



# VIKRANT GROUP OF INSTITUTIONS, INDORE NEWSLETTER

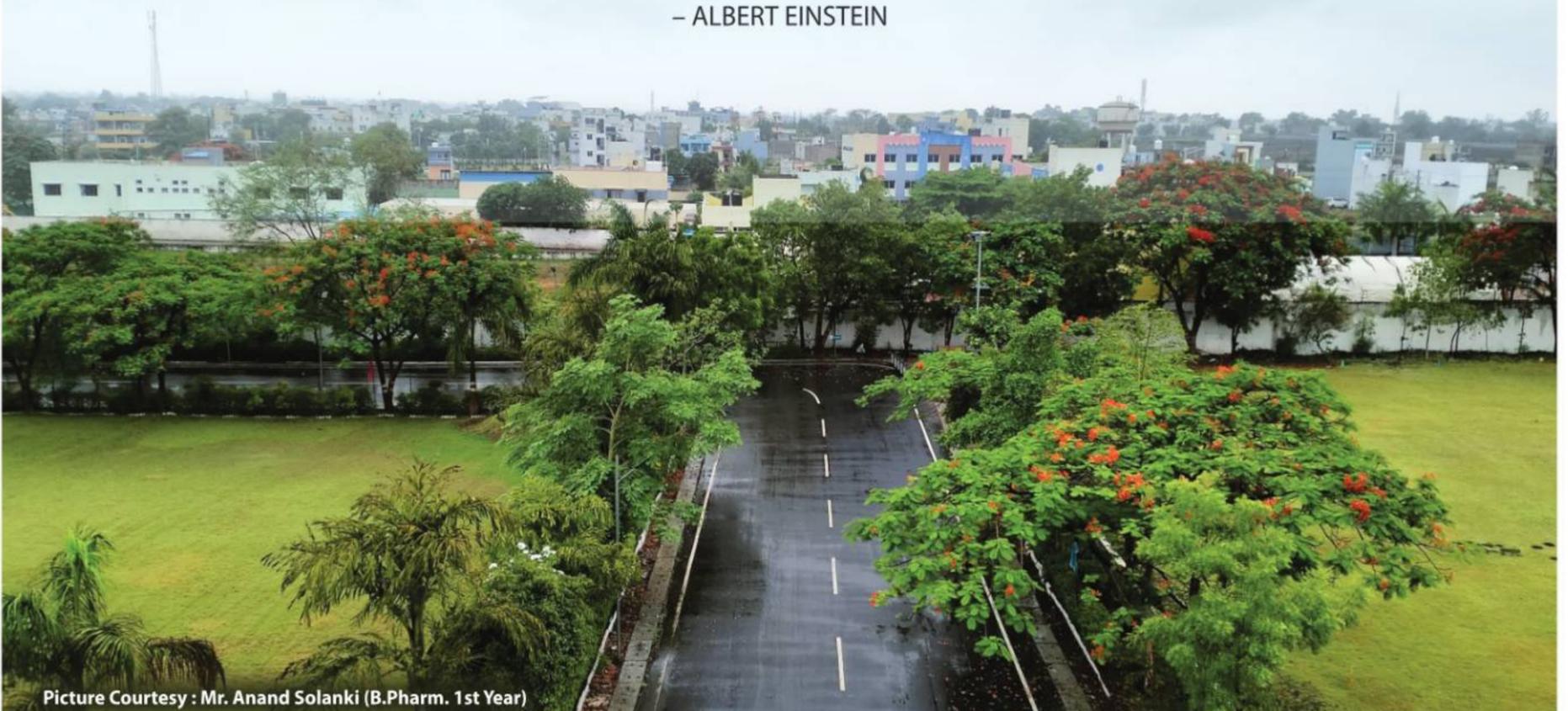
EDITION 5 | JULY 2025 EDITION

## I N D E X

- Working Model Presentation - B.Tech 1st Year.
- Future 5.0 Young India Event.
- Placement Drive-D&h.
- VINS-Poster Competition.
- Lalten Solutions Placement Drive.
- Advisory Board Members Visit - VITM
- TPO Session At VIIAS.
- Seasonal Diseases And Drug Addiction - Session
- Recognition For VIIAS.
- Expert Talk-World Hepatitis Day.
- Resume Building Activity.
- Intellectual Capability Building.

*Education is not the learning of facts,  
but the training of the mind to think?*

– ALBERT EINSTEIN



Picture Courtesy : Mr. Anand Solanki (B.Pharm. 1st Year)

**WORKING MODEL PRESENTATION- A HANDS-ON PRACTICAL LEARNING APPROACH...**

2<sup>nd</sup> JULY 2025

The students of B.Tech 1st Year, batch 2025 presented their Working Models. The students demonstrated their complex concepts, innovative ideas, problem solving ability and technical skills. The students designed and built the model, via the models the audience got the abstract concepts and deeper connections with the subject matter.



**FUTURE 5.0 CHAPTER - LEVEL COMPETITION HELD AT VIKRANT GROUP OF INSTITUTIONS, INDORE.**

2<sup>nd</sup> JULY 2025

Vikrant Group of Institutions, Indore, in

collaboration with Young Indians (Yi), proudly hosted the Future 5.0 Chapter-Level Competition on Wednesday, 2nd July 2025, at Vivekananda Hall. The event—held from 11:00 AM to 3:00 PM—drew an enthusiastic crowd of over 150 students, faculty, and guests. Now in its fifth edition, this year's competition saw 45 participants from across five disciplines—Engineering, Management, Commerce, Pharmacy, and Nursing—presenting 15 promising ideas under the theme “Climate Action.”



**Key Problem Statements Addressed:**

- Urban Temperature Rise and Miyawaki Forest Plantation
- Water Conservation and Pond Rejuvenation
- Electronic Waste Management and Recycling

Each team brought forward innovative, practical solutions to these environmental challenges, reflecting their critical thinking and commitment to sustainability. The proceedings were coordinated and

moderated by Dr. Jitendra Singh Dodiya, Principal of Vikrant Institute of Technology and Management, Indore, whose insightful guidance kept the session engaging and focused. Esteemed Panel of Judges:

- Dr. Keshkali Sharma, Principal, Vikrant Institute of Nursing and Science, Indore
- Dr. A.K. Jain, Principal, Vikrant Institute of Pharmacy and Science, Indore
- Dr. Maanish Chava, Principal, Vikrant Institute of Integrated and Advanced Studies, Indore

The event commenced with a warm welcome address by the Dr. Sandeep Shukla, Joint Managing Director of Vikrant Group of Institutions, who underscored the importance of environmental stewardship in higher education. With 150+ attendees witnessing the presentations, the Future 5.0 competition not only spotlighted creative student-led projects but also fostered a spirit of interdisciplinary collaboration, climate responsibility, and actionable problem-solving. Vikrant Group of Institutions remains committed to nurturing these initiatives as it empowers its students to lead the charge toward a sustainable and resilient future.

**PLACEMENT DRIVE – D&H Sécheron**

5<sup>th</sup> JULY 2025

We are pleased to inform you that the campus recruitment drive by D&H Sécheron Electrodes Pvt. Ltd. was successfully conducted at the VGI campus. Total 20 Students participated in the open campus placement drive. Students had a valuable learning experience and appreciated the professional approach of the drive. This is a proud moment for all of us, as we appreciate the dedication and efforts of our students—**DEEPAK JAISWAL, SURAJ KUMAR, AJAY BADOLE, SUNIL NARGESH, CHHOTU GHAVARI**, who were successfully placed and will soon start their professional journey..



**POSTER COMPETITION - WORLD POPULATION DAY APPROACH**

11<sup>th</sup> JULY 2025

VINS has organized the poster competition on the occasion of World Population Day with the THEME:- “EMPOWERING YOUNG PEOPLE TO CREATE THE FAMILIES THEY WANT IN A FAIR AND HOPEFUL WORLD”. The Poster's presentation was evaluated by Principal Pharmacy Dr. Ankur Jain. We congratulate all the participants and organizing team, community health Nursing head and faculty members.

**LALTEN SOLUTIONS - PLACEMENT DRIVE.**

16<sup>th</sup> JULY 2025

VGI INDORE, feels proud to inform that the campus recruitment drive by Lalten Solutions Pvt. Ltd. was successfully conducted at Vikrant Institute of Technology & Management, Indore. A total of 14 MBA students from VITM INDORE, SAGE UNIVERSITY INDORE AND SDBC College of Batch 2025, participated. The recruitment process was smoothly conducted under the guidance of: · Mr. Hemant Gupta (Director) · Mr. Aman Panchal (Digital Marketing Coordinator) We sincerely thank the Lalten Solutions Pvt. Ltd. team for giving this opportunity to our students. This is a proud moment for all of us, as our student Mr. Vishal Pamnani, VITM, Indore, was successfully placed .



**ADVISORY BOARD MEMBERS VISIT**

17<sup>th</sup> JULY 2025

The Vikrant Group of Institutions, Indore, adopted a visionary leadership practices committed to academic excellence, student-centered development, and institutional innovation. We are honored to be guided by a distinguished Advisory Board, comprised of experts from both academia and industry: Er. Sunil Kalyankar, Chairperson of Advisory Board, Director, Septemgenix, Retired from CASE, Pithampur, Alumni of SGSITS, Indore Dr. Dharmendra D. Mehta: Member of Advisory Board, Professor, Department of Computer Science, SGSITS, Indore Dr. Praveen Patel, Member of Advisory Board, Professor - FT & SE, IPS Academy, Institute of Engineering and Science, Indore Major objectives of the Advisory Board on which the discussions took place included providing strategic guidance in Academia-industry integration, Student development and placement, Institutional bench marking and growth. Further their role will put emphasis on innovative teaching and learning practices , guiding curriculum and academic development strategy and promoting faculty training and interdisciplinary research through

increased number of effective MOU's, multi disciplinary collaborations and development programs and offering insights into emerging trends and institutional improvement. The advisory body has committed to meet once every 4 months to oversee the development in addition to online consultations, as required.



**TPO SESSION AT VIAS.**

21<sup>st</sup> JULY 2025

Ms. Neha Sharma, the trainer for personality development and interview etiquettes, interacted with the students of BBA 1st year. The interaction lasted for over 45 minutes and preliminarily focused on the development aspects of the 1st year students. The points discussed involved grooming, improvement in spoken English, writing skills and presentations.

**SESSION ON "SEASONAL DISEASES AND DRUG ADDICTION."**

22<sup>nd</sup> JULY 2025

An expert session was taken by Dr. Hansraj Verma medical superintendent of Madhya Bharat civil hospital Mhow, session was really very relevant and season friendly. Many thanks to Dr. Verma sir, our higher management, faculty and wonderful students for making it possible.



**RECOGNITION FOR VIAS**

25<sup>th</sup> JULY 2025



Vikrant Institute of Integrated and Advanced Studies , VGI Indore received a certificate from the Government of India, Ministry of Ayush, for smoothly conducting Yoga session on the occasion of International Yoga Day where total of 70 students and staff participated with great enthusiasm in the campus premise.

**SUG EXPERT TALK – WORLD HEPATITIS DAY**

28<sup>th</sup> JULY 2025

The three most common types of hepatitis, a disease characterized by inflammation of the liver, are those caused by the hepatitis A, B, and C viruses. All viral types are contagious-that is, they can be spread from one person to another-although the methods of transmission vary. An informative session on the Ocassion of World Hepatitis Day, the session was conducted and was very valuable information was shared by Dr. Vimal Kumar Saxena sir, we are highly grateful to Dr. Saxena sir shared that For Hepatitis A, vaccination and proper hygiene are key, Maintaining good hygiene, He also stated PREVENTION IS BETTER THAN CURE AS -there is no vaccine for hepatitis C. Our doctors recommend adopting certain behaviors-such as avoiding shared needles and other risk factors-to prevent infection.



**WORKSHOP ON "RESUME BUILDING"**

28<sup>th</sup> JULY 2025



Under the Training and Development Cell, in coordination with Ms. Neha Sharma, Assistant TPO, a full day workshop on "Resume Building" for the students of B.Tech 4th Year (7th Semester) was scheduled. She stated the importance of a sound resume in the competitive job market if one really needs to move on to the next step of the interview process. A good, well-written resume can showcase how a candidate is a good fit for the job.

**INTELLECTUAL CAPABILITIES BUILDING FACULIN RESEARCH AND PUBLICATION.**

1. Dr. Maanish Chava, Principal, Vikrant Institute of Integrated and Advanced Studies, presented his research work titled "Contemporary Urban property Tax System in India-Issues and Solutions" in international Conference-SAMEEDHA-on Redefining Possibilities : Multidisciplinary Perspectives In Emerging And Changing World - organized by Tirpude Institute of Management Education- Nagpur on 27th June 2025. The research work was presented through online mode in front of the expert panel and was approved on 15th July 2025 for online publication in the peer reviewed international journal.



2. Dr. Sandeep Yadav-The Associate Professor of FTSE department , Under the ISSN :2582-3930 in an international journal of scientific research in engineering and management was awarded the certificate of publication for his research on-Improving Process through BBS-HSE Integration in Chemical Manufacturing. -

3. A research article Co-authored by **Dr. Maanish Chava** Principal , Vikrant Institute of Integrated and Advanced Studies was published in Open Access International Journal of Science and Engineering, on-line edition- volume 8-issue 5. The work is titled as Behavioral Finance and Investment Decisions in High Volatility Markets. The research work is abstracted and indexed in IPIndexing, CiteFactor, Cosmos Impact Factor, Directory of Research Journal Indexing, Scientific Indexing Services and Google Scholar.

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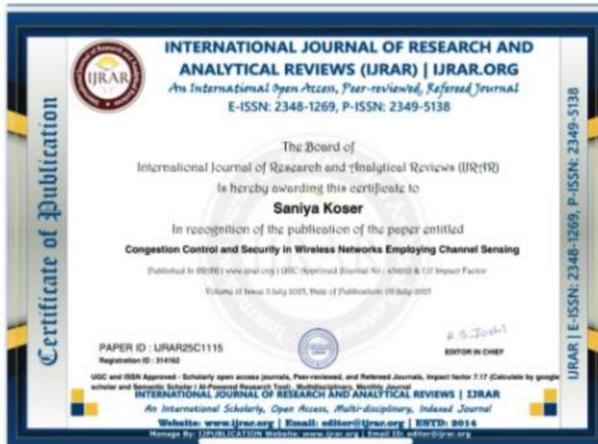


**OPEN ACCESS INTERNATIONAL JOURNAL OF SCIENCE & ENGINEERING**  
**Behavioural Finance and Investment Decisions in High-Volatility Markets**

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**Abstract:** This study examines, from a psychological standpoint, the relationship between market volatility in a stock market and the sentiments of financial investors. It examines the judgments and mental habits that influence the sentiments of financial investors, the processes by which opinion affects market volatility, and the effects on market rules and uncertain practices. The relationship between people's trust and investment market instability is also discussed in the article, as is how regulators use market forecasts of instability as a gauge of market risk. For economic and insurance companies worldwide, predicting and forecasting instability are crucial risk-management tasks. The research examines the causes of instability in the Indian share market and how it relates to the investing decisions of individual investors. The findings indicate that the primary cause of stock market volatility is technical review, which is supported by investor family advice and corporate control. An economy's risk handling relies heavily on an awareness of volatility.  
**Keywords:** Behavioral Finance, Investment Decisions, decision-making.

5. **Ms. Sania Sheikh**-The Asst. Professor of B.Tech CSE department was awarded the certificate for her research publication under the board of International Journal of research and analytical reviews,. Her research is titled as – Congestion Control And Security In Wireless Networks Employing Channel Sensing.



**PICTURE OF THE MONTH**



Picture Courtesy : Name

4. **Dr. Sandeep Yadav**-he Associate Professor of FTSE department, Under the ISSN :2582-3930 in an international journal of scientific research in engineering and management was awarded the certificate of publication for his research on Titled as- Evaluation of Fire Mitigation and Control Approaches in Gas Processing plants.



**INVESTIGATION OF FLOW CHARACTERISTICS OF HYDRAULIC JUMP OVER STEPPED SPILLWAY**

**Ms. Prachi Dharmadhikari - RESEARCH PAPER**

**Investigation of Flow Characteristics of Hydraulic Jump over Stepped Spillway**

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**Abstract**—Three distinct models have been used in presented investigation to analyze flow over a stepped spillway. This study investigates the formation of hydraulic jump in a typical spillway through experimental methods, focusing on air entrainment and energy dissipation to mitigate cavitation damage. Results show that increasing step height significantly reduces the relative height of the hydraulic jump, indicating greater energy dissipation through nappe and skimming flows at low and high Froude numbers, respectively. Jump efficiency decreases with increasing Froude number, while energy dissipation improves with additional steps due to enhanced flow recirculation and air entrainment. Flow regimes are classified into nappe, transition, and skimming flows, each defined by distinct jet behaviors. High turbulence and bottom eddies complicate accurate prediction of jump length and roller characteristics. Additionally, the non-aerated flow zone extends with increased discharge, and the inception point shifts downward with reduced step height. A marked transition from entrapped to entrained air is noted, influencing flow behavior and surface interaction. The findings, presented in dimensionless form, provide scalable insights applicable to real-world dam structures.

**Keywords**—Stepped spillway, skimming and nappe flow, efficiency of jump, roller length, step configuration.

**I. INTRODUCTION**

Estimation of energy loss using stepped spillways for the jet-flow regime is one of the practical applications in dissipating energy downstream when the Froude number 'F<sub>1</sub>' of the incoming discharge is more than 1 and it is of considerable importance in many practical problems to control high energy turbulent flow at downstream of spillways, weir, etc. It is considered to be advantageous to use stepped spillway where a series of drops are provided from the crest up to the toe. Stepped spillway is expected to generate correspondingly more energy losses on the spillway structure under wide range of operating conditions. Excessive drop by the steps helps in the entrainment of air lead to nappe or skimming flow, and it becomes significant for high dam. In nappe flows energy dissipation takes place

by jet breaking in air, water from each step hits the below step as a falling jet with/without the formation of a partial hydraulic jump. Rajaratnam [18] suggested that nappe flow occurs for higher discharges but with very flat slope or when Y<sub>c</sub>/S<sub>0</sub> < 0.8.

Skimming flow occurs at medium to high discharges when water flows down the step. Water skimming over the steps and is cushioned by the recirculating fluid trapped between the lower nappe and steps surface. As per Sorensen [24] review, the energy dissipation in spillways depends on: discharge; spillway slope; steps geometry and number of steps. Investigation under different stepped spillway conditions shows that the energy dissipation of flow through reflectors are more than the plain one, it is increased by increasing the thickness of steps or due to reverse slope. Geometry effects of stepped spillways were also studied using physical models to evaluate the impact of additional end sills that have a quarter circle shapes at step edges. Models were also tested for combination of two different ratios by Christodoulou [9] of width to height of steps to improve the effectiveness of energy dissipation.

Literature shows that when discharge increases, there is decrease in dissipation of energy and when the number of steps increases (i.e. height decreases) energy dissipation decreases. Due to number of complexities involved along with geometrical parameters in the phenomenon like air entrainment, roughness, etc., its analysis is cumbersome. It is also because of existence of non-linear correlation as well as due to other factors which are not accurately measurable. Interpolation/extrapolation based design criteria may leads to physically incorrect and incomplete solutions to the problem. However, many researchers Kamanbedast [13] and Saman and Kamanbedast [22] are continuously trying to overcome these limitations through different modeling approach.

**II. THEORY AND DISCUSSION**

Christodoulou [9] experimentally studied the phenomenon for discharge ranging between 0.01 m<sup>3</sup>/s to 0.45 m<sup>3</sup>/s considering spillway slope of 1:0.7. There were eight steps in the model with constant step width of 1.75 cm and step height of 2.5 cm. On the other hand Rajaratnam [18] given importance to ratio Y<sub>c</sub>/S<sub>0</sub> as 0.7, which is close to 0.78 by Sorensen [24], 0.60-0.62 by Holingworth and