

Report on

INTERNATIONAL COURSE ON ROAD SAFETY, ROAD SAFETY AUDIT VEHICLE SAFETY TECHNOLOGY AND PRE HOSPITAL CARE

05 - 19 December 2022

Course Coordinators

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2022



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MINISTRY OF HOUSING AND URBAN AFFAIRS, INDIA
INDEPENDENT COUNCIL FOR ROAD SAFETY
INTERNATIONAL (ICoRSI)
NATIONAL HIGHWAY AUTHORITY OF INDIA
WORLD HEALTH ORGANISATION

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International Course on Road Safety, Road Safety Audit, Vehicle Safety Technology and Pre-Hospital Care

Background

An International Course on Road Safety, Road Safety Audit, Vehicle Safety Technology and Pre-Hospital Care was organised by Transportation Research & Injury Prevention Centre (TRIP Centre), Indian Institute of Technology, Delhi, on 05-19 December 2022. 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 SEAR, World Health Organisation. The details are as follows.

Course Coordinators

Prof. Rahul Goel
Prof. K.R. Rao
Prof. Sudipto Mukherjee

Location

Indian Institute of Technology Delhi, New Delhi, India

Period

05 – 19 December 2022

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 two week course will bring together professionals working in the area of road safety transportation planning, safety promotion Vehicle safety technology and acquaint them with

state-of-the-art information. The Course is especially designed for an interdisciplinary audience of traffic and road engineers, behavioural scientists, mechanical and automotive engineers, law enforcers, police officers and focuses to give a global perspective on the road safety problem. The first two days will include a module for all participants, followed by sessions on Road Safety, Road Safety Audit and Vehicle Safety Technology. Participants interested in certification of Road Safety Auditors will receive " Road Safety Auditors Certificate", after fulfilling the requirements as recommended by the Indian Road Congress (IRC) which involves submission of practical audit report and a written exam.

By the end of the Course the participants will gain information of

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

his 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.

Course structure

- The course organised in four modules
- **Module 1** – Common for all participants for first two days on 5 and 6th December which cover general overview of injuries, injury as public health problem; systems approach to injury control; enforcement legislation and education; data analysis and risk factors and human tolerance to injury and Pre-Hospital Trauma Care. After covering common module the participants were grouped in two parallel modules i.e. Vehicle Safety Technology module and Road Safety and Road Safety Audit.
- **Module 2** – Covers Vehicle safety technology for three days from 7th to 10th December which cover vehicle system dynamics, biomechanics and crashworthiness; frequency and nature of injuries; biomechanics of impact; injury severity scaling and vehicle crashworthiness
- **Module 3 and 4** – Covers Road Safety and Road Safety Audit from 7th – 19th December which cover traffic safety; urban transport planning; traffic calming; highway safety audit; public transport safety; and non motorised transport safety.
- Participants in the Road Safety Audit module undergone written exam and submission

of practical audit reports to fulfil the requirements to get a “Road Safety Auditors Certificate” as recommended by the IRC/MoRTH.

Course Participants

A total of 65 participants including faculty attended the course out of which 7 participants represented 5 countries other than India.

Course Faculty

Prof. Geetam Tiwari	IIT Delhi, India
Prof. K.R. Rao	IIT Delhi, India
Prof. Rahul Goel	IIT Delhi, India
Prof. S.B. Paul	IIT Delhi, India
Prof. Sudipto Mukherjee	IIT Delhi, India
Prof. Vijay Kovvali	IIT Delhi, India
Prof. Sai Chand	IIT Delhi, India
Prof. Husain Kanchwala	IIT Delhi, India
Prof. Puneet Mahajan	IIT Delhi, India
Prof. Girish Agarwal	O.P. Jindal University, India
Mr. Jigesh N Bhavsar	ADB, iRAP, India
Dr. Mathew Varghese	St. Stephens Hospital, Delhi, India
Dr. Tashi Togbay	SEAR, WHO, India
Dr. Sadhu S L N Sarma	Safety Expert, India
Prof. Hermann Knoflach	University of Technology, Vienna, Austria
Prof. Shrikant I Bangdiwala	McMaster University, Canada
Dr. Sylvain Lassarre	IFSTTAR, France
Mr. Yves Page	Renault Group, France
Prof. Karin Brolin	Göteborg University, Sweden
Prof. Andres Villaveces	Centre for Disease Control & Prevention, USA
Prof. Kavi Bhalla	University of Chicago, USA

Course Kit

1. Road Safety in India: Status Report 2021
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. Typical Designs for Pick-up Bus Stops on Rural (i.e. Non-urban) Highways
6. iRAD_User_Manual
7. Accelerating Actions for Implementation of Decade of Action for Road Safety
8. PHUKET Framework for Action to Protect Vulnerable Road Users with Focus on Vulnerable Road Users
9. Dealing with Traffic: A guide for Young People
10. When Someone is Hurt: A First Aid Guide for Lay Persons and community Workers
11. Course presentation

Course Programme

Module I: COMMON FOR ALL PARTICIPANTS

Day:1 – 05.12.2022 (Monday)		
09:00 – 09:30 09.30 -10.00	Registration Welcome Introduction Course Details Introduction of participants	
10.00 – 11:00	Road Safety in SEARO Countries	Dr. Tashi Togbay,
11:30 – 13:00	Road Traffic Injury National Trends and Transport safety principles	Geetam Tiwari
14:30 – 16:00	Traffic Safety Legislations / MVA	Girish Agrawal
16:00 – 17:30	Sustainable Transport Paradigm	Hermann Knoflach

Day:2 – 06.12.2022 (Tuesday)		
09:30 – 11:00	International Road Safety Comparison	Kavi Bhalla
11:30 – 13:00	Speed and Safety	K R Rao
14:00 – 15:30	Enforcement and Road Safety	Rahul Goel
16:00 – 17:30	Variables Influencing Driver Speed	Sylvain Lassare

Day:6 - 10.12.2022 (Saturday) COMMON TO ALL MODULES		
09:30 – 11:00	Vehicle Safety and Its Impact on Road Deaths	Kavi Bhalla
11:00 – 11:30	TEA	
11:30 – 13:00	ITS and Traffic Safety	Sai Chand
13:00 – 14:00	LUNCH BREAK	
14:00 – 15:30	Pre-Hospital Care	Mathew Varghese
15.30 – 17:00	Human Tolerance to Injuries and Road Safety & Safer Vehicle Design Techniques	Sudipto Mukherjee
17:00 – 17:30	Video Booby Traps	
17:30	TEA	
	End of Day 6	
19:30	COURSE DINNER	

MODULE 3 and 4 : Road Safety & Road Safety Audit

Day:3 – 07.12.2022(Wednesday)		
09:30 – 11:00	Road Safety Data	Geetam Tiwari
11:30 – 13:00	Road Safety Data	Rahul Goel
14:00 – 15:30	Statistical Issues in Road Safety	Shrikant Bangdiwala
16:00 – 17:00	Risk Assessment Models	Sylvain Lassare
17:00 – 18:00	Pedestrian Safety in Urban Area	Andres Villaveces

Day:4 - 08.12.2022 (Thursday)		
09:30 – 11:00	Road Safety in Urban Areas	Herman Knoflacher
11:30 – 13:00	Urban Junction Design	Sewaram
14: 00 - 15:30	Urban Junction Operation	Vijay Kovvali
16:00 – 17:30	Work Zone safety – case studies	K R Rao

Day: 5 – 09.12.2022 (Friday)		
09:30 – 11:00	Traffic Calming & VRU Safety/Urban Roads	Geetam Tiwari
11:30 – 13:00	Evaluation of Safety Measures	Shrikant Bangdiwala
14:00 - 15:30	Highway Safety Standards (Blackspot Inspection)	Rahul Goel
15:30 – 17:00	Hill Road Safety	Girish Agrawal

Day 7 - 11.12.2022 – (Sunday) SELF STUDY DAY		
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Day:8 – 12.12.2022 (Monday)		
09:30 – 10:30	Signage and Markings (Highways / Urban)	Vijay Kovvali
10:30 – 11:30	Highway Acts & Road Side Hazard Management	SSLN Sarma
12:00 – 13:00	IRAP	Jigesh Bhavsar
14:00 – 15:30	Blackspot Identification	Jacob George
16:00 – 17:30	Design Stage RSA: Case Study Presentation	S.K. Popli

Day: 9 – 13.12.2022 (Tuesday)		
Session : Design Stage RSA: Case Study Presentation		
09:30 – 11:00	Audit Checklists – Urban	G.Tiwari / SSLN Sarma / L. Bisht
11:30 – 13:00	Urban Road Safety Audit	Field Visit
14:00 – 15:30	Urban Road Safety Audit Report Preparation	All Participants
15:30 – 17:30	RSA – Urban Presentation	All participants

Day:10 - 14-12-2022 (Wednesday)		
10.00 – 13:00	Visit to Sonapat Campus for Road Safety Audit	
15:00 – 16:00	Field Audit Preparation	All Faculty
17:30 – 19:00	Night time Road Safety Audit	

Day:11 - 15.12.2022 (Thursday)	
07:00- 9:30	Site visit for Conduct of Existing Stage Road Safety Audit (RSA) / Road Safety Inspection (RSI) and construction Stage RSA
10:00 – 13:00	Audit Report Preparation
13:00 – 14:00	LUNCH BREAK
14:00 – 15:30	Report Preparation (Highway Audit)

Day: 12 –16.12.2022 (Friday)		
09:30 – 11:00	Road Accident Costing	Saurabh Paul
11:30 – 13:00	Final Presentation (Urban Audit)	All Participants
14:00 – 17:00	Final Presentation (Highway Audit)	All Participants
	CONCLUDING DAY FOR MODULE 1 (Road Safety without IRC Certificate)	

Day: 13 - 17-12-2022 For Certificate Course Only (Saturday)		
09:30 – 11:30	Exam 1	
12:00 – 13:00	Exam 2	
14:00 – 15:30	Road Safety Audit in the direction of Supreme Court Committee – outcome report	D B.Srinivas, DIMTS

Day:14 (Sunday) 18.12.2022	SELF STUDY DAY (FREE DAY)
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Day 15 – (Monday) 19.12.2022		
Session Interaction and Closing Ceremony		
09:30 – 11:00	Course Summary / Course Evaluation Feedback	
11:30 – 13:00	Interaction with Participants Certificate distribution	

MODULE 2 : Vehicle Safety Technology

Day: 8 (Monday) 12-12-2022 Venue : Room MS 901, Main Building, IITD		
09:30-10:00	Introduction to course and history	Kavi Bhalla
10:00-11:00	Motor vehicle safety program evaluation	Yves Page/Kavi Bhalla
11:30-13:00	Extremity injuries	S. Mukherjee
14:00-15:30	Head and Neck Injuries	K. Brolin
15:30-17:00	Vehicle dynamics	Husain Kanchwala

Day: 9 (Tuesday) 13-12-2022 Venue : Room MS 901, Main Building, IITD		
9.30-11.00	Advance Driver Assistance Systems (ADAS)	Yves Page/ Husain Kanchwala
11:30 – 13:00	Advance Driver Assistance Systems (ADAS - 2)	Yves Page/ Husain Kanchwala
14:00 – 15:30	Human Body Modelling	K. Brolin
15:30 – 17:00	Restraint Systems: Child Seat	K. Brolin

Day:10 (Wednesday) 14-12-2022 Venue : Room MS 901, Main Building, IITD		
09:30 – 11:00	Helmet Safety	P Mahajan
11:30 – 13:00	Pedestrian and Two-wheelers Safety	S. Mukherjee
14:00 – 15:30	Crash Reconstruction	Yves Page
15:30 – 17:00	Vehicle Testing	NATRAX Indore

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

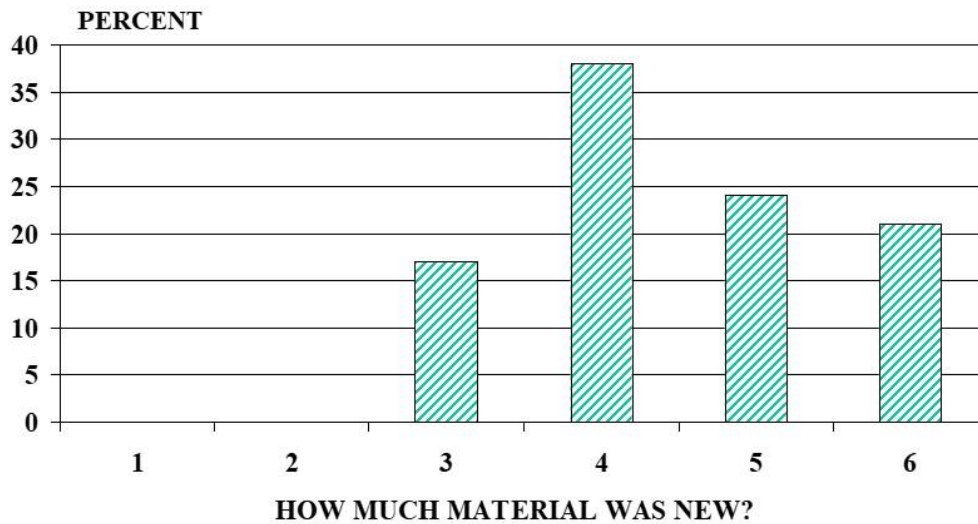
6. How useful were the resource materials?

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 AND ROAD SAFETY AUDIT - Dec. 2022

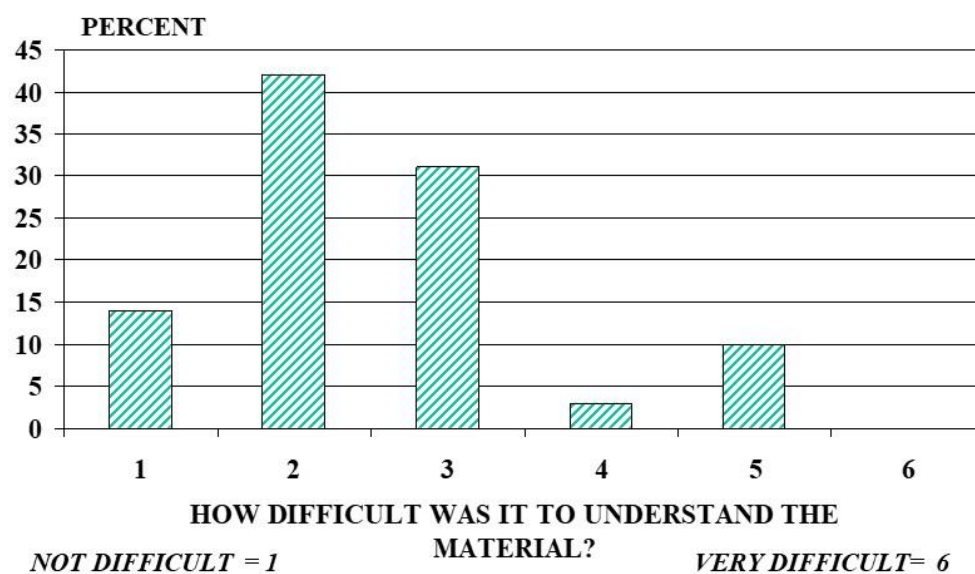


NONE NEW = 1

ALL NEW = 6

Q-1

INTERNATIONAL COURSE ON ROAD SAFETY AND ROAD SAFETY AUDIT - Dec. 2022

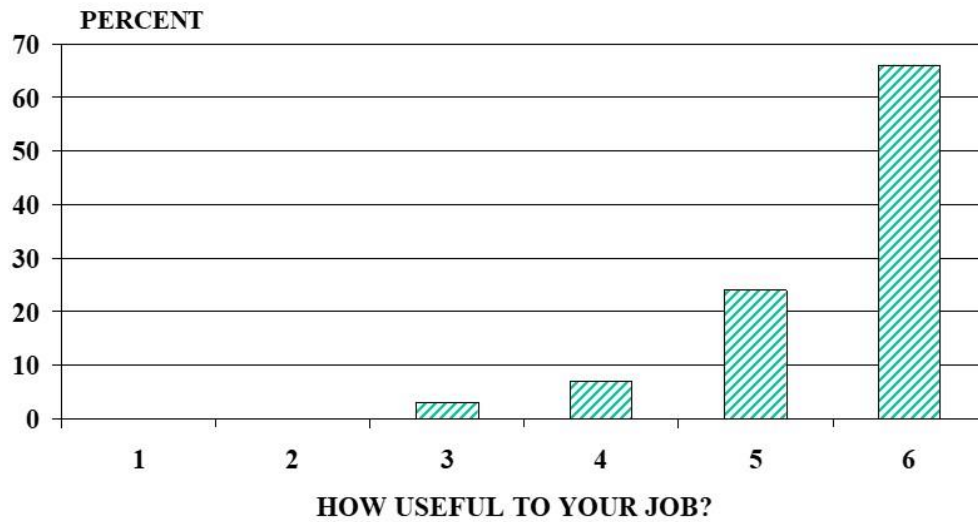


NOT DIFFICULT = 1

VERY DIFFICULT = 6

Q-2

INTERNATIONAL COURSE ON ROAD SAFETY AND ROAD SAFETY AUDIT - Dec. 2022

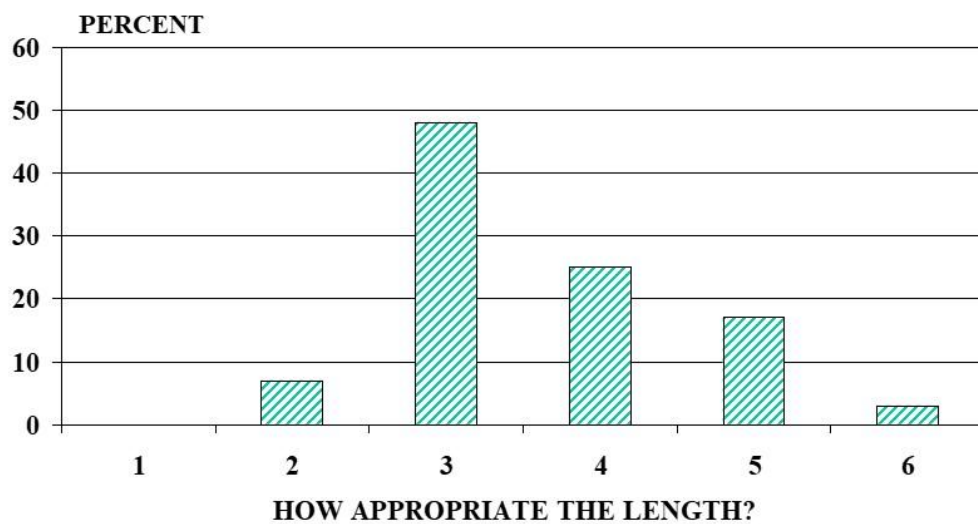


NOT USEFUL= 1

VERY USEFUL= 6

Q-3

INTERNATIONAL COURSE ON ROAD SAFETY AND ROAD SAFETY AUDIT - Dec. 2022

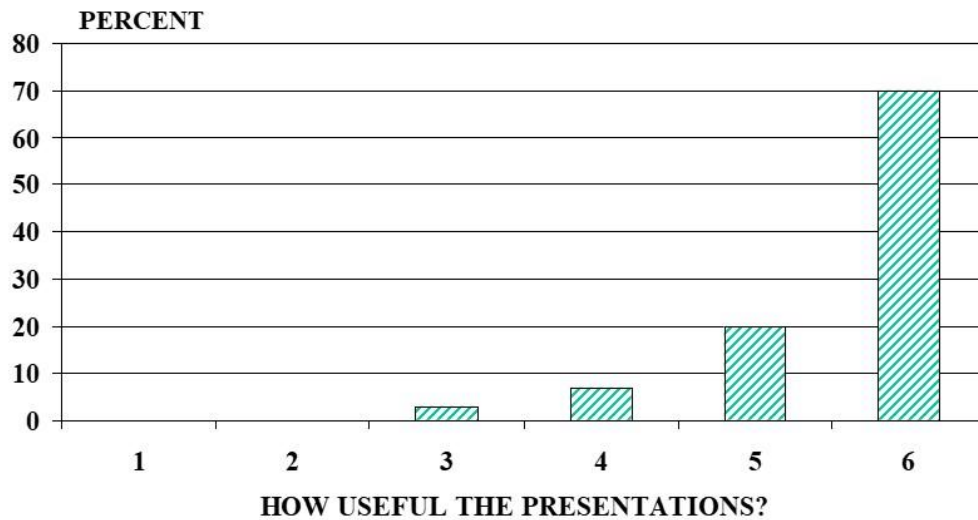


NOT APPROPRIATE= 1

APPROPRIATE= 6

Q-4

INTERNATIONAL COURSE ON ROAD SAFETY AND ROAD SAFETY AUDIT - Dec. 2022

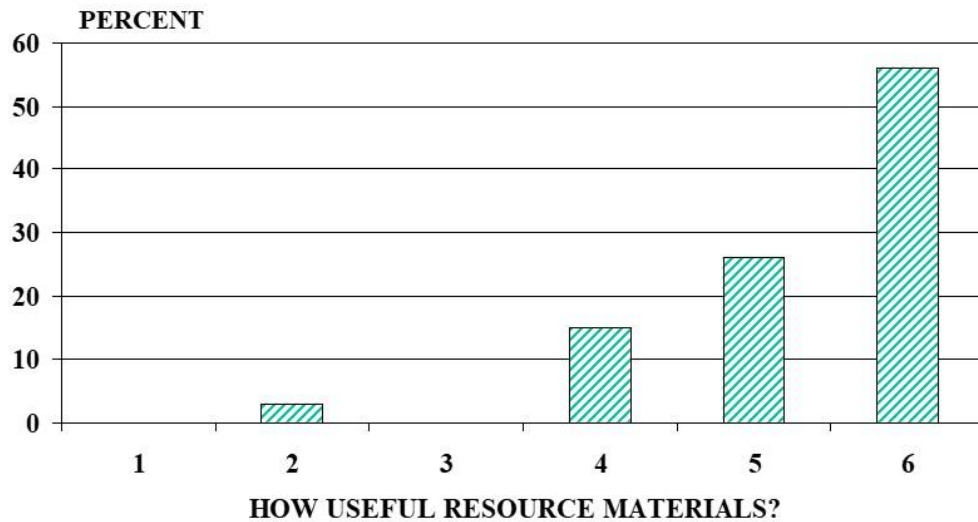


NOT USEFUL = 1

VERY USEFUL = 6

Q-5

INTERNATIONAL COURSE ON ROAD SAFETY AND ROAD SAFETY AUDIT - Dec. 2022



NOT USEFUL = 1

VERY USEFUL = 6

Q-6

Course Participants List

INTERNATIONAL COURSE ON ROAD SAFETY, ROAD SAFETY AUDIT, VEHICLE
SAFETY TECHNOLOGY AND PRE HOSPITAL CARE
05 – 19 December 2022, IIT Delhi, India

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Course Certificate

THIS IS TO CERTIFY THAT

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Has participated in the

INTERNATIONAL COURSE

On

ROAD SAFETY ROAD SAFETY AUDIT, VEHICLE SAFETY TECHNOLOGY AND PRE HOSPITAL CARE

05 – 19 December 2022

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

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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;
National Highway Authority of India
Independent Council for Road Safety International (ICoRSI)
SEAR, World Health Organisation

Group Photograph

ROAD SAFETY, ROAD SAFETY AUDIT,
VEHICLE SAFETY TECHNOLOGY
AND PRE HOSPITAL CARE

05 – 19 December 2022

COURSE PARTICIPANTS & FACULTY

