

DISRUPTIVE TECHNOLOGIES AND INNOVATIONS TOWARDS SUSTAINABLE MARITIME PRACTICES

25th ANNUAL GENERAL ASSEMBLY 14th-18th OCTOBER, 2025





25th ANNUAL GENERAL ASSEMBLY



INTERNATIONAL ASSOCIATION OF MARITIME UNIVERSITIES (IAMU)

IAMU was founded by seven universities representing the five continents of the world (Representative Universities) in November 1999, with a shared recognition of the significance of maritime education and training in the rapid globalization of the international shipping arena. Since then, IAMU has significantly expanded its membership, and now boasts 81 universities/academies/faculties of the world's maritime education and training institutions, and the Nippon Foundation as its members, total 82 altogether.

IAMU ANNUAL GENERAL ASSEMBLY (AGA)

The Annual General Assembly (AGA) is a forum to allow the exchange of information, policy approvals, and the development and fostering of good relations and collaboration among IAMU member universities.

The Plenary Session, President's Forum, Project Presentations and IAMU Conference (IAMUC) are the main components of AGA. The IAMU Student Program (IAMUS) may be jointly organized by the host university.

PLENARY SESSION

The Plenary Session provides all staff of member universities with an opportunity to review activities of IAMU and to approve IAMU policies, programs and budget as recommended by the International Executive Board (IEB). The Chair of IAMU and the Executive Director, on behalf of IEB, report to the member universities on the decision of the IEB.

PRESIDENT'S FORUM

The President's Forum is a meeting in which the Presidents of IAMU member universities talk about issues especially on policy, direction, and activity of IAMU considering the academic relationship among member universities as well as the economic and technological developments in the international maritime community. The Local Executive Committee (LEC) of an AGA is responsible for organizing the President's Forum during the AGA.

PROJECT PRESENTATIONS

Each project coordinator/ representative of a research project shall make a project presentation in front of academic staff of member universities during the AGA, which is to improve the quality of the project.

IAMU CONFERENCE (IAMUC)

IAMU Conference (IAMUC) provides academic staff of member universities with an opportunity to present the outcomes of their academic/ scientific research to the IAMU community. The LEC together with the International Program Committee (IPC) jointly organizes the IAMU Conference, including the selection of session topics and qualifying papers.

IAMU STUDENT PROGRAM (IAMUS)

LEC of an AGA may organize the IAMU Student Program (IAMUS) during the AGA where students of member universities jointly participate in some events related to student's activities.

WELCOME TO AGA25

The Annual General Assembly (AGA) is the annual meeting of the International Association of Maritime Universities (IAMU). The International Association of Maritime Universities Conference (IAMUC), held annually as part of the AGA, brings together experts and official representatives of IAMU member universities from all over the world to discuss recent progress and future trends in Maritime education, training, research, and other matters within the scope of IAMU. AMET University is honored to host the 25th Annual General Assembly, IAMUC and IAMUS 2025.

This event aims to bring together global maritime leaders, academics, industry experts, and policymakers to exchange knowledge, share best practices, and foster international collaboration. The conference seeks to advance maritime education, training, research, and innovation, while strengthening partnerships that address emerging challenges and shape the future of the global maritime sector.

WELCOME TO AMET

The 25th Annual General Assembly will be a landmark event hosted by AMET University, India's first Maritime University, established in 1993. For over three decades, AMET has contributed to the maritime sector by producing skilled professionals, advancing research, and fostering innovations that serve not only India but the global maritime community.

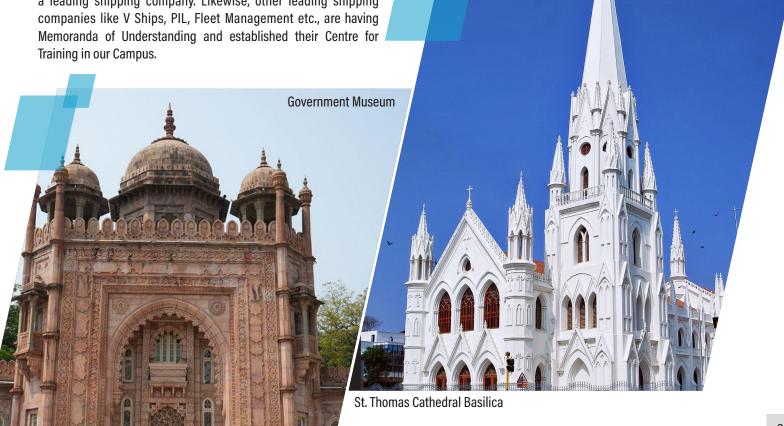
Maersk A.P. Moller, Denmark, one of the renowned and leading shipping companies of the world, have established a Centre of Excellence in collaboration with AMET University which is the first model of Centre of Excellence in the world established by a leading shipping company. Likewise, other leading shipping companies like V Ships, PIL, Fleet Management etc., are having Memoranda of Understanding and established their Centre for Training in our Campus.



25th ANNUAL GENERAL ASSEMBLY 14*-18* OCTOBER, 2025

HISTORICAL BACKGROUND OF THE CITY

Discover India's rich cultural heritage through maritime museums, Centres of Excellence, and industry collaborations. Experience the unique blend of multilingual and multicultural traditions that define India's maritime legacy. Chennai, the Gateway to South India, is a city where tradition and modernity blend seamlessly. From the UNESCO World Heritage Site of Mahabalipuram, known for its ancient rock-cut temples and Dravidian architecture, to the iconic Marina Beach, the world's second-longest beach, the city offers diverse experiences. Heritage landmarks like the Santhome Church and Kapaleeshwarar Temple reflect Chennai's deep spiritual and cultural roots, while the Government Museum showcases India's rich history and art. For cultural immersion, Dakshina Chitra brings alive the traditions and architecture of South India, and for nature lovers, the Arignar Anna Zoological Park offers a glimpse of biodiversity. Adding to its spiritual vibrance, ISKCON Chennai provides a peaceful retreat of devotion and meditation, Together, these attractions make Chennai a destination of history, culture, spirituality, and coastal beauty.









14 th October, 2025 - Tuesday			
Time	Event and Location		
01:00 PM-04:00 PM	Early Registration Registration Desk in the Lobby at Radisson Blu Temple Bay Resort, Mamallapuram, Chennai, India		
07:00 PM-09:00 PM	Welcome Reception at Radisson Blu Temple Bay Resort Welcome Remarks Dr. J Ramachandran, Founder and Chancellor, AMET University, Chief Patron of AGA25 Dinner at Savannah 1 Lawn		
	15 th O	ctober, 2025 - Wednesday	
09:00 AM	Registration		
09:30 AM-11:00 AM	AGA25 Opening Ceremony a	t Ballroom (Peninsula + Goldcoast)	
11:00 AM-11:30 AM	Group Photo	Coffee Break	
11:30 AM-01:00 PM	Presidents Forum at Peninsu	ıla Hall	
01:00 PM-02:30 PM	Lunch Break		
02:30 PM-04:30 PM	Plenary Session (IAMU Members Only) at Goldcoast Hall		
04:30 PM-05:00 PM	Coffee Break		
05:00 PM-06:20 PM	IAMU Project Presentations: IAMU Research Projects at Peninsula Hall		
05:00 PM-05:10 PM	Opening for Project presentation Christian Matthews (Head of AAC)		
05:10 PM-05:20 PM	The Global Maritime Professional utility of Extended Reality Education and Training: Benchmarking of the IAMU Member Universities Johan Bolmsten		
05:20 PM-05:30 PM	MINT_OCEAN: Machine INTelligence in ship weather routing: Application to extreme OCEAN conditions Manel Grifoll		Manel Grifoll
05:30 PM-05:40 PM	Competency Development for Hydrogen powered PEM Fuel Cell Ships M Anandan		M Anandan
05:40 PM-05:50 PM	Evaluation of marine engineering education in respect to the digital Çağlar Karatuğ		Çağlar Karatuğ
05:50 PM-06:00 PM	Sustainable Energy Advancement through Hydrogen in Shipping Aya A. El Bauomy		Aya A. El Bauomy
06:00 PM-06:10 PM	Realistic estimation of Energy Saving Device efficiency gain Andro Bakica		
06:10 PM-06:20 PM	Integration of PV Systems and Power Optimization on Vessels Nemanja Pudar		
06:30 PM	Cultural Program		
Welcome Remarks Dr. Rajesh Ramachandren, President, AMET University, Patron of AGA25			
	Cocktail Dinner at the Radisso	on Blu Resort Lawn	

16th October, 2025- Thursday





TIME	SESSION A - PENINSULA HALL	SESSION B - GOLDCOAST HALL	
09:30 AM - 10:30 AM	Dr. Graham Benton Cal Poly Maritime Academy, USA	Dr. Deepa Rajesh AMET University, India	
09:30 AM - 09:50 AM	Luis Evidente and Emeliza Estimo Life Skills, Technological Awareness, and Attitude of Maritime Students Toward Emerging Technologies: Bases for A Proposed Academic Intervention Plan	Peter Ivar Sandell The future training needs for persons working in Remote Operation Center (ROC)	
09:50 AM - 10:10 AM	Rincy Raju and Dr. Yogamala H L H L Exploring Factors Influencing Workplace Wellbeing and Mental Health Among Indian Seafarers	Sunil Kumar Panda and Sanjeet Kanungo Finding importance of factors by statistical analysis of big data - maritime accidents happened in Indian waters	
10:10 AM - 10:30 AM	Germán De Melo Rodríguez, Reza Ziarati, Heikki Koivisto, Januz Uriasz, Lakhvir Singh, Amirehsan Barzegarsedigh, Amir Lazempour and Aris Chronopoulos A Framework for Continuous Improvement in Safety at Sea	Xiaoling Zhu, Keming Ma, Yushan Huang, Qiyan Wang and Qizhe Wang A Study on the Linguistic Features of IMO Legal Proposals	
10:30 AM - 11:00 AM	COFFEE BREAK		
11:00 AM - 12:00 PM	Dr. T. Sasilatha AMET University, India	Mathew Rooks Kobe University, Japan	
11:00 AM - 11:20 AM	Gholam Reza Emad, Saratkumar Narayanan, Momoko Kitada and Angelica Baylon Women in Maritime: Gender Equality, its Challenges and Opportunities	Junghwan Choi Regulatory Challenges and Future Directions in Cybersecurity for Maritime Autonomous Surface Ship(MASS)	
11:20 AM - 11:40 AM	Andrea Russo, Slavka Kraljević, Sandra Bijelić Tadić and Zlatko Kljajić Self-Censorship Among Seafarers: Key Causes and the Importance of Effective Mentoring	Marin Hero, Peter Vidmar and Marko Perkovic Integrating System Dynamics Into Maritime Education for Green Shipping Corridors and Decarbonization Strategies	
11:40 AM - 12:00 PM	Zorica Đurović and Milena Dževerdanović Pejović Enhancing Standardized VTS Communication Skills through Digital Educational Tools	Paul Szwed, Matthew Rooks and Gregory Sholdt Navigating Beyond Borders: Cultivating Affective Competencies in Future Global Maritime Professionals through Study Away Programs	







TIME	SESSION A - PENINSULA HALL	SESSION B - GOLDCOAST HALL	
12:00 PM - 01:00 PM	Dr. Johan Bolmsten World Maritime University, Sweden	Dr. V. Sangeetha Albin AMET University, India	
12:00 PM - 12:20 PM	Deepa Rajesh and Vettriselvan Rajasekaran Fostering Gender Equality in Maritime Innovation: Economic Growth and Sustainable Development	Du Juan and Zhu Xiaoling A Comparable Corpus-Based Study of Maritime Proposal Convergence Trends for Native Chinese and English Speakers	
12:20 PM - 12:40 PM	Vicente Juan Torio and Myrna Matira Gamification in Maritime Education: Bridging Traditional and Innovative Approaches at MAAP-ASTC	Anatoli Alop, Katre Koit, Jarmo Köster and Olev Tönismaa Course of Navigation Risk Management in the Age of NEW Technologies: Teaching Principles and Practices	
12:40 PM - 01:00 PM	Paul Szwed, Cassia Galvão, Srđan Vujičić, Huanxin Wang, Mahmoud El Baowab and Gamal Galwash What Competencies will be Required of Global Maritime Professionals in the Next Five Years?	Weronika Ceynowa and Adam Przybyłowski Exploring digital solutions in maritime transport - challenges in supply chain management on training vessels	
01:00 PM - 02:30 PM	LUNCH BREAK		
02:30 PM - 03:30 PM	Capt. Gopal Srinivas AMET University, India	Dr. Manel Grifoll Universitat Politècnica de Catalunya, Spain	
02:30 PM - 02:50 PM	Trudi Hogg, Samrat Ghosh and Benjamin Brooks Safe operator dependence on automation in MASS 1 and MASS 2: A systematic review on the interaction between perceived risk and trust calibration	T Sasilatha, Padmapriya J, Karthickmanoj R and Col Dr. Thiruvasagam G Artificial Intelligence based Species Identification in Underwater Ecosystems: Advancing Marine Biodiversity Monitoring	
02:50 PM - 03:10 PM	Antonio Blazina and Lovro Maglic Advancing MET through technology: ROV education and training for seafarers	Gamini Lokuketagoda, Takashi Miwa, Muhammed Iraz and Nageetha Jayathilake Re-creating maritime incidents with engine room simulator	
03:10 PM - 03:30 PM	Bharathi K and Satish Kumar S Analyzing the Eco-Benefits of Innovative Hydrogen Production Methods	Simone Dürr, Sheelagh Conlan, Juan Ahuir Torres, Martin Sharp, Eddie Blanco Davis, Tahsin Opoz, Hiren Kotadia, Bogdan Hnatiuc, Cristina Dragomir, Adrian Sabău, Simona Ghiţă, Mihaela Hnatiuc, Yasin Arslanoğlu, Özkan Uğurlu, Refik Özyurt, Mani Jayaprakashvel, Radhakrishnan Muthezhilan and Vijayaraj Radha Facilitating greener education and cleaner shipping through the development of Novel bespoke microtextured metals to combat biofouling in niche areas on vessels	

COFFEE BREAK
DINNER

AGA2025 – IAMUC 17th October, 2025- Friday





TIME	SESSION A - PENINSULA HALL	SESSION B - GOLDCOAST HALL
09:30 AM - 10:30 AM	Dr. Samrat Ghosh Australian Maritime College, Australia	Capt. Dr. K. Rajesh AMET University, India
09:30 AM - 09:50 AM	Thangalakshmi S and Sivasami K Harnessing ocean energy: advancing marine renewable technologies for sustainable coastal development	Johan Bolmsten, Jeric Bacasdoon, Claudia Barahona- Fuentes, Carolyn Graham, Kirtan Vakil and Tirth Vakil The Utility of Extended Reality in Maritime Education and Training: A Bibliometric Review
09:50 AM - 10:10 AM	Luka Vukić, Rino Bošnjak and Gorana Jelić Mrčelić Managing the risk of fire from electric vehicles on board ferries: an overview of current regulations and proposals	Tatsuro Ishida, Takashi Miwa, Sara Sato, Muhammed Iraz, Nageetha Jayathilake, Gamini Lokuketagoda and Ryotaro Takeda Study on Behavioral Characteristics of Engineers in Engine Room simulator Using Eye-tracking Measurement Devices
10:10 AM - 10:30 AM	Heikki Koivisto Reza Emad and Minna Keinänen-Toivola Sustainable Flow: Sustainable flow of goods and decreased CO2 emissions of transportation	Gea Miščević, Edvard Tijan and Saša Aksentijević Enhancing Cyber Resilience in Critical Maritime Infrastructures
10:30 AM - 11:00 AM	COFFEE	BREAK
11:00 AM - 12:00 PM	Capt. K. Karthik AMET Knowledge Park, AMET-IST, India	Dr. Robyn Pyne Liverpool John Moores University, England
11:00 AM - 11:20 AM	Chavdar Alexandrov, Iglika Ivanova-Slavova and Nikolay Ivanov Eco-activism and its impact on seaborne economic endeavours	Wahidul Sheikh, Reza Emad and T M Rabiul Islam Green Technologies and Evolving Role of Seafarers in the Future of Shipping Industry
11:20 AM - 11:40 AM	Knud Benedict, Michael Baldauf, Mario Gehrke, Maximilian Sternberg, Daniel Rostek and Matthias Kirchhoff Fast Time Simulation and Dynamic Manoeuvring Prediction – towards Integration of Disruptive Technology for Training of Navigators of the Future	T Sasilatha, Padmapriya J and Col Dr Thiruvasagam G Geo-Spatial Visualization of MBES and ROV Data to Explore the Submerged Port City of Poompuhar
11:40 AM - 12:00 PM	Rolando Alimen, Ernie Jay Teves, Agustin Bedia, Allan Roberto, Nerios Cortejo and Victor Ruperto Jaleco Automated Marine Sewage Treatment Plant (MSTP) using Ultraviolet Lights For Domestic Ships in the Philippines	Pritam Pattanaik, Prasheet Mishra, Vik Patra, Saswat Ranjan Barik and Pallab Das Al Powered Approach to Maritime Pirate Attack Detection





17th October, 2025- Friday





TIME		SESSION A - PENINSULA HALL	SESSION B - GOLDCOAST HALL	
12:00 PM - 01:00 PM		Dr. Reza Emad Australian Maritime College, Australia	Dr. M. Jayaprakashvel AMET University, India	
12:00 PM - 12:20 PM	Guladi Tkhilaishvili, Ketevan Tchanidze, Manuchar Loria, Sopiko Dumbadze and Teona Dzneladze E-Learning in Maritime Education, Challenges and Opportunities: Case Study of the Black Sea Countries		Prasheet Mishra, Pritam Pattanaik, Vik Patra, Saswat Ranjan Barik and Pallab Das A Comprehensive Fuel Management System for Ships Using Al and Web Integration	
12:20 PM - 12:40 PM	Emzar Gvarishvili and Johan Bolmsten Enhancing Maritime English Proficiency among Cadets in Georgia: An Action Research Approach to Developing a Tailored E-Learning Course		Capt. Ashok Pandey and Capt. K Karthik Arctic Navigation- Digital Voyage Planning & Management	
12:40 PM - 01:00 PM	T. Sasilatha, Padmapriya J, Col Dr Thiruvasagam G and V. Sangeetha Albin Launching the AMET Marine Exploration Data Portal for Maritime Heritage Studies		Steven Baer, Salman Nazir and Kent Salo Maritime Education in a Rapidly Changing Arctic	
01:00 PM - 02:30 PM		LUNCH BREAK		
	Capt.	V. Chandrasekhar, AMET City College, India	Dr. J. Padmapriya, AMET University, India	
02:30 PM - 02:50 PM	Thi Anh Tho Tran Settlement of Dispute Arising out of Blockchain-Based Smart Contract: A Revisit of Private International Laws in Maritime Convention Network		Kamalesh Kumar P, Dr. C. Vairavan and Ramaraju Sabapathy Multimodal CLIL and Sustainable Maritime Education: Leveraging Disruptive Technologies for Future Seafarers	
02:50 PM - 03:10 PM	Gholam Reza Emad, Mehrangiz Shahbakhsh and Mohsen Khabir Artificial Intelligence and its Transformative Impact in Shaping the Maritime Industry		Tamera Gilmartin Considerations on the Experience of Multilingual MET Students using Virtual Reality	
03:10 PM - 03:30 PM	Katarzyna Skrzeszska and Dariusz Jellonnek The directions of changes in motivators for choosing a career at sea		Darko Glujic, Goran Vizentin, Goran Vukeli and Dario Ogrizovic Mixed reality firefighting simulator	
03:30 PM - 04:30 PM		Closing Ceremony at B	allroom (Peninsula + Goldcoast)	

07:00 PM DINNER

Valluvar Kottam

Dakshinachitra Museum



16th October, 2025- Thursday 9:00 AM to 4:00 PM HALL: NAUTICA





POSTER PRESENTATIONS

	Policy Aspect		
Peter Ivar Sandell	Seafarers legal position when vessels are used for illegal activities against marine infrastructure		
	Social Aspect		
Pawel Kolakowski, Kamil Formela, Filip Bojić, Mislav Maljković and Lea Vojković	Understanding the Concept of Safe Distance in Maritime Navigation: Insights from Simulator-Based Training		
Ilija Knežević, Nikola Marvučić, Nemanja Pudar, Ivana Čavor and Tatijana Dlabač	Implementation of Advanced Learning Methods in Maritime Education Through the UniTrain System for Enhancing the Teaching Practices of Process Measurement Variables		
Klaas De Hert, Deirdre Luyckx and Helen Verstraelen	Future-Proofing Nautical Sciences: Curriculum Reform at the Antwerp Maritime Academy		
Ms.J Christalin Janet and Dr.C. Vairavan	Reading between the Waves: Improving Maritime English Comprehension through Innovative Teaching Strategies		
	Technological Aspect		
Daniel Daneci Patrau, Anastasia Elena Duse and Radu Ioan Hanzu-Pazara	A Potential Framework for the Analysis of Cyber Resilience through the Perspective of Hybrid Threats		
Shamji V R and Faisal Alsaaq	Autonomous and Al-Driven Hydrography: Innovations for Sustainable Maritime Practices		
Senka Šekularac-Ivošević, Dragana Milošević, Draško Kovač and Špiro Ivošević	Exploring a Framework for Maritime Education and Training Tailored to Professionals in Underwater Robotics		
Dr. Lakshmi D, Manimegalai S, Padmashini R.K and Karthickmanoj R	Design of Hybrid Stand-Alone Power Generation System for Marine Applications		
Kamelia Narleva, Yana Gancheva, Boyan Mednikarov and Marina Chesnokova	Social Aspects of Digitalization in the Maritime Industry		
Loren Steve Glumalid	Faculty and Student Feedback on the use of Online Platform and Its Impact on the Academic Performance in Collision Regulation		
Prasanna Kumar Rajakumaran	Maritime Rescue Drones		
Environmental Aspect			
Nguyen Dinh-Thuy-Huong and Nguyen Thanh-Le	Rare procurements related to green energy sale in Vietnam shipping companies: explanations from street level bureaucracy theory		
Economic Aspect			
Amit Mahajan, Emil Mathew and Anisha Banerjee	Predicting Aggregated Cargo Throughput of Major Indian Sea Ports with Bayesian Structural Time Series		



18th October, 2025, Saturday







Time: 09:30 AM

AMET Knowledge Park, AMET Institute of Science and Technology (AMET-IST), Maersk Centre of Excellence

Exploring Maritime Heritage & Education

Time	Activity	Details / Location
08:30 AM	Breakfast	Hotel
09:30 AM	Visit to Mahabalipuram (UNESCO World Heritage Site)	Explore ancient rock-cut temples like Shore Temple, Five Rathas, and Arjuna's Penance. A perfect blend of history, spirituality, and coastal beauty
01:00 PM	Lunch	AMET Knowledge Park, AMET Institute of Science and Technology (AMET-IST) Maersk Centre of Excellence
02:00 PM	AMET Knowledge Park AMET Institute of Science and Technology (AMET-IST) Maersk Centre of Excellence	Tour India's leading maritime university: - Full-mission simulators - AR/VR training labs - Seamanship labs - Engineering & electrical workshops - 150-acre green campus
04:30 PM	Return to Hotel	End of program activities

Radisson Blu Temple Bay Resort, Venue Map







PROGRAM SCHEDULE FOR ACCOMPANYING PERSON



16th - 17th October 2025

16 th October 2025: South Indian Culture & Spiritual Heritage		
Time	Activity Details / Location	
08:30 AM	Breakfast	Hotel
10:30 AM	Visit to Valluvar Kottam	Valluvar Kottam - Honours Tamil poet Thiruvalluvar, showcasing his work in a grand chariot-shaped monument
11:30 AM	Museum	Showcases a rich heritage with ancient artefacts, sculptures, bronze idols, and South Indian cultural history
01:00 PM	Lunch	
03:00 PM	Santhome Basilica	Neo-Gothic church built over the tomb of St. Thomas the Apostle. An architectural and spiritual landmark near Marina Beach
04.00PM	Vivekananda Illam and Marina Beach	Vivekananda Illam showcases Swami Vivekananda's legacy; Marina Beach, India's longest, offers scenic beauty and cultural vibrance
06:00 PM	Return to Hotel	Refresh before Evening Events
07:00 PM	Dinner	Hotel

17th October 2025: Shopping, History & Beach Vibes

Time	Activity	Details / Location
08:30 AM	Breakfast	Hotel
10:00 AM	Visit to Jain Navagraha Temple	A peaceful spiritual site dedicated to Jain Tirthankara and Navagrahas; known for its serene environment and intricate architecture
10.30 AM	Visit to Dakshina Chitra Heritage	Cultural village on ECR, showcasing South Indian art, architecture, crafts, and heritage homes
01.00 PM	Lunch	
02.00 PM	Phoenix Mall	Phoenix Mall is a premier shopping destination offering top brands, dining, and entertainment under one roof Modern mall featuring global brands, diverse dining, multiplex cinema, and vibrant shopping
06:30 PM	Return to Hotel	Refresh before Evening Events
07:30 PM	Dinner	Hotel





Further details

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https://aga25.ametuniv.ac.in/gallery/

Gallery

For photos, please refer https://aga25.ametuniv.ac.in/gallery/

