Government of India Central Water Commission Training Directorate

No. A-33022/35/2020-Trg/

Office Order

Dated: 22 May, 2020

Approval of the Chairman, CWC is hereby conveyed in respect of the following officers for their participation in training through Distance Learning on "Drainage & Watershed Delineation and Jurisdiction Demarcation using GIS" to be organized by NWA, CWC, Pune during 26 May to 5 June 2020 on Google Classroom platform.

SI. No.	Name of the officers (S/Shri/Ms)
1.	Rakesh Kumar, SE (C),B&BBO, CWC, Shillong
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5.	Manjeet Kaur, DD, Hyd(S), CWC, New Delhi
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6.	Piyush Kumar, Dy. Director, FCA-II Dte, CWC, New Delhi
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13.	Vishal Anand, AEE, NSD-II, CWC, Jammu
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14.	Greeshma Krishnan, AD-II, RDC-II, CWC, New Delhi
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	(Mobile: 7503341738, Email: arunkumar10335@gmail.com)
16.	T.V.J. Rao, SDE, BID, CWC, Phuentsholing
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	Parvathy. V, SDE, Investigation Circle, CWC, Gangtok (Mobile : 9487879733, Email: parvathyvelayudhan@gmail.com)	
18.	Kumari Shivangi, JE, RDC-II, CWC, New Delhi	1
	(Mobile: 8700007135, E-mail: shivipragya1@gmail.com, cvpragya67@gmail.com)	l

Further, any other willing officer may participate in the training with the permission of his/her controlling officer, ensuring that office work does not get hampered, and by intimating the same along with their G-mail ID and mobile number to Programme Co-ordinator in advance.

(Venkateswarlu E.)

Dy. Director (Training)

Copy to:

- 1. PPS to Chairman, CWC, New Delhi.
- 2. PPS to Member, WP&P/D&R/RM, CWC, New Delhi.
- 3. CE, NWA, CWC, Pune.
- 4. CE, HSO/FMO/P&DO, New Delhi.
- 5. CE, IBO, Chandigarh/B&BBO, Shillong/TBO, Kolkata.
- 6. Director Coordination, WP&P/D&R/RM, CWC, New Delhi.
- 7. Director, IT &GIS and Programme Coordinator, NWA, CWC, Pune (Mobile: 992079049, Email: nwa.mah@nic.in).
- 8. Officers concerned. They may inform any error in their mobile number and gmail id mentioned above to the Programme Coordinator.
- 9. Steno, Training Dte., CWC, New Delhi to upload this order on CWC website/intranet portal.



Government of India
Ministry of Jal Shakti
Dept. of Water Resources, RD&GR
Central Water Commission
National Water Academy

Annex-I

Content of the Purpose Oriented Trainingon "Drainage & Watershed Delineation and Jurisdiction Demarcation using GIS"

- 1. Installing QGIS and sample data
- 2. Working with Vector data and Raster Data
- 3. Geo-referencing the base map
- 4. Clipping and merging the data
- 5. Map composer
- 6. Downloading and processing sample data (later participant may be asked to download DEM of their jurisdiction)
- 7. Watershed modeling
 - O Create a depression less DEM
 - o Create flow direction
 - o Create flow accumulation
 - Create watershed pour points
 - o Delineate watersheds
 - o Delineate Drainage
 - o calculates area, relief etc. of the watershed
- 8. Download national, state and district boundaries (village, if available) and Download road/rail network
- 9. Generation of Jurisdiction Map by digitization
- 10. Generation of final GIS MAP and exporting into printable format.

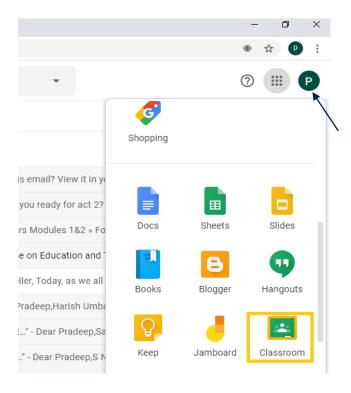


How to join and use Google Classroom

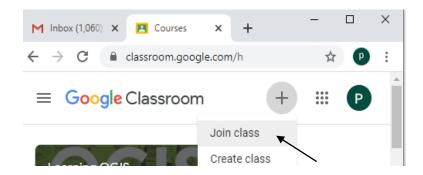
Google Classroom is a free online learning application which helps teachers and students to communicate and can be used to organize and manage assignments, sharing teaching material like PPTs, Videos, to go paperless, for collaboration between students and between teachers, for teaching from a distance.

How to Join Google Classroom

- 1. Sign in with your Google Gmail Account.
- 2. Click Google Apps and open Google Classroom



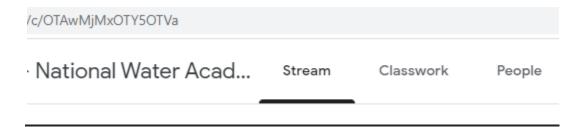
3. Click (+) sign and Click Join the Class.



4. Enter the Class Code shared by Teacher and Join the class

How to use Google Classroom

Google classrooms are divided into three sections i.e , Stream, Classwork and People as shown in below image:



In the **Stream Section**, students/trainees find the assignments, announcements, and questions that teacher/faculty create. This is the section in which students/trainees will spend most of their time after the classes are set up.

In **Classwork Section**, assignments are created for the students/trainees with due date and time. Teacher/faculty can add a file, Voice PPTs from their computer, a file from Google Drive, a YouTube video, or a link to a Website as training material. Trainees have to download the file or see the material and complete the assignment as specified by the teacher. Students can also submit any type of file to your Classroom. Once assignment is completed or files are downloaded, trainees have to mark it as done.

Google Classroom allows one to ask any question within a specific class. As with assignments teacher/faculty can add files to the questions you post, and can assign a due date to it he want. He can post short answer or multiple choice questions for your students to respond to in Classroom.

In addition to creating assignments and questions, Google Classroom allows to create announcements. Students can respond to the announcements. In reality the entire class can have a conversation based on one announcement. Once again teacher/faculty has the option of adding a file, a YouTube video, or a link to an announcement. Announcements are a great way to post reminders about assignment due dates to trainees.

In **People Section**, one can see about the participants who have joined the particular Google class.

To learn more about the Google Classroom please refer the below Link:

https://www.youtube.com/watch?v=pl-tBjAM9g4