

De-suung Skilling Programme

ICT Domain Training Guide for Desuups

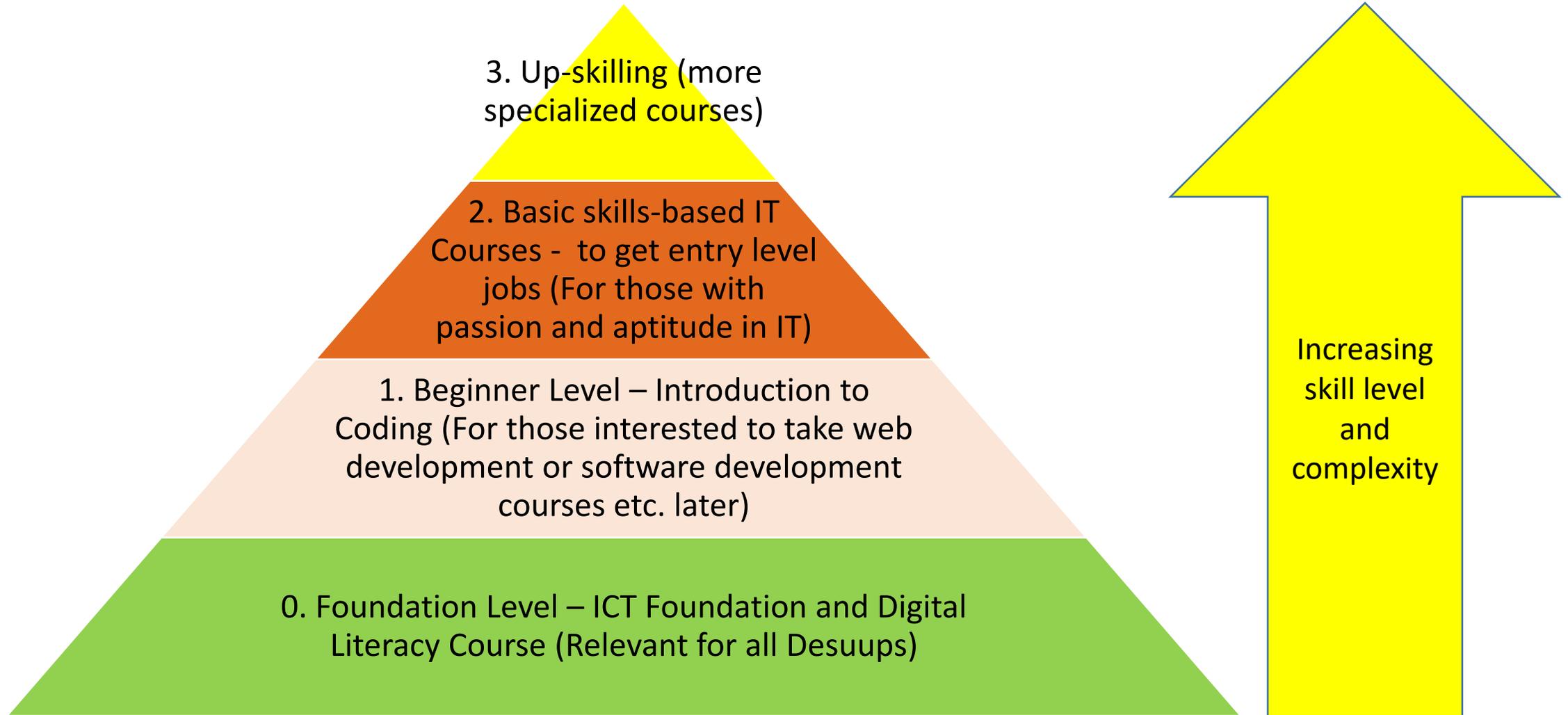
All Desuups interested in DSP ICT trainings should refer this guide to make an informed decision.

Please think and choose your trainings carefully, not randomly.

Prepared By: Tshering Cigay, ICT Domain Lead

©DSP 2023

DSP ICT trainings are designed to impart skills at different levels. Start from a level that suits you.



Level 0: ICT Foundation and Digital Literacy

- **Course name:** ICT Foundation and Digital Literacy
- **Duration:** 1 month
- **Trainers:** DSP's in-house trainers or college lecturers
- **Frequency:** 2-3 times a year (we also conduct this training in RUB Colleges during their summer and winter breaks).
- **Learning outcome:** Know how to use Microsoft Word, Excel, Powerpoint etc. plus Internet search, online safety, social media usage etc.
- **Who should take this course?** All De-suups with no IT background and want to gain basic IT skills and digital literacy which are a must in this digital era.

Level 1: Introduction to Coding

- **Course name:** Introduction to Coding
- **Platform used:** bsd.education
- **Learning outcome:** Understand how coding it works and be able to write simple computer programs.

Note: This training will also make you understand whether you have the aptitude for computer programming or not. If you do not enjoy coding, you should then choose digital marketing, graphic design, animation, CAD etc. for your next level course.

- **Duration:** 2 months
- **Frequency:** 2-3 times a year
- **Trainers:** DSP's in-house trained trainers
- **Who should take this course?** Those interested to learn coding or those who want to take web development, or app development or game development course etc. later.

Level 2: Basic ICT Skills-based trainings

Objective: These courses will give you basic skills level to get entry level jobs or become self employed in ICT industry. To go to next level, take more courses and adopt lifelong learning through practice and online courses.

These courses can be divided into 2 categories. Choose a program that suits your passion and aptitude.

1. Courses that do not need coding skills:

Digital marketing, graphic design, animation, video editing, Computer aided design etc.

2. Courses that need at least some coding skills (Generally recommended for those good in Maths and logic):

Web development, Full stack development, Mobile App development, Python programming and data analytics, networking, C# Programming, cyber-security, Robotics, Industrial automation etc.

Trainers: Generally experts from abroad

Duration: 3-6 months depending on the course

Frequency: Each course 1-3 times a year depending on the availability of trainers.

Who should take these courses? If you have some IT knowledge or have completed 'Introduction to Coding' course, and have the interest to become an IT professional.

Level 3: Up-skilling – more specialized courses

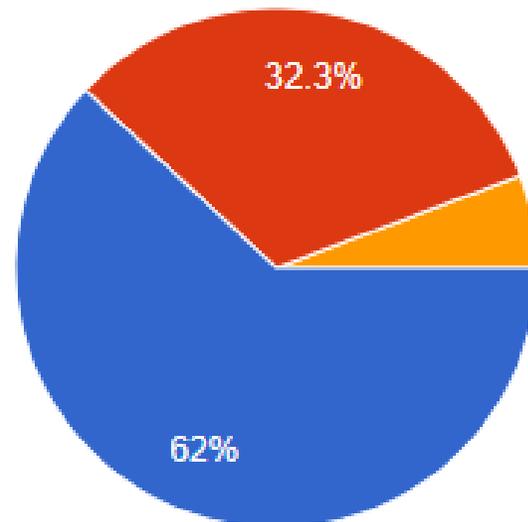
- **Objective:** To provide more specialized skills.
- **Frequency:** Each course 1-3 times a year depending on the availability of trainers.
- **Trainers:** Generally experts from abroad
- **Training program examples:**
 - Game Development using C# - by expert trainer from abroad
 - Cisco Certified Network Associate (CCNA) course - at RIM, Bhutan
 - 3D Animation – currently provided by Toonz Media Group, India
 - Online Freelancing – currently provided by Learnio, Denmark.
 - UI/UX Design – by expert trainer from abroad
 - Mobile app development – by expert trainer
 - Progressive Web App Development – by expert trainer
 - Cloud computing, DevOps etc. – by expert trainer
- **Who should take these courses?** These are recommended for those who have completed at least one relevant Level 2 course.

Of the 2,024 Desuups trained under ICT domain as of 11th April 2023, 94.3% of 351 survey respondents said they learnt useful skills, of which 62% said it will help them find jobs

How did you find the DSP training?



347 responses



- I learnt useful skills that will help me find a job or start a business
- I learnt useful skills for my life even though they may not help me earn my livelihood
- I tried my best but I could not learn much from the training
- I had no interest and I did not learn anything

JOB OPPORTUNITIES

- With the DSP ICT courses, you have the opportunity to become one of the following nine technicians or specialists (see next two slides). Whether you become an entry level IT technician or a specialist in your chosen field depends on the depth and level of your skill. If you keep learning and practising with passion and determination beyond the training provided, you can become a specialist after some time.
- To improve your chances of self-employment after completing the recommended trainings for a profession given below, join a freelancing or business incubation training provided by DSP.

Profession/Job	Recommended training pathway	Aptitude needed
Digital marketing technician/specialist	ICT Foundation => Introduction to coding => Digital Marketing => Freelancing training	Design and communication skills
Graphics designer /animator /specialist	ICT Foundation => Graphics Design /Animation=>Freelancing training	Design and artistic skills
Website developer	ICT Foundation => Introduction to coding => Website Development course => Freelancing training	Design and coding skills
IT helpdesk support/Networking technician/specialist	ICT Foundation => Introduction to coding => Networking course (CCNA) > advanced networking course	Logical reasoning skills
Data analyst/scientist	ICT Foundation => Introduction to coding => python programming for data analysis =>advanced data science course (if possible)	Logic and coding skills (preferably good in maths)

Profession/Job	Recommended training pathway	Aptitude needed
Cloud computing technician/specialist	ICT Foundation => Introduction to coding => Networking or an intermediate programming course => Cloud computing =>freelancing training	Logic and coding skills (preferably good in maths)
Cybersecurity technician/specialist	ICT Foundation => Introduction to coding => Networking or an intermediate programming course => Cybersecurity technician course => Advanced cybersecurirty course	Logic and coding skills (preferably good in maths)
Java full stack developer	ICT Foundation => Introduction to coding => intermediate programming or website development course => Java full stack development	Logic and coding skills (preferably good in maths)
Robotics/Industrial automation technician/specialist	ICT Foundation => Introduction to coding => Robotics or Industrial Automation course	Logic and engineering skills

Thank You.

For enquiries or advice, please call Desuung
Contact Centre at 1411 or email to
drcigay@desuung.org.bt

Note: Courses are subject to change, while new courses may be added.