

# **Program Schedule:**

## **SATURDAY, 26 AUGUST 2017**

09:00 – 10:00 Registrations  
10:00 – 10:30 Opening Ceremony  
10:30 – 10:45 Group Photo  
10:45 – 11:00 Tea Break  
11:00 – 12:30 Plenary Talks  
12:30 – 13:30 Lunch  
13:30 – 15:00 Parallel Sessions  
15:00 – 15:15 Tea Break  
15:15 – 17:30 Parallel Sessions

## **SUNDAY, 27 AUGUST 2017**

Field Visit to Ngebel Lake & Ponorogo Reog

Managed by:

Office of Tourism,  
Government of Ponorogo City,  
Indonesia

# **Detailed Schedule:**

## **Opening Ceremony:**

SATURDAY, 26 AUGUST 2017

Venue: Building D, Conference Room,  
Universitas Muhammadiyah Ponorogo

10:00 – 10:05 Welcome Address by: **Ir. Aliyadi, M. M.**, M.Kom  
Dean, Faculty of Engineering, Universitas Muhammadiyah Ponorogo

10:05 – 10:10 Inaugural Address by: **Drs. Sulton**, M.Si  
Rector, Universitas Muhammadiyah Ponorogo, Indonesia

10:10 – 10:15 Address by: **Dr. R. Hafeez Basha**, Ph. D  
Chief Technology Officer, Basha Research Corporation (BRCORP)

10:15 – 10:20 Address by: **Dr. Raju Aedla**, Ph. D  
Secretary General, Cafet-Innova Technical Society, India

10:20 – 10:25 Address by the Chief Guest: **Mr. Ipong Muchlisoni**,  
Honourable Mayor of Ponorogo City, Indonesia

10:25 – 10:30 Vote of Thanks by: **Dr. Rizal Arifin**, Ph. D  
Head – LPPM, Universitas Muhammadiyah Ponorogo, Indonesia

10:30 – 10:45 Group Photo

10:45 – 11:00 Tea Break

**Plenary Session**

SATURDAY, 26 AUGUST 2017

Venue: Building D, Conference Room,  
Universitas Muhammadiyah PonorogoSession Chair: **Dr. Rizal Arifin**, Universitas Muhammadiyah Ponorogo, IndonesiaCoordinator: **Ms. Elok Putri Nimasari**, Universitas Muhammadiyah Ponorogo, Indonesia

11:00 – 11:30 "Study on Life Style Change in Rural Community by Renewable Energy Electrification: preliminary result in Sarawak, Malaysia" by **Prof. Hideaki Ohgaki**, Kyoto University, Japan

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11:30 – 12:00 "Optimization of FRP Piles for Soil-Structure Interaction in Integral Abutment Bridges" by **Prof. Amde M. Amde**, Department of Civil and Environmental Engineering, University of Maryland, USA

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12:00 – 12:30 "Spontaneous combustion of low rank coal; Measurement of the critical self-ignition temperature" by **Prof. Kyuro Sasaki**, Department of Earth Resources Engineering, Kyushu University, Fukuoka, Japan

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12:30 – 13:30 LUNCH

**Parallel Sessions:**

SATURDAY, 26 AUGUST 2017

**Technical Session – 1**Venue: Building D, Room 401,  
Universitas Muhammadiyah  
Ponorogo, Indonesia**Technical Session – 2**Venue: Building D, Room 402,  
Universitas Muhammadiyah  
Ponorogo, Indonesia**Technical Session – 3**Venue: Building D, Room 403,  
Universitas Muhammadiyah  
Ponorogo, Indonesia**Technical Session – 4**Venue: Building D, Room 404,  
Universitas Muhammadiyah  
Ponorogo, Indonesia**Technical Session – 5**Venue: Building D, Room 405,  
Universitas Muhammadiyah  
Ponorogo, Indonesia

Technical Session – 1      SATURDAY, 26 AUGUST 2017

Venue: Building D, Room 401,  
Universitas Muhammadiyah Ponorogo

Session Chair:    **Dr. Raju Aedla**, Secretary General, Cafet-Innova Technical Society, India

Coordinator:      **Mr. Muzammil Khusaini**, Universitas Muhammadiyah Ponorogo, Indonesia

13:30 – 14:00    "Recent Progress on Molecular Dynamics Simulations of Hydrocarbon Dissociation on  
Keynote            Metal Surfaces" by **Dr. Rizal Arifin**, Head of Institute for Research and  
Public Service, Universitas Muhammadiyah Ponorogo, Indonesia

14:00 – 14:15    "Tuning of ultrafast optical and electrical properties of graphene oxide through  
thermal annealing and infrared radiation for optoelectronic and photonics devices"  
by **Dr. P. K. Datta**, Indian Institute of Technology (IIT-Kharagpur), India

14:15 – 14:30    "Fabrication of Nanomaterials and their Potential Applications" by **Dr. M. A. Shah**,  
National Institute of Technology Srinagar, Hazratbal, Jammu & Kashmir, India

14:30 – 14:45    "Molecular Dynamics Study of The Melting Point of Cu and  $\delta$ -Fe using Two-phase  
Method: Investigation on the Interatomic Potential Performance for Metal Brazing  
Process" by **Munaji**, Universitas Muhammadiyah Ponorogo, Indonesia

14:45 – 15:00    "Characterization and Phase Transition Identification of Schiff Base LC compounds  
with dispersed citrate capped gold nanoparticles using Image Processing based  
Gradient Method" by **Ms. M. Tejaswi**,  
Department of Physics, The Hindu College, Machilipatnam, Andhra Pradesh, India

15:00 – 15:15    Tea Break

15:15 – 15:45    "Influence of metal nanoparticles on Liquid Crystals-Optical studies"  
Keynote            by **Dr. RKNR Manepalli**,  
Department of Physics, The Hindu College, Machilipatnam, Andhra Pradesh, India

15:45 – 16:00    "A Mathematical Model for Catalytic Benzylolation of m-Cresol with Benzyl Alcohol"  
by **Mr. Md Ashraf Alam**, Department of Applied Chemistry & Chemical  
Engineering, Noakhali Science and Technology University, Noakhali, Bangladesh

16:00 – 16:15    "Treatment of Styrene from Aqueous Solution by Coagulation/Flocculation Methods"  
by **Mr. Arvind Kumar**, Department of Chemical Engineering,  
Indian Institute of Technology (IIT-Roorkee), Uttarakhand, India

16:15 – 16:30    "Treatment of Phthalic Acid from Aqueous Medium by Electrocoagulation using  
Aluminum Electrodes: Optimization by Response Surface Methodology"  
by **Mr. Vishal Kumar Sandhwar**, Department of Chemical Engineering,  
Indian Institute of Technology (IIT-Roorkee), Uttarakhand, India

16:30 – 16:45    "Behavioral, Physical and Biochemical Responses Induced by Diclofenac Exposure  
from Cyprinus carpio" by **Ms. Rekha Rao**, Department of Civil Engineering,  
National Institute of Technology Karnataka, Surathkal, Karnataka, India

16:45 – 17:00    "Assay and optimization of plant growth promoting phosphate solubilising ability of  
diazotrophic bacteria from rhizosphere of Eragrostis cynosuroides"  
by **Mrs. Chander Prabha**, Department of Botany, Patna Science College,  
Patna University, Patna, Bihar, India

17:00 – 17:15    "Production optimization of thermostable  $\alpha$ - amylase by Bacillus subtilis BK1 isolated  
from Rajgir hot spring, Bihar, India"  
by **Mrs. Abha Singh**, Department of Botany, Patna Science College,  
Patna University, Patna, Bihar, India

Session Chair: **Prof. Kyuro Sasaki**, Dept. of Earth Resources Engg., Kyushu University, Japan

Coordinator: **Ms. Farida Anim**, Universitas Muhammadiyah Ponorogo, Indonesia

- 13:30 – 14:00  
Keynote "Towards utilization of energy efficient ground source heat pump in tropical country" by **Dr. Arif Widiatmojo**, Fukushima Renewable Energy Research Center National Institute of Advanced Industrial Science and Technology (AIST), Japan
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- 14:00 – 14:15 "Site selection criteria for Geological CO<sub>2</sub> Sequestration: A Case Study from CO<sub>2</sub>-enhanced CBM recovery (CO<sub>2</sub>-ECBM) in Indonesia" by **Mr. Ferian Anggara**, Dept. of Geological Engineering, Universitas Gadjah Mada, Yogyakarta, Indonesia
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- 14:15 – 14:30 "Development of the Continuous Monitoring System for Measuring the Soil Surface CO<sub>2</sub> Flux" by **Ms. Salmawati**, Department of Earth Resources Engineering, Kyushu University, Fukuoka, Japan
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- 14:30 – 14:45 "Basic Research of Enhanced Coalbed Methane Recovery by Injecting Air" by **Mr. Noritaka Shimatani**, Department of Earth Resources Engineering, Kyushu University, Fukuoka, Japan
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- 14:45 – 15:00 "Maceral effects on nitrogen, carbon dioxide and methane sorption by low rank coal, Bukit Assam Coalmine, Tanjung Enim South Sumatera, Indonesia" by **Mr. Afikah Rahim**, Department of Earth Resources Engineering, Kyushu University, Fukuoka, Japan
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- 15:00 – 15:15 Tea Break
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- 15:15 – 15:45  
Keynote "Early warning systems for landslides - a review" by **Dr. Amitanshu Pattanaik**, Senior Scientist, Defence Terrain Research Laboratory (DTRL-DRDO), Ministry of Defence, Government of India
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- 15:45 – 16:00 "Measurement of the IFT between Oil and Water in which CO<sub>2</sub> is dissolved" by **Mr. Jumpei Tamai**, Department of Earth Resources Engineering, Kyushu University, Fukuoka, Japan
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- 16:00 – 16:15 "Landslide Inventory along Highway Corridors using GIS" by **Sandeep Panchal**, Department of Civil Engineering, NIT Hamirpur, Uttar Pradesh, India
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- 16:15 – 16:30 "Land Use and Land Cover Classification for Tourist Landscape Analysis of Hyderabad City, Telangana, India" by **Mrs. Chitla N R Santhoshini**, Department of Planning and Architecture, Kumamoto University, Japan
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- 16:30 – 16:45 "A Geographic Approach to demonstrate water-logging situation within Chittagong City of Bangladesh" by **Mr. Uzzal Hossen**, Department of Urban & Regional Planning, Chittagong University of Engineering and Technology, Bangladesh
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- 16:45 – 17:00 "The Greenhouse Gas (GHG) Emission Problem On An Aggregates Production Stages of the Road Construction In Central Java" by **Mr. Setiyo Daru C.**, Environmental Science, Sebelas Maret University, Surakarta, Indonesia
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Session Chair: **Prof. Amde M. Amde**, Department of Civil Engineering, University of Maryland, USA

Coordinator: **Mr. Aldi Prasetyo**, Universitas Muhammadiyah Ponorogo, Indonesia

13:30 – 14:00  
Keynote "Effect of Soil Stiffness on Seismic Response of Reinforced Concrete Buildings With Shear Walls" by **Dr. Chinmayi H. K.**, Department of Civil Engineering, Nagarjuna College of Engineering and Technology, Bangalore, Karnataka, India

14:00 – 14:15 "An experimental study on load-deflection behavior of model reinforced concrete pole" by **Mr. Gurunaathan K.**, Department of Civil Engineering, Anna University, Chennai, Tamil Nadu, India

14:15 – 14:30 "Effect of Alkali Activators on Compressive Strength of Geopolymer Mortars with GGBS and Metakaolin" by **Mr. B. Sarath Chandra Kumar**, Department of Civil Engineering, K L University, Guntur, Andhra Pradesh, India

14:30 – 14:45 "Comparison of Effect of Wind and Seismic Load on Building Shape" by **Mr. Md. Rakib Hasan**, Department of Civil Engineering, Rajshahi University of Engineering and Technology, Rajshahi, Bangladesh

14:45 – 15:00 "Usage Effect of Plywood Ash Addition In Concrete Mixture" by **Mr. Rosyid Kholilur Rohman**, Department of Civil Engineering, Merdeka University, Madiun, East Java, Indonesia

15:00 – 15:15 Tea Break

15:15 – 15:45  
Keynote "Challenge of Dhaka Megacity and Pro-People Mass Transport System" by **Dr. Md. Akter Mahmud**, Jahangirnagar University, Dhaka, Bangladesh

15:45 – 16:00 "Wind Pressure Distribution on Tall Buildings- An Experimental Study" by **Dr. Chinmayi H. K.**, Department of Civil Engineering, Nagarjuna College of Engineering and Technology, Bangalore, Karnataka, India

16:00 – 16:15 "Static and Dynamic Analysis of Curved Box Girder Bridge Using Finite Element Method" by **Mr. Anurag Sharma**, Department of Civil Engineering, NIT Hamirpur, Uttar Pradesh, India

16:15 – 16:30 "Behaviour and strength characteristics of steel Fiber RC wall panels under flexural and impact loading" by **Mr. Choudhary Sumit Mukund**, Department of Civil Engineering, Malviya National Institute of Technology, Jaipur, Rajasthan, India

16:30 – 16:45 "Effect of steel fibre on shear - resistance of Defective Reinforce Concrete Beam Using with Polymer Cement Mortar" by **Mr. Rahimullah Habibzai**, Department of Civil Engineering, Khost University, Afghanistan

16:45 – 17:00 "Effect of Wind Loading Pattern in Frame Analysis" by **Mr. Md. Samdani Azad**, Department of Civil and Environment, Mahidol University, Thailand

17:00 – 17:15 "Assessment of Biomedical Waste Management in KP Public Hospitals: An Ignored and Emergent Public Health Problem in Pakistan" by **Mr. Muhammad Bilal Israr** Department of Civil Engineering, University of Engg & Tech, Peshawar, Pakistan

17:15 – 17:30 "Treatment of Municipal Wastewater by using Locally available Materials as Coagulants" by **Ms. Anika Bushra**, Department of Civil Engineering, Rajshahi University of Engineering & Technology, Bangladesh

Session Chair: **Dr. R. Hafeez Basha**, Chief Technology Officer, BRCORP

Coordinator: **Mr. Rifqi Rizal**, Universitas Muhammadiyah Ponorogo, Indonesia

- 13:30 – 14:00  
Keynote "Modeling Radon Diffusion Equation with uncertainty using Interval Orthogonal Polynomials in Collocation Method" by **Dr. S. Chakraverty**, Department of Mathematics, National Institute of Technology Rourkela, India
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- 14:00 – 14:15 "Cauchy's (two and three coefficient) model for the refractive indices of 70.1 LC compound at different wavelengths" by **Dr. R.K.N.R. Manepalli**, Department of Physics, The Hindu College, Machilipatnam, Andhra Pradesh, India
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- 14:15 – 14:30 "Ranking the factors influencing Cloud ERP adoption in Indian Multi-national Companies using AHP approach" by **Prof. Lewlyn L. R. Rodrigues**, Department of Humanities & Management, Manipal Institute of Technology, India
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- 14:30 – 14:45 "Development of materials through the scientific approach to improve mathematical creative thinking" by **Luvy Sylviana Zanthi**, Program Studi Pendidikan Matematika STKIP Siliwangi Bandung, Cimahi, Indonesia
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- 14:45 – 15:00 "The Influence of Customer Knowledge Management (CKM) toward Customer Satisfaction in Asepe Komputer Ponorogo" by **Nurwanto**, Department of Informatics Engineering, Universitas AMIKOM Yogyakarta, Yogyakarta, Indonesia
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- 15:00 – 15:15 Tea Break
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- 15:15 – 15:45  
Keynote "First Birth Interval: Some Recent Evidences from Rajasthan" by **Dr. C. B. Gupta**, Department of Mathematics, BITS-Pilani, Rajasthan, India
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- 15:45 – 16:00 "Development of the controllable sprinkle irrigation based on Raspberry Pi" by **Taufik Ahsani**, Faculty of Engineering, Universitas Muhammadiyah Ponorogo, Indonesia
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- 16:00 – 16:15 "Data Management System for Research and Community Service Activities of Lecturers: Case Study at Universitas Muhammadiyah Ponorogo" by **Ida Widaningrum**, Faculty of Engineering, Universitas Muhammadiyah Ponorogo, Ponorogo, Indonesia
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- 16:15 – 16:30 "Software Architecture Model for Sugarcane Life Cycle Management System" by **Mr. Dashratharaj K. Shetty**, Manipal Institute of Technology, India
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- 16:30 – 16:45 "Using Technology Readiness Index to Analyze Readiness of E-learning Implementation among Public and Private Schools" by **Suryanto Nugroho**, Department of Information Systems, STMIK Duta Bangsa, Surakarta, Indonesia
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- 16:45 – 17:00 "A Prototype Information Systems of Elite English School Ponorogo" by **Khoiru Nur Fitri**, Universitas Muhammadiyah Ponorogo, Ponorogo, Indonesia
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- 17:00 – 17:15 "DC-Bus Voltage Regulation and Power Compensation with Bi-directional Inverter in DC-Micro grid Applications" by **Dr. J. Bhagwan Reddy**, Department of Electrical & Electronics Engineering, Nalla Malla Reddy Engineering College, Hyderabad, India
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- 17:15 – 17:30 "A Conceptual Framework on Energy and Environmentally Efficient Power Generating Scheme" by **Mr. Nallapaneni Manoj Kumar**, Department of Electrical Engineering, University of Malaysia Pahang, Malaysia

Session Chair:	<b>Prof. Hideaki Ohgaki</b> , Institute of Advanced Energy, Kyoto University, Japan
Coordinator:	<b>Mr. Ismail Sunni</b> , Universitas Muhammadiyah Ponorogo, Indonesia
13:30 – 14:00 Keynote	“Solar PV and Biogas hybrid energy system for rural electrification” by <b>Dr. J. Bhagwan Reddy</b> , Department of Electrical and Electronics Engineering, Nalla Malla Reddy Engineering College, Hyderabad, Telangana, India
14:00 – 14:15	“Seamless Operation of Photovoltaic Generation System in Connected to Grid/Remote Operation” by <b>Dr. Sanjeev K. Nayak</b> , Department of Electrical and Electronics Engineering, M. S. Ramaiah University of Applied Sciences, India
14:15 – 14:30	“Simulation Tools for Techno-Economic-Life Cycle Modelling and Analysis of Solar Photovoltaic Systems” by <b>Mr. Nallapaneni Manoj Kumar</b> , Department of Electrical Engineering, University of Malaysia Pahang, Malaysia
14:30 – 14:45	“Solar Based Micro Hybridized Auto-Rickshaw & its Feasibility Analysis for Bangladesh” by <b>Mr. Avijit Mallik</b> , Department of Mechanical Engineering, Rajshahi University of Engineering and Technology, Rajshahi, Bangladesh
14:45 – 15:00	“Utilization of Waste Potency of Old Coconut Agriculture, Young Coconut, Cocoa as Alternative Fuels” by <b>Wahidin Nuriana</b> , Dept. of Mechanical Engineering, University of Merdeka Madiun, Indonesia
15:00 – 15:15	Tea Break
15:15 – 15:45 Keynote	“Evolution of Pop Art Pattern on Modern Ao Dai” by <b>Dr. Pham Ho Mai Anh</b> , Department of Mechanical Engineering, Ho Chi Minh City University of Technology, VNU-HCM, Vietnam
15:45 – 16:00	“Influence of drilling parameters levels on torque during drilling of fiber-reinforced plastics Composites using response surface methodology” by <b>Dr. N. S. Mohan</b> , Department of Mechanical Engineering, Manipal Institute of Technology, India
16:00 – 16:15	“Performance of Double Wave Absorber Solar Water Heater” by <b>Mr. Mustafa</b> , Dept. of Mechanical Engineering, University of Merdeka Madiun, Indonesia
16:15 – 16:30	“The effect of adding one fin line to the reflector of heat radiation to the efficiency of the LPG stoves” by <b>Sudarno</b> , Department of Mechanical Engineering, Universitas Muhammadiyah Ponorogo, Indonesia
16:30 – 16:45	“Impact testing properties of plastic waste Polyethylene Terephalate (PET) with press machine” by <b>Wawan Trisnadi Putra</b> , Department of Mechanical Engineering, Universitas Muhammadiyah Ponorogo, Indonesia
16:45 – 17:00	“Analysis of the influence of speed stirring composite aluminum alloy with stircasting process” by <b>Mr. Moch Helmi Jauhari</b> , Department of Mechanical Engineering, Universitas Nusantara PGRI Kediri, Indonesia
17:00 – 17:15	“Investigation of PET plastic waste processing to oil using pyrolysis process” by <b>Mr. Nuryosuwito</b> , Department of Mechanical Engineering, Universitas Nusantara PGRI Kediri, Indonesia
17:15 – 17:30	“Processing investigationship plastic types of HDPE become an alternative materials using the pyrolysis process” by <b>Mr. Imam Syafi’i</b> , Universitas Sriwijaya, Indonesia

**Closing Ceremony:**

SATURDAY, 26 AUGUST 2017

Venue: Building D, Conference Room,  
Universitas Muhammadiyah Ponorogo

- 17:30 – 17:35 Closing Remarks by:  
**Dr. Rizal Arifin**, Head LPPM, Universitas Muhammadiyah Ponorogo, INDONESIA
- 17:35 – 17:40 Welcoming Participants to 7<sup>th</sup> WCSET 2018 by:  
**Mr. Erra Harsha Vardhan**, Director R&D, Basha Research Corporation (BRCORP)
- 12:10 – 12:25 Certification
- Appreciation to Session CHAIRS
  - Appreciation to Keynote Speakers
  - Best Paper Awards
  - Appreciation to Organizing Committee Members
- 12:25 – 12:30 Vote of Thanks by:  
**Ir. Sudarno**, Universitas Muhammadiyah Ponorogo, INDONESIA

**Field Trip:**

SUNDAY, 27 AUGUST 2017

Visit to Ngebel Lake & Ponorogo Reog

Managed by: Office of Tourism, Government of Ponorogo City, Indonesia

Coordinator: **Fitayani Intan Pradani**, Universitas Muhammadiyah Ponorogo, INDONESIA

- 07:30 Pick-up from Hotel
- 07:30 – 08:30 Travel to Ngebel Lake
- 08:30 – 09:00 Sightseeing at Ngebal Lake
- 09:00 – 10:00 Show of Reog Dance at Ngebal Lake
- 10:00 – 11:00 Sightseeing at Ngebal Lake
- 11:00 – 12:00 Drop at Hotel