developed using Local Fine Aggregate”, **Technical Report of the Project # RG1005**, sponsored by KFUPM Internal Funding (Concrete Research Group), September 2015. (Reviewed and Accepted)
- [R16] **Shamsad Ahmad**, Husain J. Al-Gahtani, Mohammed Maslehuddin and Abul K. Azad, “A Comprehensive Study of Self-Compacting Concrete (SCC) towards its Adoptability in Saudi Arabia”, **Technical Report of the Project # RG1001**, sponsored by KFUPM Internal Funding (Concrete Research Group), March 2015. (Reviewed and Accepted).
- [R15] **Shamsad Ahmad**, Abul K. Azad, and Mohammed Maslehuddin, “Development of Ultra-High Performance Concrete for Corrosion-Resistance”, **Technical Report of the Project # AM-08-2009; Code Number: 09-ADV751-04**, sponsored by National Science, Technology and Innovation Plan (NSTIP), KACST, Saudi Arabia, March 2014. (Reviewed and Accepted)
- [R14] **Shamsad Ahmad**, and Nedal T. Ratrout, "Evaluation of the Maximum Transit Time for Ready-Mixed Concrete " **Technical Report of the Project # CE002367**, sponsored by APTC Ready Mixed Concrete Factory Co Ltd. Dammam, Saudi Arabia, February 2014. (Reviewed and Accepted)
- [R13] **Shamsad Ahmad**, Abul K. Azad, Mohammed Maslehuddin, and Mohamed A. Deriche, "Development of a Set-up and Procedure for In-situ Monitoring of Reinforcement Corrosion in Concrete", **Technical Report of the Project # CoRE-C-CR-09-2010**, sponsored by Center of Research Excellence in Corrosion (CoRE-C) at KFUPM, September 2013. (Reviewed and Accepted)
- [R12] Abul K. Azad and **Shamsad Ahmad**, Mohammed Maslehuddin "Prediction of Residual Strength of Corroded Reinforced Concrete Columns and Beam-Columns", **Technical Report of the Project # CoRE-C-CR-11-2010**, sponsored by Center of Research Excellence in Corrosion (CoRE-C) at KFUPM, January 2013. (Reviewed and Accepted)
- [R11] Abul K. Azad and **Shamsad Ahmad** "An Exploratory Study of a Newly-Developed Ultra-High Performance Concrete (Ductal®) for its Applications in Saudi Arabia", **Technical Report of the Project # SB090016**, sponsored by KFUPM under SABIC Grants, April 2011. (Reviewed and Accepted)
- [R10] M. Maslehuddin, **Shamsad Ahmad**, Mesfer M. Al-Zahrani, and Ibelwaleed Ali Hussein “A Study on Utilizing Modified Sulfur Concrete in Structural Components and Development of a Stable Sulfur Modifier”, sponsored by **Saudi ARAMCO (P.N. CER 2342)**, December 2009. (Reviewed and Accepted)
- [R9] Saeid A. Al-Ghamdi and **Shamsad Ahmad**, “Experimental and Analytical Unified Multi-criterion Optimal Design of Reinforced Concrete Beams and Columns”, **Technical Report of the Project # AT 23-21**, sponsored by King Abdul Aziz City for Science and Technology (KACST), November 2009. (Reviewed and Accepted)
- [R8] Abul K. Azad and **Shamsad Ahmad** "A Study of the Size-effect of Corroded Reinforced Concrete Beams in Prediction of Residual Strength" **Technical Report of the Project # SABIC/2005-03**, sponsored by KFUPM under SABIC Grants, May 2008. (Reviewed and Accepted)
- [R7] M. Maslehuddin, O.S.B. Al-Amoudi and **Shamsad Ahmad**, "Formulating Supplementary Compliance Criteria for Locally Produced Concrete”, **Technical Report of the Project #**

- CER 2308** sponsored by *Saudi ARAMCO*, April 2007. (Reviewed and Accepted)
- [R6] **Shamsad Ahmad** and Abul Kalam Azad "*A Study of Self-Compacting Concrete using Local Marginal Aggregates*" **Technical Report of the Project # FT/2004/24** sponsored by KFUPM under SABIC Fast Track Grants, October 2006. (Reviewed and Accepted)
- [R5] Ikram Husain, Nesar Merah, Husain J. Al-Gahtani, **Shamsad Ahmad**, and Fareeduddin, "*Study on PVC Pipe Products and Causes of Failures*" **Technical Report of the Project # CRP2216** sponsored by SABIC, December 2005. (Reviewed and Accepted)
- [R4] O.S.B. Al-Amoudi **Shamsad Ahmad**, and M. Maslehuddin, "*Establishing Quality Compliance Criteria for Concrete in Eastern Saudi Arabia*" **Technical Report of the Project # ARI-022** sponsored by KFUPM under ARI Grants, July 2005. (Reviewed and Accepted)
- [R3] Abul Kalam Azad, **Shamsad Ahmad**, and Kevin F. Loughlin "*A Study of the Relationship between Permeability and Tortuosity of Concrete*" **Technical Report of the Project # ARI-016** sponsored by KFUPM under ARI Grants, January 2005. (Reviewed and Accepted)
- [R2] Abul K. Azad and **Shamsad Ahmad** "*Prediction of Residual Strength of Corrosion-Damaged Reinforced Concrete Beams*" **Technical Report of the Project # SABIC/2002-02**, sponsored by KFUPM under SABIC Grants, October 2004. (Reviewed and Accepted)
- [R1] Abul K. Azad and **Shamsad Ahmad**, and M.H. Baluch, "*Evaluation of Sulfur Concrete Technology for Local Applications*" **Technical Report of the Project # CE2231**, sponsored by Saudi Aramco, July 2003. (Reviewed and Accepted)

Appendix-6:
List of Technical Conferences, Workshops and Symposiums
Attendance and Presentations

Attendance with Presentation

1. **Shamsad Ahmad** “*Effects of Total Dissolved Solids Content on Concrete Properties*”, American Concrete Institute’s (ACI’s) Webinar on Seawater-Mixed Concrete—A New Class of Sustainable Concrete, August 5-6, 2020, hosted by the University of Miami, USA.
2. **Shamsad Ahmad** and Saheed Kolawole Adekunle “*Utilization of Limestone Powder and Metakaolin as Mineral Fillers in High Performance Self-Compacting Concrete*”, 3rd International Conference on Calcined Clay for Sustainable Concrete, October 15 to 17, 2019, IIT Delhi, New Delhi, India.
3. Mohammed Al-Huri, **Shamsad Ahmad**, Mohammed Al-Osta, Ali Al-Gadhib, Muhammad Kalimur Rahman “*Numerical Investigation of RC Beam Strengthened with UHPFRC Layers Using Cohesive Surface Bonding Method*”, 5th International Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, August 27 to 29, 2019, Potsdam, Germany.
4. **Shamsad Ahmad**, “*Mechanical Properties and Durability Characteristics of Reactive Powder Concrete Developed Using Fine Quartz Sand*”, 28th Biennial National Conference of the Concrete Institute of Australia (Concrete 2017), 22-25 October 2017, Adelaide, Australia.
5. **Shamsad Ahmad**, and Saheed Kolawole Adekunle “*A Study on Producing Self-Compacting Concrete Mixtures using Different Waste Materials as Mineral Fillers*”, International Conference on Advances in Construction Materials and Systems (ICACMS-2017), 3-8 September 2017, IIT Madras, Chennai, India.
6. **Shamsad Ahmad**, “*Use of Alternative Waste Materials in Producing Ultra-High Performance Concrete*”, 1st International Conference on Advances in Sustainable Construction Materials and Civil Engineering Systems (ASCMCES-17), 18-20 April 2017, University of Sharjah, United Arab Emirates.
7. Attended the 5th Meeting of the Directors of Science and Technology Units in Saudi Universities and Ministries and **presented the Poster related to the completed NSTIP Project** (Development of Ultra-High performance Concrete for Corrosion Resistance) in the NSTIP Projects’ Exhibition organized by the Deanship of Research, KFUPM, 26th November 2014.
8. **Shamsad Ahmad**, “*Tests and Inspection Techniques for Monitoring Reinforcement Corrosion in Field and Laboratory*”, Symposium on Quality Control Laboratories in Structural Projects”, organized by the Ministry of Municipalities and Rural Affairs (MOMRA), Riyadh, 21 -23 April 2013.
9. **Shamsad Ahmad**, “*High Performance Concrete with Local Materials*”, 6th Workshop on “Concrete Deterioration and its Prevention”, organized by the Center for Engineering Research, Research Institute, KFUPM, March 20, 2013.
10. **Shamsad Ahmad**, “*Strategies for Sustainable Concrete Construction*”, 9th International Conference on Concrete for Sustainable Construction, Bahrain, 11-13 February 2013.
11. **Shamsad Ahmad**, “*Exploring the Possibility of Producing Ultra High-Performance Concrete in Saudi Arabia*”, Saudi International Advanced Materials Technologies Conference 2011, Riyadh, Saudi Arabia, October 17 to 19, 2011.
12. **Shamsad Ahmad**, Mohammed Maslehuddin, and Abul Kalam Azad, “*Performance of Reactive Powder Concrete Produced using Fine Quartz Sand*”, 7th Central European Congress on Concrete Engineering 2011, Balatonfured, Hungary, 22-23 September 2011.
13. **Shamsad Ahmad**, Abul Kalam Azad, Mohammad Maslehuddin, and Syed Imran Ali “*Measurement of Reinforcement Corrosion Rate in Concrete Structures*”, paper presented and

- abstract published in the Proceedings of Jubail Corrosion-2010 Conference, October 25-26, 2010, Jubail, Saudi Arabia.
14. **Shamsad Ahmad**, “*Requirements for Concrete Durability*”, **2nd Workshop on “Concrete Deterioration and its Prevention**”, organized by the Center for Engineering Research, Research Institute, KFUPM, November 7, 2007.
 15. **Shamsad Ahmad**, S. U. Rahman and M. Abdul Kareem, “*Recent Developments in Sulfur Concrete Technology*”, **the 7th International Conference and Exhibition on “Chemistry in Industry (CHEMINDIX 2007)”**, 26-28 March 2007, Bahrain.
 16. *Strategy for Monitoring and Repairing of Concrete Bridges Exposed to Corrosive Environments, Third Gulf Conference on Roads (TGCR06)*, Muscat, 6-8 March 2006.
 17. *A Study of Permeability and Tortuosity of Concrete, 30th Conference on Our World in Concrete & Structures (OW 05)*, Singapore, 23-24 August 2005.
 18. *Methodology for the Assessment of Corrosion Damage in Reinforced Concrete Structures, Eighth International Conference on Concrete Engineering & Technology (CONCET 2004)*, Kuala Lumpur, Malaysia, 19-21 April 2004.
 19. *Improving Durability of R.C. Members through Optimum Selection of the Levels of Corrosion Cracking Factors, 7th International Conference on Concrete in Hot and Aggressive Environments*, Bahrain, 13-15 October 2003.
 20. *Reinforcement Corrosion in the Arabian Gulf and its Prevention– A Review*”, **7th International Conference on Concrete in Hot and Aggressive Environments**, Bahrain, 13-15 October 2003.
 21. *Recommendations for Improvements in the selected PG Courses under Environmental Engineering Program, National Workshop on Curriculum Development for Post Graduate Program in Environmental Engineering & Management*, May 5, 2001, Department of Civil Engineering, Indian Institute of Technology (IIT), Delhi, India.
 22. *Applications of Information Technology in Environmental Management, Workshop on Role of IT in the Management of Environment*, February 24, 2001, Faculty of Engineering & Technology, Jamia Millia Islamia, New Delhi, India.
 23. *Wastewater Management for Electroplating Industries, International Conference on Environmental Challenges for the New Millennium*, 25th-27th Nov. 1999, New Delhi, India.
 24. *Effect of Acidic Waste Water on Mortar and Concrete, International Symposium on Innovative World of Concrete-98*, Calcutta, India
 25. *Influence of Chloride Content, Cover, and Concrete Mix Parameters on Post Depassivation Service Life of Chloride Contaminated R.C. Structures, International Conference on Maintenance and Durability of Concrete Structures*, 4-6 March, 1997, J.N.T. University, Hyderabad, India.
 26. *Rebar Corrosion Risk due to Free Chloride Under Tropical Conditions, International Conference on New Challenges for Civil Engineers of Developing Countries in the 21st Century*, 29 February, 1, 2 March, 1996, Civil Engineering Department, Jamia Millia Islamia, New Delhi, India.
 27. *Environmental Risk Assessment, International Conference on New Challenges for Civil Engineers of Developing Countries in the 21st Century*, 29 February, 1, 2 March, 1996, Civil Engineering Department, Jamia Millia Islamia, New Delhi, India.
 28. *Environmental Problems due to Fly Ash and Its Use as Building Material, International Conference on New Challenges for Civil Engineers of Developing Countries in the 21st Century*, 29 February, 1, 2 March, 1996, Civil Engineering Department, Jamia Millia Islamia, New Delhi, India.

29. *Diagnostic Methods for Rehabilitation of Corrosion Damaged R.C. Structure*, **National Conference on Civil Engineering Materials and Structures**, 19-21 January, 1995, Osmania University, Hyderabad, India.

Attendance without Presentation

1. *The Concrete Convention and Exposition- Spring 2018*, organized by American Concrete Institute (ACI), Salt Lake City, Utah, USA, March 25 to 29, 2018.
2. *Blackboard Workshop: Tools for Communication with Students*, organized by the e-Learning Center, Deanship of Academic Development, KFUPM, Dhahran, Saudi Arabia, March 30, 2016.
3. *The 3rd Prescriptive to Performance - Based Specifications Technical Seminar*, Al-Khobar, Saudi Arabia, February 16, 2015.
4. *Workshop on Senior Design Project*, organized by the Office of the Vice Rector for Academic Affairs, KFUPM, Dhahran, Saudi Arabia, December 8, 2014.
5. *17th International Conference on Advances in Materials and Processing Technologies (AMPT 2014)*, Dubai, November 17-20, 2014.
6. *3rd International Conference of e-Learning and Distance Education (eLi3)*, organized by the Ministry of Higher Education Kingdom of Saudi Arabia and the National Centre for e-Learning and Distance Education, Riyadh, February 4 –7, 2013
7. *6th Graduate Seminar Day*, organized by the Deanship of Graduate Studies, KFUPM, Dhahran, Saudi Arabia, February 12, 2012. Role: Acted as judge during Session 5B for evaluating the papers presented by CE Graduate students seeking approval for presenting their papers in the 3rd Saudi Student Conference 2012.
8. *Workshop on RAs/LBs Assigned to Research Centers of RI*, organized by the Deanship of Graduate Studies, KFUPM, Dhahran, Saudi Arabia, February 7, 2012.
9. *Workshop on "Using Course-Based Outcomes Assessment for More Effective Teaching in Graduate Programs"*, organized by the Program Assessment Center, DAD, KFUPM, December 20, 2011.
10. *Workshop on "Instituting Outcomes Assessment for Graduate Programs"*, organized by the Program Assessment Center, DAD, KFUPM, December 18, 2011.
11. **5th Workshop on "Concrete Deterioration and its Prevention"** organized by the Center for Engineering Research, Research Institute, KFUPM, October 26, 2011.
12. **4th Workshop on "Concrete Deterioration and its Prevention"** organized by the Center for Engineering Research, Research Institute, KFUPM, October 27, 2011.
13. **11th Arab Structural Engineering Conference** organized by Civil Engineering Department, KFUPM, Dhahran, Saudi Arabia, October 25 - 27, 2009.
14. **34th Conference on Our World in Concrete & Structures (OW09)** organized by CI-Premier Conference Organization, Singapore, August 16 to 18, 2009.
15. **2nd Workshop on Engineering Design**, organized by College of Engineering Sciences, KFUPM, April 19, 2009.
16. **International Conference on Advanced Concrete Technology in the Arabian Gulf** organized by **CANMET/ACI**, Dubai, November 19-20, 2008.
17. **The Advanced Concrete NDT Seminar** organized in Civil Engineering Department, American University of Dubai by Germann Instruments Company, Denmark, November 18, 2008.

18. **International RILEM Symposium on Concrete Modelling – CONMOD’08, Delft, The Netherlands** organized by, The Faculty of Civil Engineering & Geosciences, Delft University of Technology, May 26 to 28, 2008
19. **12th Middle East Corrosion Conference and Exhibition, Manama, Kingdom of Bahrain** organized by, The Bahrain Society of Engineers in association with the Saudi Arabian Section of NACE, February 3 to 6, 2008.
20. **The Seventh Saudi Engineering Conference, Riyadh, Kingdom of Saudi Arabia** organized by KSU, Riyadh, Saudi Arabia, December 2 to 5, 2007.
21. **Workshop on "Concrete Deterioration and Prevention"**, organized by the Center for Engineering Research, Research Institute, KFUPM, February 28, 2007.
22. **Workshop on "Building Your Academic Portfolio"**, organized by the DAD, KFUPM, February 25 & 27, 2007.
23. **Workshop on "Engineering Design"**, organized by the College of Engineering Sciences, KFUPM, April 11 & 12, 2006.
24. **Training workshop on "Publishing Content and Quizzes in WebCT"**, organized by the DAD, KFUPM, November 20 & 22, 2005.
25. **Training course on "Advanced MS Windows"** organized by the ITC, KFUPM, September 4 to 8, 2004.
26. **Training workshop on "Introduction to WebCT"**, organized by the DAD, KFUPM, March 7 & 9, 2004.
27. **The Sixth Saudi Engineering Conference** organized by KFUPM, Dhahran, Saudi Arabia, October 21 - 23, 2002.
28. **Workshop on "Increasing Effectiveness as a University Teacher"** organized by the Academic Development Center, KFUPM, September 9-11, 2002.
29. **Workshop on "How to be an Effective University Teacher"** organized by the Academic Development Center, KFUPM, September 7-8, 2002.
30. **Symposium on "Certification of Practicing Engineers in Saudi Arabia"**, organized by the Department of Civil Engineering, KFUPM, April 30, 2002.
31. **Discussion Forum on "Enhancing Students Learning at KFUPM"**, organized by the Academic Development Center, KFUPM, March 26, 2002.
32. **Workshop on "Striving for Excellence in University Teaching and Learning"** organized by the Academic Development Center, KFUPM, August 27-29, 2001.

Appendix-7: **List of Research Papers, Proposals and Reports Reviewed**

Research Papers Reviewed for International Journals

- Construction and Building Materials, UK (33 Papers)
- American Concrete Institute (ACI) Materials Journal, USA (25 Papers)
- AJSE Journal, Saudi Arabia (18 Papers)
- Cement Concrete and Composites, UK (13 Papers)
- ASCE Journal of Performance of Constructed Facilities, USA (8 Papers)
- Journal of King Saud University: Engineering Sciences, Saudi Arabia (5 Papers)
- Anti-Corrosion Methods and Materials, U.K. (5 Papers)
- Journal of Building Engineering, Netherlands (5 Papers)
- European Journal of Environmental and Civil Engineering, France (5 Papers)
- Engineering Structures Journal, USA (4 Papers)
- Advances in Civil Engineering, Egypt (4 Papers)
- Journal of Computers and Concrete, South Korea (4 Papers)
- KSCE Journal of Civil Engineering, South Korea (3 Papers)
- Advances in Concrete Construction, *An International Journal*, Korea (3 Papers)
- International Journal of Concrete Structures and Materials, Korea (3 Papers)
- Journal of Testing and Evaluation, ASTM, USA (3 Papers)
- Structural Engineering and Mechanics, *An International Journal*, South Korea (2 Papers)
- Journal of Engineering Research, Kuwait (2 Papers)
- Ain Shams Engineering Journal, Egypt (2 Papers)
- Construction Materials Journal, UK (1 Paper)
- CIGR Journal, Japan (1 Paper)
- Journal of Materials Chemistry and Physics, Taiwan (1 Paper)
- Engineering Failure Analysis, UK (1 Paper)
- Journal of Environmental Solutions, Spain (1 Paper)
- Scientia Iranica, Iran (1 Paper)
- The Scientific World Journal, USA (1 Paper)
- Electronic Journal of Polish Agricultural Universities (EJPAU), Poland (1 Paper)
- Journal of Zhejiang University-SCIENCE A, China (1 Paper)
- Computers and Geotechnics, U.K. (1 Paper)
- Journal of Human Resource and Sustainability Studies, USA (1 Paper)
- Structural Concrete, Germany (1 Paper)
- Theoretical and Applied Fracture Mechanics, Netherlands (1 Paper)
- Journal of Advanced Concrete Technology, Japan (1 Paper)
- Materials Today: Proceedings, UK (1 Paper)
- Journal of CO2 Utilization, UK (1 Paper)
- Qassim University Journal of Engineering & Computer Sciences, KSA (1 Paper)

Research Papers Reviewed for Proceedings of Conferences/Seminars

- The Sixth Saudi Engineering Conference, Saudi Arabia, 2002 (1 Paper)
- The Seventh Saudi Engineering Conference, Saudi Arabia, 2007 (2 Papers)
- 11th Arab Structural Engineering Conference, Saudi Arabia, 2009 (2 Papers)
- 3rd Saudi Student Conference 2012 (3 Papers)
- 9th International Conference on Concrete for Sustainable Construction (1 Paper)

- Bahrain, 2013
- First International Conference on Materials Science (ICMS2015) (2 Papers)
Shanghai, China, 2015
- 3rd International Conference on Calcined Clays for Sustainable Concrete (1 Paper)
New Delhi, India, 2019
- 3rd International Conference on Innovative Technologies for Clean and Sustainable Development (ITCSD2020), Chandigarh, India, 2020 (4 Papers)

Research Project Proposals & Final Reports

- Central Soil and Materials Research Station, New Delhi, India (1 Proposal)
(Under Ministry of Water Resources, Government of India).
- Deanship of Scientific Research, KFUPM (8 Proposals)
Dhahran, Saudi Arabia, 2009, 2011, 2013, 2014, 2015, 2016, 2018
- Deanship of Scientific Research, University of Dammam (1 Proposal)
Dammam, Saudi Arabia, December 2010.
- Deanship of Scientific Research, King Faisal University (4 Proposals)
Hofouf, Saudi Arabia, August 2016.
- Deanship of Scientific Research, KFUPM (3 Final Reports)
Dhahran, Saudi Arabia, December 2015, February 2017, April 2020

Published Books Evaluation

- Deanship of Scientific Research, KFUPM (1 Book)
Dhahran, Saudi Arabia, September 2020

Online Course Development Proposals & Final Reports

- Development of the Course Soil Stabilization and Site Improvement (1 Proposal)
Online, Refereed by: Deanship of Academic Development
KFUPM, Dhahran, Saudi Arabia, in January 2012
- Development of the Course Urban Planning Methods Online, (1 Proposal)
Refereed by: Deanship of Academic Development
KFUPM, Dhahran, Saudi Arabia, in January 2012
- Development of the Course Surveying Online, (1 Proposal)
Refereed by: Deanship of Academic Development
KFUPM, Dhahran, Saudi Arabia, in February 2014
- Development of the Course Structural Mechanics online (1 Report)
Refereed by: Deanship of Academic Development
KFUPM, Dhahran, Saudi Arabia, in December 2008

Academic Program Proposals

- Master Programs in Civil & Construction Engineering Department (1 Proposal)
Refereed by: Imam Abdulrahman bin Faisal University
Dammam, Saudi Arabia, in July 2020
- Master Programs in Materials Science and Engineering (MSE): MS and MEng (1 Proposal)
Refereed by: Mechanical Engineering Department, KFUPM

Dhahran, Saudi Arabia, in July 2020

Academic Program Accreditation Reports

- Self-Evaluation Scales (SES) Report for Civil Engineering (CE) Program, (1 Report)
NCAAA, Refereed by: Department of Civil Engineering
King Khalid University, Abha, Saudi Arabia, November 2015
- Self-Evaluation Scales (SES) Report for Civil Engineering (CE) Program, (1 Report)
NCAAA, Refereed by: Department of Civil Engineering
Jubail University College (JUC), Jubail, Saudi Arabia, in December 2018
- Self-Study Report for Postgraduate Programs, (1 Report)
NCAAA, Refereed by: Department of Civil Engineering
King Saud University, Riyadh, Saudi Arabia, in December 2020

Appendix-8: **List of Committees and Other Community Services**

Departmental Committees (Formed by the Departmental Chairman)

1. ***Member, Departmental Lab. Committee***, Civil Engineering Department, KFUPM, Dhahran, Saudi Arabia, September 2001 to August 2002, September 2003 to August 2004, September 2009 to March 2011.
2. ***Member, Departmental Activities Committee***, Civil Engineering Department, KFUPM, Dhahran, Saudi Arabia, September 2001 to August 2003.
3. ***Chairman, Departmental Lab. Committee***, Civil Engineering Department, KFUPM, Dhahran, Saudi Arabia, September 2002 to August 2003.
4. ***Member, Subcommittee on Admitting non-CE Graduates to the CE MS Program***, Civil Engineering Department, KFUPM, Dhahran, Saudi Arabia, 2003-2004.
5. ***Chairman, Departmental Activities Committee***, Civil Engineering Department, KFUPM, Dhahran, Saudi Arabia, September 2003 to August 2004.
6. ***Convener, Structural Engineering Group***, Civil Engineering Department, KFUPM, Dhahran, Saudi Arabia, 2006 to present.
7. ***Member, CE Promotion Committee***, Civil Engineering Department, KFUPM, Dhahran, Saudi Arabia, September 2004 to August 2007.
8. ***Member, CE Safety Committee***, Civil Engineering Department, KFUPM, Dhahran, Saudi Arabia, March 2006 to August 2008.
9. ***Member, Special Functions Committee of the College of Engineering Sciences***, KFUPM, Dhahran, Saudi Arabia, 2007-2008.
10. ***Member, Curriculum & Self-Assessment Committee***, Civil Engineering Department, KFUPM, Dhahran, Saudi Arabia, 2007-2008.
11. ***Member, Textbook Committee***, Civil Engineering Department, KFUPM, Dhahran, Saudi Arabia, September 2004 to August 2009.
12. ***Chairman, CE Health, Safety and Security Committee***, Civil Engineering Department, KFUPM, Dhahran, Saudi Arabia, February 2008 to August 2009.
13. ***Chairman, Departmental IT Committee***, Civil Engineering Department, KFUPM, Dhahran, Saudi Arabia, September 2009 to 2011 (Role: Coordinating the Civil Engineering Dept. with the Information Technology Center in Purchasing Software and Hardware).
14. ***Member, Program Assessment Committee***, Civil Engineering Department, KFUPM, Dhahran, Saudi Arabia, September 2008 to February 2011.
15. ***Member, Departmental IT Committee***, Civil Engineering Department, KFUPM, Dhahran, Saudi Arabia, 2011-2012.
16. ***Graduate Coordinator and Member of the Departmental Graduate Committee***, Civil Engineering Department, KFUPM, Dhahran, Saudi Arabia, September 2009 to August 2013. (Role: Handling all issues concerning CE Graduate Students from admissions to thesis submissions, petitions, etc.).
17. ***Graduate Coordinator and Chairman of the Departmental Graduate Student Admission & Monitoring Committee***, Civil Engineering Department, KFUPM, Dhahran, Saudi Arabia,

September 2013 to present. (Role: Handling all issues concerning CE Graduate Students from admissions to thesis submissions, petitions, etc.).

18. **Graduate Coordinator and Chairman of the Departmental Graduate Committee**, Civil Engineering Department, KFUPM, Dhahran, Saudi Arabia, September 2015 onwards. (Role: Handling all issues concerning CE Graduate Students from admissions to thesis submissions, petitions, etc.).
19. **Member, Departmental Course Offering Committee**, Civil Engineering Department, KFUPM, Dhahran, Saudi Arabia, September 2011 to December 2014, January 2018 onwards.
20. **Member, Departmental Program Assessment Committee responsible for ABET**, Civil Engineering Department, KFUPM, Dhahran, Saudi Arabia, January 2015 onwards.

College Committees (Formed by the Concerned Deans)

1. **Member, e-Learning Center Committee**, Deanship of Academic Development, KFUPM, Dhahran, Saudi Arabia, 2009-2010 and 2012-2013. (Role: Drafting of the Guidelines for implementing Online Courses in Blended Mode; Revision of the Guidelines for Authoring Online Courses, Revision of Proposals for Authoring Online Courses).
2. **Member, College Research Committee**, College of Engineering, KFUPM, Dhahran, Saudi Arabia, September 2019 to February 2021. (Role: To provide opinion to the Dean of Engineering on means of promoting continuous improvement of research and scholarly activities of the College. It will also provide its assistance on research related activities as and when asked).

University Committees (Formed by the President of University)

1. **Nominated Member, Special Need Affairs Committee**, University Standing Committee, KFUPM, Dhahran, Saudi Arabia, 2011-2012.
2. **Elected Member, Research Committee**, University Standing Committee, KFUPM, Dhahran, Saudi Arabia, 2016-2017.
3. **Elected Member, Faculty Affairs Committee**, University Standing Committee, KFUPM, Dhahran, Saudi Arabia, 2018-2019, 2019-2020, 2020-2021 (*during three consecutive academic years*)
4. **Nominated Member, Concentration (CX) Areas Sponsorship Selection Committee**, University Standing Committee, KFUPM, Dhahran, Saudi Arabia, July 2020 to ----

Ad-hoc Committees

1. **Member, Ad-hoc Committee** constituted by the Deanship of Graduate Studies, KFUPM, *for drafting write up on the proposed New Graduate Program in Corrosion Engineering*, Oriented Towards Market Needs, October-December 2005.
2. **Member, Ad-hoc Committee** constituted by the Center for Engineering Research, Research Institute, KFUPM, *for reviewing KFUPM capabilities for Corrosion Research*, 2006-2007.
1. **Chairman, CE Ad-hoc Committee for Preparation for First Annual Research Day**, held on May 2, 2010, KFUPM, Dhahran, Saudi Arabia.
2. **Member, Ad-hoc Committee for Reviewing New CE and ACE Programs in Civil Engineering Department**, 2011, KFUPM, Dhahran, Saudi Arabia.
3. **Member, Ad-hoc Committee for Hiring Faculty Members in Civil Engineering Department**, 2010-2011, KFUPM, Dhahran, Saudi Arabia.

4. *Member, Ad-hoc Committee for Selection of Suitable Book and Study Materials for the Course CE 312: Introduction to CE Design*, 2012, KFUPM, Dhahran, Saudi Arabia.
5. *Member, Ad-hoc Committee for developing guidelines for an Undergraduate Research Course in Civil Engineering Department*, 2012, KFUPM, Dhahran, Saudi Arabia.

Other Committees and Councils (On and Off Campus)

1. *Member, Executive Committee of the [Center of Research Excellence in Corrosion \(CoRE-C\)](#)*, KFUPM, Dhahran, Saudi Arabia, November 2008 to November 2009.
2. *Member, Concrete Research Group (CRG)*, KFUPM, Dhahran, Saudi Arabia, June 2009-2010.
3. *In-charge, Building Materials Lab.*, Civil Engineering Department, Jamia Millia Islamia, New Delhi, India, August 1995 to August 2001.
4. *Member, Steering Committee for Course Revisions*, Civil Engineering Department, Jamia Millia Islamia, New Delhi, India, Year 2000-2001.
5. *Member, Xth Plan Proposal Preparation Committee*, Civil Engineering Department, Jamia Millia Islamia, New Delhi, India, Year 2001.
6. *Member, Panel of Experts* for finalizing the curriculum of Civil Engineering Materials Laboratory course for Distant Engineering Education, Indira Gandhi National Open University (IGNOU), New Delhi, India.

Social, Community and Other Activities and Involvements

1. *Member, Official Team which Visited Top Indian Universities/Institutes for the Recruitment of Talented Graduate Students at KFUPM*, during March 15 to 24, 2009.
2. *Parents Elected Honorary Member of the Managing Committee (Governing Body) of [International Indian School, Dammam \(IISD\), Saudi Arabia](#)*, November 13, 2008 to May 11, 2015. *IISD* has a total number of more than 15,000 students and more than 700 teaching and administrative staff.

Public Seminars, Lectures and Workshops

1. Delivered a Public Lecture on “*Career Management*” in International Indian School, Dammam (IISD), Saudi Arabia, on November 30, 2013. Attended by more than 500 persons including the parents and teachers.