



SCHOOL OF INFRASTRUCTURE

DEPARTMENT OF CIVIL ENGINEERING

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Date: 12.05.2025

A report on the seminar on “Corrosion Prevention and Control in RC Structures (CPCRS 25)” at UiTM, Malaysia

Date: 16.04.2025

Time: 9.30 am to 4.00 pm

I. Preamble:

A one-day seminar on “Corrosion Prevention and Control in RC Structures” was jointly organized by the Department of Civil Engineering, B. S. Abdur Rahman Crescent Institute of Science and Technology, Institute for Infrastructure Engineering and Sustainable Management (IIESM), School of Civil Engineering, College of Engineering, Universiti Teknologi MARA, Shah Alam, and Concrete Society of Malaysia (CSM). The seminar was conducted at Al-Jazari Seminar Hall, College of Engineering, UiTM, Shah Alam, Malaysia on 16th April 2025. This seminar was organised as a part of MoA between between B. S. Abdur Rahman Crescent Institute of Science and Technology and Universiti Teknologi Mara for the collaborative research project titled “Influence of Chemical and Mineral Admixtures on the Performance of Galvanised Steel Rebars” under a mutual funding scheme.

II. ABOUT THE SESSION, SPEAKERS AND TOPICS

The purpose of the one day seminar was to create awareness among the civil engineering industry personnel on Corrosion Prevention and Control in RC structures. The seminar focussed on the durability of structures and corrosion prevention in RC structures.



Lecture 1:

- Durable concrete structures: Significance and influencing parameters – Dr. Mohd Fadzil Arshad, Professor (TS) and Director, Institute for Infrastructure Engineering and Sustainable Management (IIESM), School of Civil Engineering, College of Engineering, Universiti Teknologi MARA (UiTM).

Lecture 2:

- Corrosion of steel in concrete: Mechanism, causes, consequences and control measures - Dr. M.S. Haji Sheik Mohammed, Professor and Dean, School of Infrastructure, Department of Civil Engineering, BSACIST

Lecture 3:

- Protective coatings for corrosion prevention in concrete structures - Dr. M.S. Haji Sheik Mohammed, Professor and Dean, School of Infrastructure, Department of Civil Engineering, BSACIST

Lecture 4:

- Inhibitors for corrosion prevention/control in RC structures - Dr. M.S. Haji Sheik Mohammed, Professor and Dean, School of Infrastructure, Department of Civil Engineering, BSACIST

Lecture 5:

- Corrosion control in distressed RC Structures using sacrificial anodes - Dr. Roopa V, Asst Professor (Sr. Gr.), Department of Civil Engineering, BSACIST

16 APRIL 2025

**Al-Jazari Seminar Hall
College of Engineering
UiTM, Shah Alam
MALAYSIA**

**One Day Seminar on
CORROSION PREVENTION
& CONTROL IN RC
STRUCTURES
(CPCRS 2025)**





TIME	TOPIC	SPEAKER / RESOURCE PERSON
8:00 to 9:00 am	REGISTRATION	
9:00 to 09:30 am	Inauguration	Dr. Mohd Fadzil Arshad, Professor (TS), Institute for Infrastructure Engineering and Sustainable Management (IIESM) & School of Civil Engineering, College of Engineering, Universiti Teknologi MARA (UiTM)
09:30 to 10:30 am	Durable Concrete Structures: Significance and influencing parameters	Dr. M.S. Haji Sheik Mohammed, Professor / Dr. Roopa V, Asst Professor (Sr. Gr.), Department of Civil Engineering, BSACIST
10:00-11:00 am	TEA BREAK	
11:00 to 12:00 noon	Corrosion of Steel in Concrete: Mechanism, causes consequences and control measures	Dr. M.S. Haji Sheik Mohammed, Professor, Department of Civil Engineering, BSACIST
12:00 to 1:00 pm	Protective Coatings for corrosion prevention in concrete structures	Dr. M.S. Haji Sheik Mohammed, Professor, Department of Civil Engineering, BSACIST
1:00 to 2:00 pm	LUNCH BREAK	
2:00 to 3:00pm	Inhibitors for corrosion prevention / control in RC structures	Dr. M.S. Haji Sheik Mohammed, Professor, Department of Civil Engineering, BSACIST
3:00 to 4:00pm	Corrosion control in distressed RC Structures using sacrificial anodes	Dr. Roopa V, Asst Professor (Sr. Gr.), Department of Civil Engineering, BSACIST
4:00 pm	VALEDICTORY & CERTIFICATE DISTRIBUTION	



SCAN TO REGISTER

REGISTRATION FEE
RM 200

CPD & CCE TRAINING HOURS FROM BEM & CIDB Will be Applied

**Seminar Brouchure
Programme Schedule**

Time	Topic	Speaker / Resource Person
9.00 - 9.30 a.m.	Inauguration	
9.30 - 10.30 a.m.	Durable Concrete Structures : Significance and influencing parameters	Dr. Mohd Fadzil Arshad, Professor (TS), Institute for Infrastructure Engineering and sustainable Management (IIESM), School of Civil Engineering, College of Engineering, Universiti Teknologi MARA (UiTM)
10.30 – 11.00 a.m.	Tea Break	
11:00 to 12:00 Noon	Corrosion of Steel in Concrete : Mechanism, causes consequences and control measures	Dr. M.S. Haji Sheik Mohammed, Professor / Dr.Roopa V, Asst Professor (Sr. Gr.), Department of Civil Engineering, BSACIST
12:00 to 1.00 pm	Protective Coatings for corrosion prevention in concrete structures	Dr. M.S. Haji Sheik Mohammed, Professor, Department of Civil Engineering, BSACIST

1:00 to 2.00 pm	Lunch Break	
2:00 to 3 :00pm	Inhibitors for corrosion prevention / control in RC structures	Dr. M.S. Haji Sheik Mohammed, Professor, Department of Civil Engineering, BSACIST
3:00 to 4:00pm	Corrosion control in distressed RC Structures using sacrificial anodes	Dr.Roopa V, Asst Professor (Sr. Gr.), Department of Civil Engineering, BSACIST
4.00 p.m.	Valedictory & Certificate Distribution	

Dr. Sakiah Abdul Kudus, Associate Professor, College of Engineering, Universiti Teknologi Mara, welcomed the gathering and gave an overview of the programme. The workshop was inaugurated by Dr. Mohd Fadzil Arshad, Professor (TS), Director, Institute for Infrastructure Engineering and Sustainable Management (IIESM), School of Civil Engineering, College of Engineering, Universiti Teknologi MARA (UiTM).



Welcome Address by Dr. Sakiah Abdul Kudus, Associate Professor, College of Engineering, UiTM

During the seminar, the participants were also exposed to NDT equipments viz., ultrasonic pulse velocity test, rebound hammer, and equipment to determine the elements of concrete instantly at site conditions.

III. Salient photographs taken during the seminar



Participants with Resource Persons



Dr. Mohd Fadzil Arshad, Professor delivering lecture on Durable Concrete Structures : Significance and influencing parameters



Dr. M.S. Haji Sheik Mohammed delivering lecture on Corrosion of Steel in Concrete: Mechanism, causes consequences and control measures



Dr. Roopa V delivering delivering lecture on Corrosion control in distressed RC Structures using sacrificial anodes



Dr. Mohd Fadzil Arshad honouring Dr. M. S. Haji Sheikh Mohammed



Dr. Mohd Fadzil Arshad honouring Dr. Roopa V

IV. Details of participants

S.No	Name	Designation	Institution
1	Hasnida Adlin Binti Kamaruddin	Engineering	Engineering Services Division, Ministry of Health Malaysia.
2	Ir. Ts. Wan Azura Binti Wan Mohd Nasir	Engineering	
3	Muhammad Saifuldin Bin Zakaria	Engineering	Engineering Services Division, Ministry of Health Malaysia.
4	Nurul Syafiqah Binti Jani	Engineering	
5	Mohamad Faizullah Bin Roslan	Engineering	
6	Emma Binti Abdul Rauf	Engineering	
7	Harun Bin Sahibol Bahar	Engineering	
8	Noraini Binti Abd Manap	Engineering	
9	Mohd Hanif Bin Mohd Muzar	Engineer	Engineering Services Division, Ministry of Health Malaysia.
10	Ahmad Kusyairi Bin Omar	Engineer	
11	Muhammad Fahmi Hakim Bin Ghazali	Engineer	
12	Ir Khairul Anwar Bin Hatta	Engineer	
13	Amal Husni Bin Mansor	Assistant director	
14	Suffian Slamet	Assistant manager	PBLT SDN BHD, Kuala Lumpur, Malaysia

15	Mohamad Hafiz Bin Mohd Salehim	Geotechnical design engineer	Geoquest Solutions, Kuala Lumpur, Malaysia
16	Muhammad Ameir Asyhraf Bin Yusri	Design engineer	
17	Chankar A/L L. Mohan	Construction manager	
18	Salhafizah Yaacob	Senior science officer	Institute for Infrastructure Engineering and Sustainable Management (IIESM), UiTM
19	Rosnani Md Saini	Senior science officer	
20	Prof. Ts Dr. Hj. Mohd Fadzil Arshad	Senior lecturer	
21	Assoc. Prof. Ir. Ts. Dr. Rohana Hassan	Lecturer	
22	Assoc. Prof. Ir. Ts. Dr. Ekarizan Shaffie	Lecturer	Institute for Infrastructure Engineering and Sustainable Management (IIESM), UiTM
23	Assoc. Prof. Dr. Muhd Norhasri Muhd Sidek	Senior lecturer	
24	Dr. Norshariza Mohamad Bhkari	Lecturer	
25	Mohd Shafee Harun	Senior research officer	
26	Nurliza Jasmi	Senior research officer	Institute for Infrastructure Engineering and Sustainable Management (IIESM), UiTM
27	Mohammad Faiz Jamal Abd Nasir	Assistant engineer	
28	Mohd Alif Abd Jalil	Assistant engineer	
29	Ku Harussani Ku Halim	Executive employee	
30	Wan Abdul Halim Nizan	Senior administrative assistant	



V. OUTCOME

The one day seminar created awareness about

1. The significance of corrosion of steel in RC structures on its durability and service life. (SDG 9: Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation)
2. Savings in construction materials by adopting corrosion prevention technologies. (SDG : 12 Ensure sustainable consumption and production patterns)
3. Reduction in Co₂ emissions due to the adoption of good construction practices, corrosion control technologies and waterproofing. (SDG : 13 Take urgent action to combat climate change and its impacts)

Dr. Roopa V.
Asst. Prof. (Sr. Gr)

Dr. M.S. Haji Sheik Mohammed
Dean, School of Infrastructure