Advanced STEM Students

Nguyễn Quản Bá Hồng*

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Tóm tắt nôi dung

This text is a part of the series Some Topics in Advanced STEM & Beyond: URL: https://nqbh.github.io/advanced_STEM/. Latest version: • Advanced STEM Students. PDF: URL: https://github.com/NQBH/advanced_STEM_beyond/blob/main/teach/student/NQBH_student.pdf. TEX: URL: https://github.com/NQBH/advanced_STEM_beyond/blob/main/teach/student/NQBH_student.tex. PDF: URL: .pdf. TFX: URL: .tex. Muc luc 3 Miscellaneous UMT Summer Semester 2025/1480: Introduction to Mathematical Analysis 1. Trần Thanh Cường. • Absence: -2. • Bonus: 2. Huỳnh Lâm Vũ Đình. • Early attendance: 0.5. • Bonus: 3. Trương Công Hoan. • Early attendance: 0.5.

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• Bonus:

• Bonus:

4. Nguyễn Huy Hoàng.

• Early attendance: 0.5.

^{*}A scientist- & creative artist wannabe, a mathematics & computer science lecturer of Department of Artificial Intelligence & Data Science (AIDS), School of Technology (SOT), UMT Trường Đại học Quản lý & Công nghệ TP.HCM, Hồ Chí Minh City, Việt Nam. E-mail: nguyenquanbahong@gmail.com & hong.nguyenquanba@umt.edu.vn. Website: https://nqbh.github.io/. GitHub: https://github.com/NQBH.

- 5. Lữ Minh Hoàng. • Bonus: • Bonus:
 - Early attendance: 0.5.
 - 6. Hà Quang Huy.
 - Early attendance: 0.5.
 - 7. NGUYỄN BẢO KHÁNH.
 - Early attendance: 0.5.
 - Bonus:
 - 8. Nguyễn Lê Đăng Khoa.
 - Early attendance: 0.5.
 - Bonus: 0.5.
 - 9. Phan Gia Lạc.
 - Early attendance: 0.5.
 - Bonus:
- 10. Phan Phương Phi.
 - Early attendance: 0.5.
 - Bonus:
- 11. Đặng Minh Phương.
 - Absence: -2.
 - Bonus:
- 12. Nguyễn Hoàng Quân.
 - Early attendance: 0.5.
 - Bonus:
- 13. Đường Nguyễn Minh Sơn.
 - Early attendance: 0.5.
 - Bonus:
- 14. Tạ Minh Thiện.
 - Early attendance: 0.5.
 - Bonus:
- 15. Lê Nguyễn Quốc Toàn.
 - Early attendance: 0.5.
 - Bonus:
- 16. Nguyễn Hoàng Ngọc Trân.
 - Absence: -2.
 - Bonus:
- 17. Nguyễn Anh Tuyển.
 - Early attendance: 0.5.
 - Bonus:
- 18. Nguyễn Như Ý.
 - Early attendance: 0.5.
 - Bonus:

1.1 Potential topics for midterm exam

1. Cho dãy số $\{u_n\}_{n=1}^{\infty}$. Cho vài giá trị cụ thể của ε , tính N_{ε} .

2 UMT Summer Semester 2025/1481: Introduction to Mathematical Analysis

- 1. LÊ MINH TRÂM ANH.
 - Early attendance: 0.75 + 0.75.
 - Bonus:
- 2. Nguyễn Bảo Anh.
 - Early attendance: 0.75.
- 3. Cao Gia Bảo.
 - Absence: -2.
 - Early attendance: 0.75 + 0.75.
- 4. Vũ Văn Đạt.
 - Absence: -2.
 - Early attendance: 0.75.
 - Bonus: 1.
- 5. TRẦN VĂN HẬU.
 - Absence: -2.
 - Early attendance: 0.75.
 - Bonus: 1.
- 6. Nguyễn Ngọc Bích Hiền.
 - Early attendance: 0.75 + 0.75.
 - Bonus: 0.25 + 1 + 1.
- 7. NGUYỄN VĂN HIẾU.
 - Early attendance: 0.75.
- 8. Dương Xuân Hưng.
 - Early attendance: 0.75.
 - Bonus: 1 + 1.
- 9. TRẦN LÊ GIA HUY.
 - Early attendance: 0.75.
- 10. TRẦN QUANG HUY.
 - Absence: -2.
- 11. Đặng Phúc An Khang.
 - Early attendance: 0.75.
 - Late: 15 mins.
 - Bonus: 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5.
- 12. Lương Quốc Khánh.
 - Early attendance: 0.75.
 - Bonus: 1 + 1 + 1 + 1.
- 13. Nguyễn Hà Đăng Khoa.
 - Early attendance: 0.75.
 - Bonus: 1.

- 14. Nguyễn Huy Đăng Khoa.
 - Absence: -1.
- 15. HUỳNH Đỗ ĐĂNG KHOA.
 - Early attendance: 0.75.
- 16. TRẦN TRUNG KIÊN.
 - Early attendance: 0.75.
- 17. Nguyễn Huỳnh Chí Lâm.
 - Early attendance: 0.75.
 - Bonus: 1 + 0.75 + 1 + 1.
- 18. Lê Hoàng Linh.
 - Early attendance: 0.75.
 - Bonus: 1.
- 19. Lâm Bảo Ngọc.
 - Early attendance: 0.75 + 0.75.
 - Bonus: 0.25.
- 20. Nguyễn Lương Nghĩa.
 - (a) Early attendance: 0.75 + 0.75.
 - (b) Bonus: 0.5 + 1.
- 21. TRẦN PHÚC NGUYÊN.
 - Early attendance: 0.75 + 0.75.
- 22. Bùi Văn Nhớ.
 - Early attendance: 0.75
 - Late: 40 mins.
 - Bonus: 1 + 1 + 1 + 1.
- 23. Lê Thanh Tân.
 - Absence: -2.
- 24. Huỳnh Thị Kiều Thu.
 - Early attendance: 0.75 + 0.75.
 - Bonus: 1 + 1 + 1.
- 25. Hoàng Nghĩa Tín.
 - Early attendance: 0.75.
- 26. Hoàng Anh Tuấn.
 - Absence: -2.
 - Early attendance: 0.75.
- 27. Ngô Thanh Tùng.
 - Absence: -2.
- 28. Ngô Hoàng Tùng.
 - Early attendance: 0.75.
 - Bonus: 0.5 + 0.5 + 0.5 + 0.5 + 0.5.
- 29. Trần Mộng Tuyền.
 - Early attendance: 0.75.
- 30. Nguyễn Quang Vỹ.
 - Absence: -1.

3 UMT Summer Semester 2025/1387: Combinatorics & Graph Theory

- 1. VÕ NGỌC TRÂM ANH.
 - Early attendance: 0.25 + 0.5 + 0.25.
 - Bonus: 0.75 + 1.
- 2. Hoàng Anh.
 - Early attendance: 0.25 + 0.25.
 - Bonus: 1.5 + 1.
- 3. VÕ HUỲNH THÁI BẢO.
 - Early attendance: 0.25 + 0.25.
 - Late: 7 mins.
 - Bonus:
- 4. TRẦN MANH ĐứC.
 - Early attendance: 0.25 + 0.5 + 0.25.
 - Bonus: 1.5.
- 5. NGUYỄN TRUNG HẬU.
 - Early attendance: 0.25 + 0.25.
 - Bonus:
- 6. Phạm Phước Minh Hiếu.
 - Early attendance: 0.25 + 0.5 + 0.25.
 - Bonus: 1.
- 7. Hoàng Quang Huy.
 - Early attendance: 0.25 + 0.5 + 0.25.
 - Bonus:
- 8. Phan Nguyễn Duy Kha.
 - Early attendance: 0.25 + 0.25.
 - Bonus: 1.5.
- 9. Đặng Phúc An Khang.
 - Bonus: 0.5.
- 10. Pham Minh Khoa.
 - Early attendance: 0.25 + 0.5 + 0.25.
 - Bonus:
- 11. TRẦN THÀNH LỢI.
 - Early attendance: 0.25 + 0.25.
 - Bonus:
- 12. LÊ ĐứC LONG.
 - Early attendance: 0.25 + 0.25.
 - Bonus: 1.
- 13. Lê Công Hoàng Phúc.
 - Early attendance: 0.25 + 0.5 + 0.25.
 - Bonus:
- 14. Huỳnh Nhật Quang.
 - Absence: -2.

- Late: +10 mins.
- Bonus:
- 15. Cao Sỹ Siêu.
 - Early attendance: 0.25 + 0.5 + 0.25.
 - Bonus: 1 + 1.
- 16. Sơn Tân.
 - Early attendance: 0.25 + 0.5 + 0.25.
 - Bonus: 1.
- 17. NGUYỄN NGỌC THẠCH.
 - Early attendance: 0.25 + 0.25.
 - Bonus:
- 18. Phan Vĩnh Tiến.
 - Late: 8 mins.
 - Early attendance: 0.75.
 - Bonus: 2.

3.1 Potential topics for midterm- & final exams

- Chúng minh bằng phương pháp quy nạp toán học.
- Sử dụng định lý Euler & thuật toán Havel-Hakimi để chạy tay kiểm tra 1 dãy có phải là graphical sequence hay không. Vẽ đồ thị minh họa.
- Shortest path problem on graph.

4 UMT Summer Semester 2025/1488: Introduction to AI

- 1. Hồ Lê Duy.
 - Absence: -2.
 - Early attendance: 0.5.
- 2. Trương Công Hoan.
 - Early attendance: 0.5 + 0.5.
- 3. Lữ Minh Hoàng.
 - Early attendance: 0.5 + 0.5.
- 4. DINH KIM HUNG.
 - Early attendance: 0.5 + 0.5.
 - Bonus: 3.
- 5. Nguyễn Nhật Khôi.
 - Absence: -2.
- 6. Vòng Lỷ Nàm Phúc.
 - Early attendance: 0.5 + 0.5.
- 7. Nguyễn Thi.
 - Absence: -2 2.
- 8. Đặng Nguyễn Duy Trường.
 - Early attendance: 0.5 + 0.5.

- 5 UMT Summer Semester 2025/1493: Information Technology Fundamentals 2
 1. Cao Nguyễn Gia An.
 Early attendence: 1.
 Bonus: 3.5.
 2. Hoàng Trâm Anh.
 Early attendence: 1.
 Bonus: 1.
 3. Bùi Nguyễn Minh Dũng.
 Early attendence: 1.
 - Bonus: 2.5.
 - 4. Nguyễn Ngọc Hân.
 - Early attendence: 1.
 - Bonus: 0.5.
 - 5. Nguyễn Thành Thái Hiệp.
 - Early attendence: 1.
 - Bonus: 3.
 - 6. Vũ Nguyễn Yến Hoa.
 - Early attendence: 1.
 - Bonus: 1.
 - 7. Đỗ Huy Hoàng.
 - Early attendence: 1.
 - 8. Nguyễn Gia Huy.
 - Absence: 1.
 - 9. Pham Lâm Gia Khánh.
 - Late: 15 mins.
 - Bonus: 0.5.
- 10. Pham Xuân Khánh.
 - Absence: 1.
- 11. Bùi Đức Khoa.
 - Early attendence: 1.
 - Bonus: 0.5.
- 12. TRẦN VŨ NGUYÊN KHÔI.
 - Late: 20 mins.
 - Bonus: 3.
- 13. Vũ Thị Ngọc Lan.
 - Early attendence: 1.
 - Bonus: 2.5.
- 14. TRẦN VĂN LÊN.
 - Early attendence: 1.
 - Bonus: 0.5.

- 15. Thái Anh Nhật Thiên Long.
 Absence: 1.
 16. Lê Nguyễn Bảo Ngọc.
- Absence: 1.17. Lê Hồng Ngọc.
 - Absence: 1.
- 18. Nguyễn Hữu Nhân.
 - Early attendence: 1.
 - Bonus: 0.5.
- 19. Lâm Thiện Nhân.
 - Early attendence: 1.
 - Bonus: 2.5.
- 20. Рнам Мінн Nнат.
 - Early attendence: 1.
 - Bonus: 1.5.
- 21. Phạm Quỳnh Như.
 - Early attendence: 1.
- 22. Nguyễn Ngọc Quỳnh Như.
 - Early attendence: 1.
- 23. Đoàn Trương Thiên Phong.
 - Early attendence: 1.
- 24. Hồ Tấn Tài.
 - Early attendence: 1.
 - Bonus: 1.5.
- 25. Hồ Quốc Thành.
 - Early attendence: 1.
- 26. Nguyễn Thị Minh Thư.
 - Absence: 1.
- 27. Đỗ THỊ HẢI TÌNH.
 - Early attendence: 1.
- 28. Võ Đoàn Thái Toàn.
 - Early attendence: 1.
 - Bonus: 0.5.
- 29. TRẦN QUỐC TRUNG.
 - Early attendence: 1.
 - Bonus: 0.5.

6 Miscellaneous