



# KURIKULUM JURUSAN TKJ SMK MADINATULQURAN



# SEMESTER 1

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1. English Camp
2. Tahfizh Camp
3. Dien al Islam
4. Komputer Dasar
5. Network Fundamental (*Memahami konsep jaringan dasar, perangkat jaringan, media transmisi, MAC address, OSI 7 Layer, TCP/IP, subnetting, membangun jaringan LAN, pengenalan software network simulator (GNS3 & PnetLab), Fiber Optik*)
6. Design Dasar

# SEMESTER 2

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1. Dien al Islam
2. Mata Pelajaran Umum (Matematika , Bahasa Indonesia , Bahasa Inggris).
3. Network Fundamental (*Memahami konsep jaringan dasar, perangkat jaringan, media transmisi, MAC address, OSI 7 Layer, TCP/IP, subnetting, membangun jaringan LAN, pengenalan software network simulator (GNS3 & PnetLab), Fiber Optik* ).
4. MTCNA (MikroTik RouterOS Introduction, ARP, Firewall, QoS, Network Management, Wireless, Bridging, Routing, Tunneling. Seluruh siswa juga diwajibkan untuk membuat modul MTCNA versi mereka sendiri sebagai persyaratan sebelum mengikuti sertikasi MTCNA.
5. Membuat modul MTCNA.
6. Linux Fundamental ( *Mempelajari distribusi dan perkembangan linux, partisi linux, intalasi debian server, penggunaan linux, file system, perintah dasar linux, dan user management. Mengenal sistem operasi windows, DOS (Disk Operating System), windows version, GUI windows, system file windows, kerentanan sistem operasi, operating system vulnerabilities, basic CLI and PowerShell* ).

# SEMESTER 3

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1. Dien al Islam
2. Mata Pelajaran Umum (Matematika , Bahasa Indonesia , Bahasa Inggris)
3. Sertifikasi MTCNA
4. MTCRE ( ECMP Gateway reachability check and route distance, Routing mark and route policy, Recursive next hop and scope/target-scope usage, Point to point. Addressing PTP address configuration, VLAN. VPN tunnels (IPIP, EoIP, PPTP,SSTP, L2TP), Routing OSPF Advanced).
5. CCNAv7 (Siswa akan diikutsertakan di Cisco Academy SMK MQ : Modul ITN, RSWE, ENSA & Belajar mulai dari Pengenalan Basic Configuration Cisco, Basic LAN Switching, VLAN & Trunking, Remote Access, Port Security, Spanning Tree Protocol, Etherchannel, Static Routing, Wireless, Dynamic Routing EIGRP, OSPF, BGP, Access List, NAT, IPv6 Implementation).
6. Linux Server Administration (Siswa akan mempelajari Remote Access, Default Port Service, File Transfer dengan SFTP, Virtual Domain, Primary & Secondary DNS Server, DNS Filtering, Certificate Authority, Web & Database Server, FTP Server, Mail Server, File Sharing, NTP, Monitoring Server, VPN Server, Proxy Server, Linux and Windows Firewall).

# SEMESTER 4

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1. Dien al Islam
2. Mata Pelajaran Umum (Matematika , Bahasa Indonesia , Bahasa Inggris)
3. Routing EIGRP , Routing OSPF , Routing BGP, IPV6 , VPN, MPLS, Switching Technologies
4. DevOps Associate (Docker , gitlab CI/CD)

# SEMESTER 5

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1. Dien al Islam
2. Mata Pelajaran Umum (Matematika , Bahasa Indonesia , Bahasa Inggris)
3. Project Akhir
4. Advancing Career Program

# SEMESTER 6

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1. Prakerin (Praktek Kerja Industri)