

JAVA TECHNOLOGIES

CONTENTS

1. Introduction
2. Multithreading
3. Network programming
4. Desktop applicaiton programming
5. JDBC
6. Web programming
7. Web service programming

TOOLS

1. Netbeans IDE
2. MySQL
3. Visual Studio 2015 (optional)
4. MS SQL Server 2012 (optional)
5. Android Studio (optional)

MID-TERM EXAM

1. [3]Student management (Swing, JDBC)
2. [3]Student management (Swing, Hibernate)
3. [3]Book management (Swing, JDBC)
4. [3]Book management (Swing, Hibernate)
5. [3]Task management (Swing, JDBC)
6. [3]Task management (Swing, Hibernate)
7. [3]Peer-to-peer chat (Swing) (+1)
8. [4]Server-Client chat (Swing, Hibernate) (+2)
9. [3]Peer-to-peer caro (Swing) (+1)
10. [4]Server-Client caro (Swing, Hibernate) (+2)

MID-TERM EXAM

11. [3]Peer-to-peer Chinese Chess (Swing) (+1)
12. [4]Server-Client Chinese Chess (Swing, Hibernate) (+2)
13. [4]Server-Client Quiz (Swing, Hibernate) (+3)
14. [4]Server-Client File Download-Upload (Swing, Hibernate) (+2)
15. [2]Steganography (Swing) (+2)
16. [4]Offline Caro (Swing) (+2)
17. [4]Offline Chinese Chess (Swing) (+3)
18. [2]Web Crawler (Swing) (+2)

FINAL EXAM

1. [3]Student management (Spring MVC, Hibernate)
2. [3]Book management (Spring MVC, Hibernate)
3. [3]Task management (Spring MVC, Hibernate)
4. [3]Online Shop (Spring MVC, Hibernate)
5. [3]Online Quiz (Spring MVC, Hibernate)
6. [5]ATM management (Spring MVC, Hibernate, Google Map API) (+2)
7. [5]Bus route management (Spring MVC, Hibernate, Google Map API) (+2)

FINAL EXAM

8. [5]Student management (JAX-WS, Hibernate, Swing) (+2)
9. [5]Book management (JAX-WS, Hibernate, Swing) (+2)
10. [5]Task management (JAX-WS, Hibernate, Swing) (+2)
11. [5]Online Shop (JAX-WS, Hibernate, Swing) (+2)

FINAL EXAM

12. [5]Student management (JAX-RS, Hibernate, Swing) (+2)
13. [5]Book management (JAX-RS, Hibernate, Swing) (+2)
14. [5]Task management (JAX-RS, Hibernate, Swing) (+2)
15. [5]Online Shop (JAX-RS, Hibernate, Swing) (+2)

FINAL EXAM

16. [5]Student management (JAX-RS, Hibernate, ASP.NET MVC 5) (+3)
17. [5]Book management (JAX-RS, Hibernate, ASP.NET MVC 5) (+3)
18. [5]Task management (JAX-RS, Hibernate, ASP.NET MVC 5) (+3)
19. [5]Online Shop (JAX-RS, Hibernate, ASP.NET MVC 5) (+3)

FINAL EXAM

- 20. [5]Student management (JAX-RS, Hibernate, Android) (+3)
- 21. [5]Book management (JAX-RS, Hibernate, Android) (+3)
- 22. [5]Task management (JAX-RS, Hibernate, Android) (+3)
- 23. [5]Online Shop (JAX-RS, Hibernate, Android) (+3)

FINAL EXAM

- 23. [5]Student management (WEB API, Entity Framework, Swing) (+3)
- 24. [5]Book management (WEB API, Entity Framework, Swing) (+3)
- 25. [5]Task management (WEB API, Entity Framework, Swing) (+3)
- 26. [5]Online Shop (WEB API, Entity Framework, Swing) (+3)

EVALUATE

1. Check attendance: 10%
2. Mid-term exam: 40%
3. Final exam: 50%