

Integrated curriculum planning chart **Map**

Dentsu (information systems, communication and networking courses)

| Information and systems | 1 st Master | | 2 nd Master | | 1 st PHD | | 2 nd PHD | |
|-------------------------------|-----------------------------|------------------------------------|--------------------------|-------------------------------------|-------------------------------|--------------------------|--------------------------|--------------------------|
| | 2 nd semester | 1 st semester | 2 nd semester | 1 st semester | 2 nd semester | 1 st semester | 2 nd semester | 1 st semester |
| Computer systems | Calculator structure | | Fault-tolerant system | | | | | |
| | Real-time system | Theory of computation | Build system | Advanced calculator for calculus | Advanced databases | | | |
| Software engineering | Object-oriented programming | Design of embedded middleware | Fault-tolerant system | Network systems design and analysis | | | | |
| | | Systems analysis and design theory | | Cloud computing and security | Advanced software engineering | | | |

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| Multimedia systems | | Multimedia communication | Calculator image system | | Multidimensional geometry of computer vision | | | |
| | Data compression | Design of embedded middleware | Digital signal processing | Digital video | | | ADVANCED SOFTWARE ENGINEERING | |
| Computer networks | Internet architecture | Network security | | MULTIMEDIA COMMUNICATION | COMPUTER GRAPHIC SYSTEM | | MULTIPLE VIEW GEOMETRY IN COMPUTER VISION | |
| | Network management | | Mobile communications networks and services | Cloud computing and security | | | | |

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|------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Communication and networking | 1 st Master | | 2 nd Master | | 1 st PHD | | 2 nd PHD | |
| | 2 nd semester | 1 st semester | 2 nd semester | 1 st semester | 2 nd semester | 1 st semester | 2 nd semester | 1 st semester |

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|-----------------------|----------------------------|------------------------------------|------------------|--|--|--|--|--|
| Signal processing | Digital video | | | | | Intelligent media processing and compression theory | | |
| | Wavelet signal processing | Matrix theory and computation | Fourier analysis | | | Wavelet theory | | |
| Communication systems | Random program | Detection and evaluation of theory | | | | | | |
| | Communications electronics | Adaptive signal processing | | | | Communication-related topics on signal processing algorithms | | |
| | Communication theory | Error-control coding | | | | | | |
| Communication network | Communication network | Wireless network applications | | | | Topics on wireless communication system | | |

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|----------------------------|--------------------------------------|---|-------------------------------|--|--|--|--|--|
| | Queuing theory | Network performance analysis and simulation | | | | | | |
| | Game theory | Control and optimization of wireless networks | | | | Topics on communication networks | | |
| | Design of device firmware and driver | Network security | | | | Modern communication monographs | | |
| Fiber-optic communications | Communication theory | Electro-optical communication system | Optical communication network | | | Optical fiber access network to House monographs | | |
| | | | Communications electronics | | | | | |
| RF and microwave | ANTENNA ENGINEERING | | | | | | | |

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| | RF microwave communication circuit | | | | | Special Topic On RF signals and systems analysis | | |
| | Solitaire radio frequency integrated circuit design | PLL/DLL Design and application of | | | | | | |
| Microwave circuit | Microwave engineering | The signal integrity of high-speed transmission | | | | | | |
| | | | | | | Special Topic On Advanced Microwave theory | | |
| Electromagnetic theory | | Advanced theory of electromagnetism | | | | | | |