Table 1: EE562 Network Stack Implementation Exam Topic List

| Table 1: EE302 Network 5 | | | | | | | | | |
|--------------------------------------|----------|------------|--------------|----------|------------|----------|----------|--------------|------------|
| Topic | 2019 | R | 2018 | R | 2017 | 2016 | R | 2015 | R |
| Packet Processing | ✓ | √ | | √ | | √ | | | |
| Symmetric Multiprocessing | ✓ | | | | | | | | |
| Spinlock | ✓ | ✓ | ✓ | | | | | | |
| Read-Copy-Update (RCU) | ✓ | √ | | | | | | | |
| 802.11 Modes | ✓ | | √ | √ | | | | | |
| 802.11 Config Task Distribution | | | · | Ů | | | | | |
| Weighted Fair Queueing | | | | | | | | | |
| Linux Device Driver Code | | / | | | | | √ | | // |
| | | √ | V | | ' | | v | V | ' |
| Linux Kernel Real-Time Processing | | | | √ | | | | | |
| Longest Prefix Match | | √ | | | | | | | |
| Forwarding Information Base | ✓ | 🗸 | | √ | | | | | |
| Open Flow | | 🗸 | √ | √ | | | | | |
| Stochastic Fairness Queueing | | ✓ | | | | | | | |
| Completely Fair Scheduler | | 🗸 | \checkmark | ✓ | | | | | |
| Flow Diagram of TCP Packet | | √ | \checkmark | ✓ | | | | ✓ | |
| Socket Buffers | | √ | | √ | ✓ | √ | √ | | \ \ \ \ |
| 802.11 Interfaces - TX | | \ \ \ \ | 1 | √ | | - | | | |
| 802.11 Interfaces - RX | | 🗸 | ./ | √ | | | | | |
| Packet Switched Network | | | | • | | | | | |
| SDN | | | \ \ / | | | | | | |
| SDN Semaphores | | | √ | | , | | | | |
| 1 | | | | | ' | | | | |
| Generic Segmentation Offload | | | √ | V | | | | | |
| Generic Recieve Offload | | | ✓ | √ | | | | | |
| Large Receive Offload | | | ✓ | √ | | | | | |
| Fragmentation Routine | ✓ | | \checkmark | ✓ | | | | \checkmark | √ |
| Resource Reservation Protocol (RSVP) | | | ✓ | | ✓ | ✓ | | ✓ | √ |
| OS Architectures | | | | ✓ | | | | | |
| Code Analysis - Socket Interaction | | | | | | √ | √ | | |
| Cloud Computing | | | | | / | √ | | | |
| SMTP | | | | | | \ | | | |
| Scheduling Algorithms | | | | | | \ | | • | |
| Server-Side Architectures | | | | | ' | | √ | | |
| | | | | | \ \ \ \ \ | ' | ' | | |
| JDBC | | | | | \ \ \ \ \ | | | | |
| Code Analysis - HTML | | | | | ✓ | | | | |
| Porting to ARM | | | | | ✓ | | | | |
| IntServ | | | | | | | | | |
| DiffServ | | | | | ✓ | | | | |
| Document Types | | | | | | ✓ | | | |
| Remote Method Invocation (RMI) | | | | | | √ | | √ | |
| HTTP Enhancements | | | | | | ✓ | | | |
| Multimedia Transport Protocol | | | | | | | √ | √ | |
| Unicast, Multicast, Broadcast | | | | | | | · / | 1 | |
| Process States | | | | | | | \ \ \ | , | |
| HTTP Protocol | | | | | | | \ \ \ | | |
| ICMP | | | | | | | \ \ \ | \ \ \ | |
| | | | | | | | | V | , |
| Sessions and Cookies | | | | | | | ✓ | | √ |
| E-mail Architecture | | | | | | | | V | |
| JSP Code | | | | | | | | √ | √ |
| HTTPS | | | | | | | | √ | |
| Applet Life Cycle | | | | | | | | ✓ | |
| Multi-Threaded TCP Sockets | | | | | | | | ✓ | |
| Code Analysis - RMI | | | | | | | | ✓ | |
| Java Media Framework | | | | | | | | √ | |
| RTP, RTCP, RTSP | | | | | | | | | // |
| PHP | | | | | | | | | '/ |
| Applet Security | | | | | | | | | |
| UDP Client Communication | | | | | | | | | ' |
| FTP | | | | | | | | | 🗸 |
| | | | | | | | | | 🗸 |
| Client-Server Application | | | | | | | | | 🗸 |
| TCP Handshake | | | | | | | | | ✓ |