

Course: Introduction to Modern Application Development

Course Code: noc17-cs40

Session: 2017-18

Duration: 8 Weeks

Assessment procedures: Weekly Assignment (25%) + proctored certification Exam (75%)

Curriculum of the Course:

Week 1:

- Introduction to the course
- Introduction to a web-app
- Building a web-app
- Networks
- P1: Practical: Running your own web-server
- Protocols

Week 2

- Module P2: Practical: SSH + Network experiments
- Module P3: Practical: Building a webapp with nodejs and using git. Introduction to reverse proxies.
- Module P4: Module P4: Practical: Introduction to server-side javascript and HTML/CSS
- Module P5: Introduction to client-side Javascript
- Module P6: Practical: APIs and mobile apps use web-servers

Week 3&4:

- Module 6: Introduction to databases
- Module 7: Data modelling & constraints
- Module P7: Interacting with a DBMS
- Module P8: Practical: Deeper exploration of a DBMS (column types and more)
- Module P9: Introduction to SQL
- Module 8: Understanding database performance
- Module 9: Transactions & ACID properties
- Module 10: Database security, backup & recovery
- Module 11: Analytics & Views
- Module 12: Scaling a database
- Module P10: Module P10: Connecting your webapp to your database & SQL Injection

Week 5:

- Module 13: Authentication with HTTP

- Module 14: Understanding security, and some best practices for webapps
- Module P11: Introduction to authentication, hashing, curl & sessions

Week 6&7:

- Module 15: Introduction to mobile apps
- Module 16 - Introduction to Mobile Application Development Part 2
- Module 17 - Introduction to Android
- Module P12 - Getting started with Android Application Development
- Module P13 - Building Custom UI using XML and Logs
- Module P14 - Building a Blog App
- Module 18: Deploying an app to the Google Play Store
- Module 19: Introduction to iOS
- Version Control using Git

Week 8:

- Module 19: The API Economy
- Backend Architectures

Enrolled Students: 44

1	Girija Malav
2	Aakanksha
3	Akshay Maheshwari
4	Akanksha
5	Anish
6	Anjali Kumari
7	Anuj Jain
8	Apurva Tiwari
9	Ashima Sidana
10	Ashish Jain
11	Ashish Singh Kushvah
12	Ayush Chhawal
13	Ramjilal Choudhary
14	Teena Kumari
15	Divyansh Dhamaniya
16	Shubham Kumar
17	Harsh Gupta
18	Heena Vasdani
19	Himanshu Ganglani
20	Kartik Gautam
21	Kapil
22	Kuldeep Kaushik

23	Lakshman Rajpurohit
24	Lokesh Singhal
25	Aditya Kumar Mehta
26	Mitali Bajaj
27	Mudit Choraria
28	Nishant Kumar Nishu
29	Piyush Jain
30	Pranshu Rastogi
31	Rajat
32	Ranjeev Kumar
33	Ritvik Jain
34	Sani Bashir Adamu
35	Saurabh Jain
36	Shruti Gupta
37	Shubham Bhargava
38	Snehil Tiwari
39	Harsh Tenguriya
40	Upendra Upadhyay
41	Vaibhav
42	Vivek Pandey
43	Zubin Mehta