# Lesson 8

#### **Coordinative abilities**

# THEORY OF SPORT TRAINING BASIC PRINCIPLES

# What is it?

### COORDINATION

General quality to manage and control the movement

Farfel(1975): the ability to realize simple or complex integrative movements fast and exactly during constant or changing conditions and the ability to learn new skills fast.

### COORDINATION

From point of biomechanics:

Mastering the many degrees of freedom involved in the movement.

# SKILLS

The abilities to realize the movement, which are learned during training process.

### PRECONDITION OF COO-A

- Sood state of central and peripheral neural system.
- Cood state and function of senses visual, kinaesthetic, auditory
- Good state of muscular system
- x Good connection of neural-muscular system
- State of psychological processes

# **QUALITY OF COORDINATION WE CAN OBSERVE**

- As the fast and correct or appropriate reaction to the stimulus
- As an ability to take up or maintain the right position, posture of all body
- Coordination of smaller parts of body, and their integration to the harmonized complex movement
- In the better and faster learning of new movement in short time and in good quality
- In the adaptation to the new and changing inner or outer conditions during movement, during race, competition
- In the choice of the right movement programmes and the economy realization

# **MOTOR LEARNING**

Cognitive Phase (generalization)

Associative Phase (differentiation)

× Autonomous Phase (automation)

Creative coordination

# COORDINATION

× General

The ability realize very effectively various skills without sport specialization

Specific

The ability of effective and intensive realization various specific movements, technique of chosen sports.

# PARTIAL COORDINATIVE ABILITIES

- \* Balance
- Kinaesthetic differentiation
- Spatial orientation
- Reaction
- × Rhythm
- Synchronization of movement
- Agility

# **DEVELOPMENT OF COORDINATION**

- \* Age
- Frequency
- Structure of training unit
- \* Fatigue
- Variability, diversity,
- versatility

# THE GROUPS OF EXERCISES FOR CA DEVELOPMENT

- Activity of single parts of body (mirror movement, asymmetric..)
- Movement activity in various environment
- Activity with exclusion of senses
- Activity of couples or more athletes in group
- Activity to various stimulus, signals
- Movement activity in various combinations

# **BASIC EXERCISES**

- \* Acrobatic exercises, gymnastic exercises
- Exercises with sports gear,
- exercise in another environment water
- ABC from another sports Games, athletics
- **×** Exercises with hurdles
- Combative and small games
- × Throws,
- Carry some gear, equipment, load