

# **Rainfall-Runoff modelling using hydrological models and soft computing techniques**



Thesis Submitted in partial fulfilment  
for the award of the degree

**DOCTOR OF PHILOSOPHY**

by

**Shailesh Kumar**

Department of Civil Engineering  
Indian Institute of Technology  
(Banaras Hindu University)  
VARANASI - 221005

Roll No: 16061017

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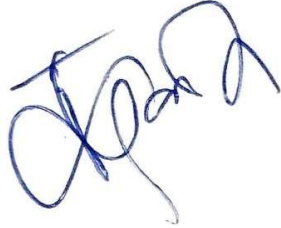


Dedicated To  
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**Dr. Kamlesh Kumar Pandey**  
**(Supervisor)**

Department of Civil Engineering  
Indian Institute of Technology  
(Banaras Hindu University)  
Varanasi, India – 221005



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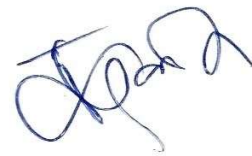
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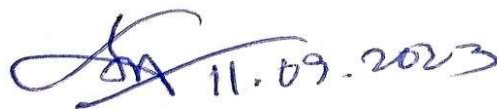
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Date: 11/09/2023

**SHAILESH KUMAR**

**(Roll No.-16061017)**

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## **List of Abbreviations/Notations**

RMSE	Root means square error
RF	Random Forest
MAE	Mean absolute error
SWAT	Soil and Water Assessment Tool
NSE	Nash-Sutcliffe Efficiency
d	Degree of agreement
ADB	Asian Development Bank
ANN	Artificial Neural Networks
LSTM	Long Short-Term Memory
RNN	Recurrent Neural Network
AI	Artificial Intelligence
GA	Genetic Algorithms
NWP	Numerical weather prediction
QPF	quantitative precipitation predictions
GCM	General Circulation Models