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International Course on Road Safety Audit, Road Construction Safety, Biomechanics and Crashworthiness

Background

An International Course on Road Safety Audit, Road Construction Safety, Biomechanics and Crashworthiness was organised by Transportation Research & Injury Prevention Centre (TRIP Centre), Indian Institute of Technology, Delhi, on 22 November – 10 December 2021. The course was supported by the Ministry of Road Transport and Highway, Govt. of India, Ministry of Housing and Urban Affairs, Govt. of India, National Highway Authority of India, Independent Council for Road Safety International (ICoRSI) and South East Asia Region, World Health Organisation. The details are as follows.

Course Coordinators

Prof. Geetam Tiwari
Prof. K.R. Rao
Prof. K.N. Jha
Prof. Puneet Mahajan

Location

Indian Institute of Technology Delhi, New Delhi, India

Period

22 November – 10 December 2021

Purpose

Traffic crashes and injuries are serious problems both in less and highly industrialized countries. More years of working life are lost due to crash injuries in both groups of nations than that due to cardio vascular diseases and cancer. It is important that more professionals become aware of the importance and possibilities of injury control, and the basic principles regarding the same.

Target group

Traffic and road engineers, behavioral scientists, mechanical and automotive engineers, law enforcers and police officers.

Objectives

This fifteen days Course targeted to bring together professionals working in the area of transportation planning, safety promotion, biomechanics of impact and vehicle

crashworthiness, road construction safety and acquaint them with state-of-the-art information. The course was especially designed for an interdisciplinary audience of traffic and road engineers, behavioural scientists, mechanical and automotive engineers, law enforcers, and police officers. It focussed to give a global perspective to the road safety problem. The course was divided into three modules. Module 1 was compulsory for all participants followed by three parallel sessions on Road Safety Audit, Road Construction Safety and Biomechanics and Crashworthiness.

The course contents were designed in such a manner so that by the end of the Course the participants should be aware of:

- The latest scientific knowledge regarding traffic planning, prevention of traffic accidents and injuries, and current advances in vehicle crashworthiness and restraint systems. crashworthiness and restraint systems
- Policies and methods which have been shown to be successful and those that have not worked in the past.

They should be able to:

- Improve or start their own programmes on traffic planning and road safety, design data collection systems and avoid pitfalls common in data analysis.
- Propose and implement road safety countermeasures.
- Provide inputs for local and national road safety policies.

Course structure

- **Week 1 & 2** : Course held with an option for online participation.
- **Week 3** : Required mandatory “in person” participation.
- Participants in the Road Safety Audit module joined course “in person” to fulfil the requirements to get a “Road Safety Auditors Certificate” as recommended by the IRC/MoRTH (submission of practical audit report and written exam).

Course Participants

A total of 84 participants including faculty attended the course out of which 6 participants represented 4 countries other than India.

Course Faculty

Prof. Geetam Tiwari	IIT Delhi, India
Prof. K.N. Jha	IIT Delhi, India
Prof. K.R. Rao	IIT Delhi, India
Prof. Nezamuddin	IIT Delhi, India
Dr. Rahul Goel	IIT Delhi, India
Prof. S.B. Paul	IIT Delhi, India
Prof. Sudipto Mukherjee	IIT Delhi, India
Prof. Ravi Shankar	IIT Delhi, India
Mr. A.K.(Dunu) Roy	Hazard Centre, India
Prof. Dilip Patel	SVNIT, Surat

Prof. Girish Agarwal	Shiv Nadar University, India
Mr. Jigesh N Bhavsar	ADB, iRAP, India
Dr. Mathew Varghese	St. Stephens Hospital, Delhi, India
Dr. P.D. Nayar	SEAR, WHO, India
Dr. Sadhu S L N Sarma	Safety Expert, India
Prof. Hermann Knoflacher	University of Technology, Vienna, Austria
Prof. Shrikant I Bangdiwala	McMaster University, Canada
Dr. Sylvain Lassarre	IFSTTAR, France
Prof. Amarjit Singh	University of Hawaii, USA
Prof. Kavi Bhalla	Bloomberg School of Public Health, USA

Course Kit

1. Road Safety in India: Status Report 2020
2. World Report on Road Traffic Injury Prevention
3. Road Traffic Injury Prevention, Training Manual
4. Important Specifications From Various Codes For Safer Roads
5. Course presentation

Course Programme

The course was delivered in two modules:

1. Road Safety Audit
2. Road Construction Safety

Module I: COMMON FOR ALL PARTICIPANTS (Online Module)

Day:1 (Monday) 22-11-2021 (10.00 – 13:30)		
10.00 -11.00	Welcome Introduction Course details Introduction of participants Introduction to IRC Safety Audit Certification	Prof. S.G. Deshmukh, Deputy Director(O), IIT Delhi Prof. G. Tiwari, Head, TRIP-Centre Prof. K.R Rao Prof. K.N. Jha, Mr. S.K. Nirmal, Secretary General IRC
11.00-11:30	RTI in SEAR Countries	P.D. Nayar, SEAR, WHO
11.45-13.30	Road Traffic Injury National Trends and Transport safety principles	Geetam Tiwari

Day: 2 (Tuesday) 23-11-2021 (10:00 – 13:30)		
10.00-11.30	Road Traffic Injury as a Public Health Problem	Kavi Bhalla
11.45-13.30	Sustainable Transport paradigm	Hermann Knoflacher
Day:3 (Wednesday) 24-11-2021 (10:00 – 13:30)		
10.00-11.30	International Road Safety Comparison	Kavi Bhalla
11.45-13.30	Traffic Safety Legislations /MVA	Girish Agrawal
Day: 4 (Thursday) 25-11-2021 (10:00 – 13:30)		
10.00-11.30	Accident and Injury Data Recording	Rahul Goel
11.45–13.30	Human Tolerance to Injuries and Road Safety & Safer Vehicle Design Techniques	Sudipto Mukherjee
Day:5 (Friday) 26-11-2021 (14:00 – 17:30)		
14.00-15.30	Enforcement and Road Safety	Rahul Goel
16.00-17.30	Statistical Issues in road safety	Shrikant Bangdiwala
Day:6 (Monday) 29-11-2021 (14:00 – 17:30)		
14.00-15.30	Speed and Safety	K. R. Rao
15.45-17:30	Risk Assessment Models	Sylvain Lassare
Day:7 (Tuesday) 30-11-2021 (14:00 – 17:30)		
14.00-15.00	Urban Road Design	Geetam Tiwari
15.00-16.00	Road Safety in Urban Areas	Herman Knoflacher
16.00-17.30	Evaluation of Safety Measures	Shrikant Bangdiwala
Day:8 (Wednesday) 01-12-2021 (14:00 – 17:30)		
14.00-15.30	Highway Safety Standards (Blackspot Inspection)/	Rahul Goel
15:30-16:00	Safety Film	
16:00-17.30	Variables Influencing Driver Speed	Sylvain Lassare
Day:9 (Thursday) 02-12-2021 (14:00 – 17:30)		
14.00-15.30	Road Accident Costing	Sourabh Paul /DIMTS

15.45-17.30	Prehospital care	Mathew Varghese
Day:10 (Friday) 03-12-2021 (14:00 – 17:30)		
14.00-15.30	Traffic Calming & VRU Safety	Geetam Tiwari
15.30-17.30	ITS and Traffic Safety	Nezamuddin
Day:11 (Monday) 06-12-2021 (10:00 – 14:00)		
10.00-11.30	Highway Acts + Road Side Hazard Management	SSLN Sarma
11.30-13.00	Highway Construction Zone Safety	K.N. Jha
13:00 – 14:00	Hill Road Safety	Girish Agrawal/KN Jha

IN PERSON MODULE

Venue: IRD Conference Room, 7th Floor, Main Building, IIT Delhi.

Day:12 (Tuesday) 07-12-2021		
09:00-10:00	IRAP	Jigesh
10.00-11.00	Road Safety Audit Preparation	All Faculty and Participants
11.00-13.30	Field Audit	
14.00-17.00	Safety Audit Findings and report preparation	
Day:13 (Wednesday) 08-12-2021		
10.00-17.30	Highway Field Audit	
Day: 14 (Thursday) 09-12-2021 For Certificate Course Only		
09.30-11.30	Exam 1	
12.00-13.30	Exam 2	
13.30-14.30	LUNCH	
14.30-17.30	Audit Report Preparation	

Day: 15 (Friday) 10-12-2021 (All participants)	
10.00-12.00	Audit report presentation
12:00 – 12:30	Feedback and discussion
12:30 – 14:00	Valedictory session - Prof. Sanjay Mitra, Member, Supreme Course Committee on Road Safety
14.00-	LUNCH

Road Construction Safety (Module 3B) from Day 11

Day:11 (Monday) 6-12-2021 (Online)		
10.00-11.30	Zero Accident Techniques	Amarjit Singh
11.45 – 13.15	Construction labour related issues	A K (Dunu) Roy
Day:12 (Tuesday) 7-12-2021		
10.00-11.30	Why Injuries Occur in Construction	Amarjit Singh
11:30-13:00	Accidents in Construction industry	K N JHA
Day:13 (Wednesday) 8-12-2021		
10:00-11:30	Safety and Reliability in construction projects	Ravi Shankar
11.30 – 13.00	Risk assessment in construction projects	Dilip Patel
Day:14 (Thursday) 9-12-2021		
10:00-11:30	Tort Law, Liability, and Standard of Care	Amarjit Singh
11:30-13:00	Temporary Structures Safety and Design Issues	K N Jha
Day:15(Friday) 10-12-2021 -		
10:00-11.30	Safety Incentives	Amarjit Singh
11:30-13:00	Failure cases in construction	K.N.Jha
13:00-14:00	Lunch	
14:00-17:30	Safety issues related to formwork in multistoreyed building construction, Presentation and Quiz	K N Jha

Course Evaluation Form

The course was evaluated by participants as per the questions given below:

Please evaluate the CONTENT of the Course

1. How much of the material was new to you?

1	2	3	4	5	6
no new material					all new material

2. How difficult was it to understand the material?

1	2	3	4	5	6
extremely difficult to understand					very easy to understand

3. How useful will the information be to you in your job?

1	2	3	4	5	6
not at all useful					extremely useful

Additional comments about the CONTENT:

In addition to considering the TOPIC and CONTENT, we are interested in your view about HOW THE COURSE WAS CONDUCTED

4. How appropriate was the length of this course?

1	2	3	4	5	6
much too long					much too short

5. How useful were the presentations?

1	2	3	4	5	6
not at all useful					extremely useful

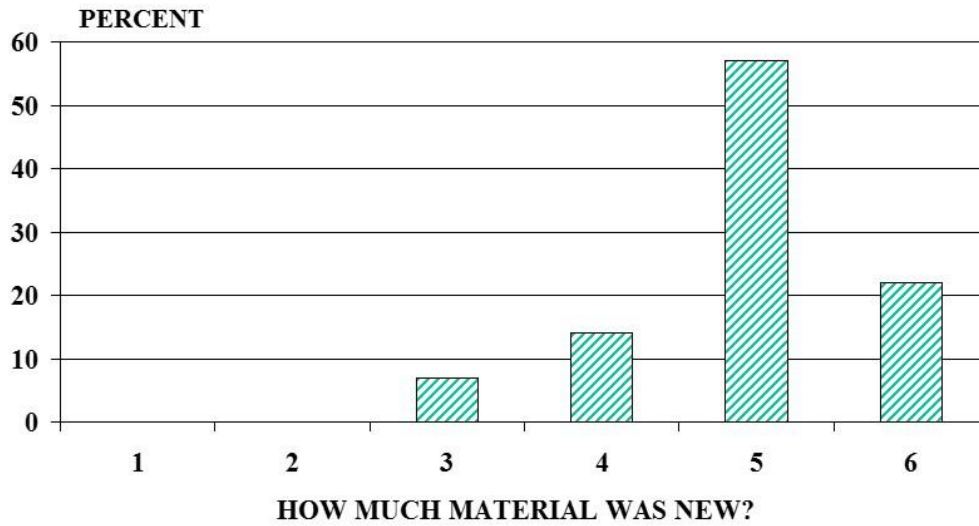
6. How useful were the resource materials?

1	2	3	4	5	6
not at all useful					extremely useful

Please give your comment on how such a course can be conducted better in the future (use reverse of the sheet if necessary)

Evaluation Results

INTERNATIONAL COURSE ON ROAD SAFETY AUDIT AND CONSTRUCTION SAFETY– Dec. 2021

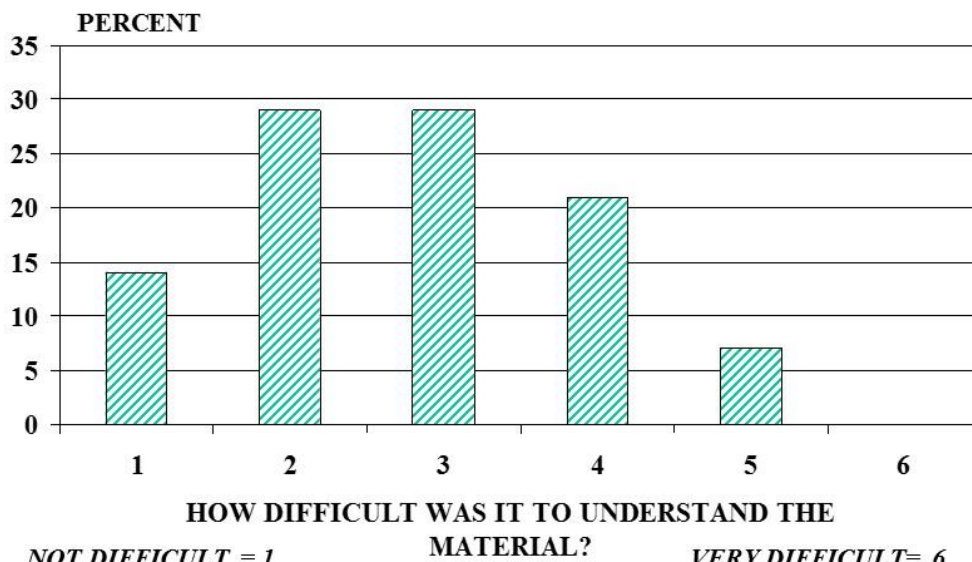


NONE NEW = 1

ALL NEW = 6

Q-1

INTERNATIONAL COURSE ON ROAD SAFETY AUDIT AND CONSTRUCTION SAFETY– Dec. 2021

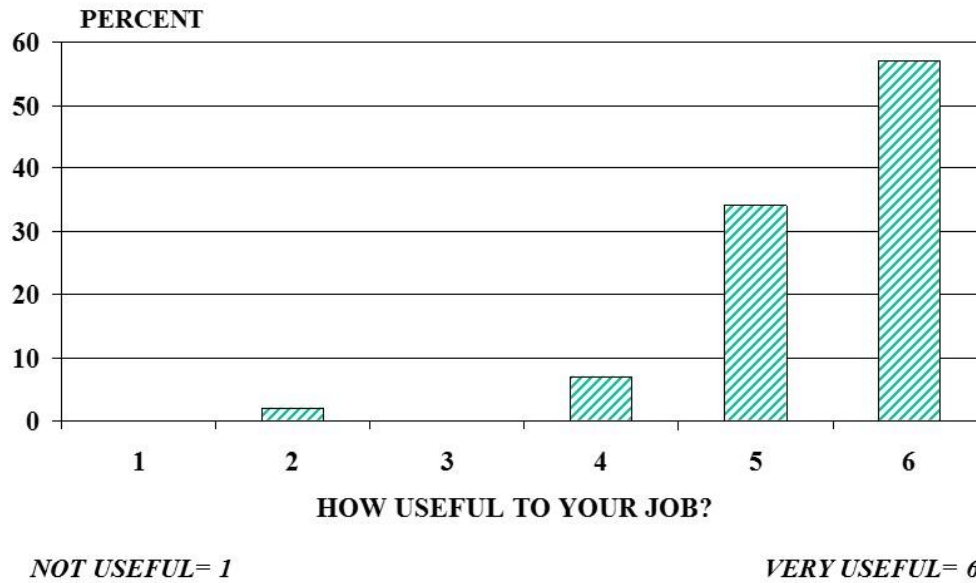


NOT DIFFICULT = 1

VERY DIFFICULT = 6

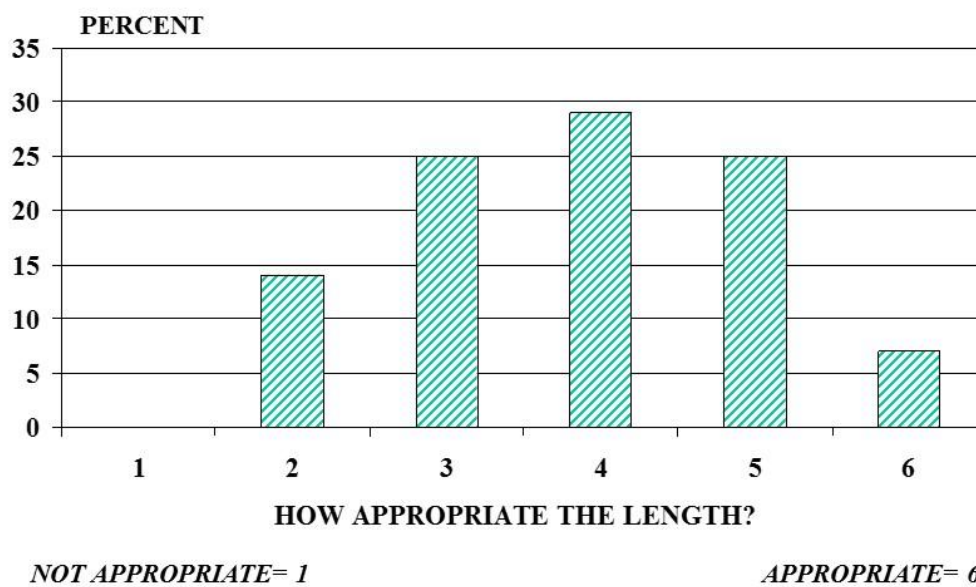
Q-2

**INTERNATIONAL COURSE ON ROAD SAFETY
AUDIT AND CONSTRUCTION SAFETY– Dec. 2021**



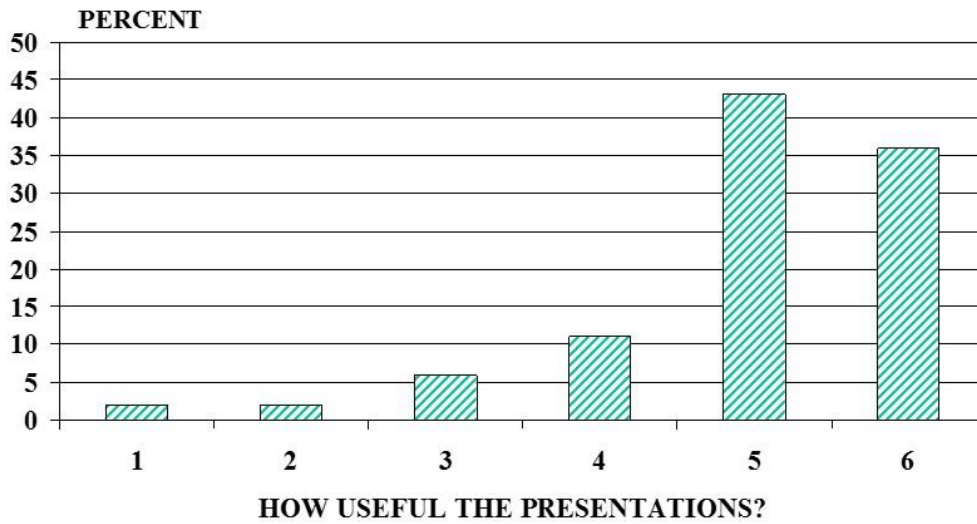
Q-3

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AUDIT AND CONSTRUCTION SAFETY– Dec. 2021**



Q-4

**INTERNATIONAL COURSE ON ROAD SAFETY
AUDIT AND CONSTRUCTION SAFETY– Dec. 2021**

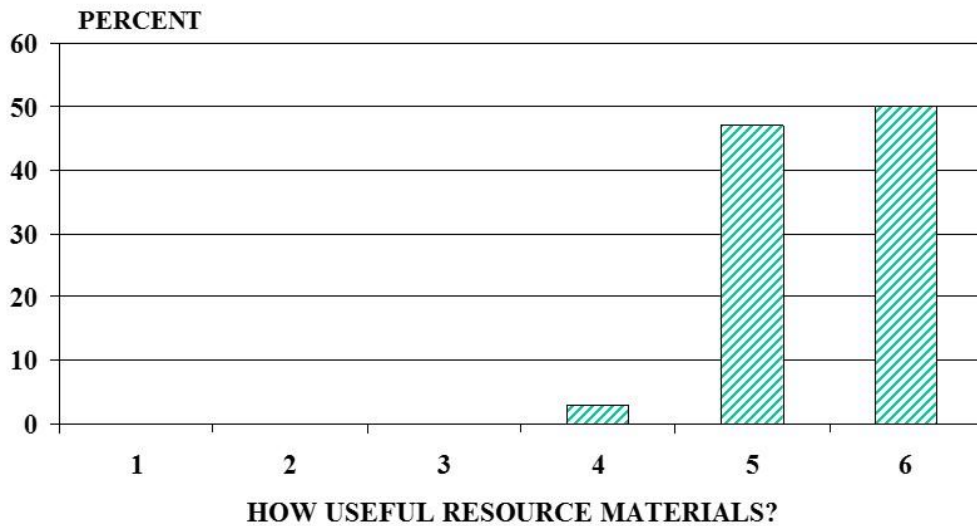


NOT USEFUL= 1

VERY USEFUL= 6

Q-5

**INTERNATIONAL COURSE ON ROAD SAFETY
AUDIT AND CONSTRUCTION SAFETY– Dec. 2021**



NOT USEFUL = 1

VERY USEFUL= 6

Q-6

Course Participants List

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Course Certificate

THIS IS TO CERTIFY THAT

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Has participated in the

INTERNATIONAL COURSE

On

ROAD SAFETY AUDIT, ROAD CONSTRUCTION SAFETY, BIOMECHANICS & CRASHWORTHINESS

22 November - 10 December, 2021

This course was designed to bring together professionals working in the area of transportation planning, safety promotion, biomechanics of impact and vehicle crashworthiness, road construction safety to acquaint them with the state-of-the-art information in the field. The contents of the course were especially focussed to give a global perspective to the road safety problem. The participants have been exposed to

- ☞ The latest scientific knowledge regarding traffic planning, prevention of traffic accidents and injuries, construction safety issues and current advances in vehicle crashworthiness and restraint systems
- ☞ Policies and methods which have been shown to be successful and those that have not worked in the past
- ☞ Strategies for starting local programmes in road safety

Geetam Tiwari

K.R. Rao
Course Coordinators

K.N. Jha

ORGANISED BY

Transportation Research & Injury Prevention Centre
Indian Institute of Technology Delhi, India

SUPPORTED BY

Ministry of Road Transport and Highways, Govt of India;
Ministry of Housing & Urban Affairs, Govt. of India;
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Independent Council for Road Safety International (ICoRSI)
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COURSE PARTICIPANTS & FACULTY

