Week 5 Introduction to Exercise Programme

DEPARTMENT OF STUDENT AFFAIRS
TUNKU ABDUL RAHMAN UNIVERSITY COLLEGE

Workout Schedule

Sunday

Stretching / Yoga

Monday

Full Body

Wednesday

Upper Body + Lower Body

Friday

Rest Day

Tuesday

Upper Body + Core

Thursday

Core + Lower Body

Saturday

Full Body

GettinMyHealthyOn com

Exercise Programme / Training Programme

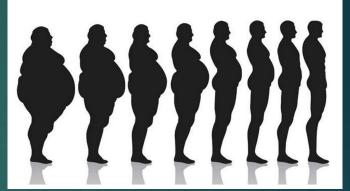
- An exercise programme detailing a range of physical exercise and the amount of time, repetition and set of each exercise should be perform.
- Complete exercise programme should incorporate three basic components.
 - 1. Aerobic endurance (cardio)
 - 2. Flexibility exercise
 - 3. Muscular strength and endurance conditioning
- ▶ Different considerations should be included when developing exercise programme for ourselves.

Considerations When Design an Exercise Programme

Need analysis

- What is your goal?
 - Purpose of training- to improve sport performance, to improve general health / fitness level, to increase muscle mass or to lose weight?
- 2. What is your current fitness level?
 - Are you a beginner in exercise or you have athletic / sports background?
 - Regular gym goers or new to gym workout?
 - Familiar with exercise movement?







Considerations When Design an Exercise Programme

Need analysis

3. Age

- Fitness level depending on individual's age
- Elder individuals may not be able to exercise at high intensity level

4. Gender

- Female and male has advantages in different fiends
- Generally, female has better movement control and flexibility while male has better performance in strength





F.I.T.T Principles

- Frequency
 - Number of exercise session per week
 - Training frequency per week is based on the function of the training session and the individual experience and physical condition
 - i.e. Three workouts per week allow adequate recovery, especially for the novice
- ▶ Intensity
 - Degree of effort put into the training session
 - Often viewed as the most important of the exercise variables
 - Intensity refers to the load being lifted compared with the 1RM. The closer a
 load is to maximum, the higher the exercise intensity.

FITT Principles

- ▶ Time
 - Refers to the duration of each exercise session
 - How long should your exercise session should be?
 - i.e. Aerobic activities such as jogging or swimming should done between 20-60 minutes.
- ▶ Type
 - Type is the mode of exercise being performed
 - Different types of activities build different components of fitness.
 - Jogging, swimming and bicycling are more effective on improving cardiovascular endurance

Example of Applying F.I.T.T. Principles into Different Fitness Components

Aerobic	Flexibility	Muscular Endurance	Muscular Strength	Body Composition
3-5 times / week	Daily Warm-up Cool down	Daily for some muscle groups 3-4 times / week	3 times / week Different muscle groups	Daily exercisingFollow Canada'sFood Guide
• 60-90% of max. heart rate	Hold 15-30 secondsTotal body1-3 reps	 15[†] reps ,50% max. weight Body weight 1-3 sets 8-12 exercises 	 70-90% of 1-rep max. 1-4 sets 8-12 reps 8-12 exercises 	 Light to moderate
15-60 minutes of continuous activity Progressive	• 10-20 minutes	30-60 minutesProgressive	15-60 minutes Progressive	30-60 minutes Progressive
 Large muscle groups Continual rhythmic Running, cycling, swimming Games 	static stretchcontrolled dynamic stretch	resistance trainingbody weightcircuit training	resistance training	 aerobic activity walking, running, cycling, swimming

Choices of exercise

- Exercise an individual choses for a program
- Compound exercise or isolation exercise is more suitable?

Order of exercises

Performing large muscle group exercise prior to exercising the smaller muscle group

THE DIFFERENCE BETWEEN COMPOUND vs. ISOLATION



Sets and Reps

- Number of times when performing an exercise
- Set number of cycles perform the exercise
- Reps number of times perform the exercise in ONE CYCLE

Length of recovery period

- A rest interval is the amount of time spent recovering between each set
- 2. Rest days / time for the individuals to recover and let body adapt to the demand placed on it

Progressive overload

Overload

- Perform more than normal amount of exercise to gain improvements
- i.e. More weights are added in order to see improvement in muscular strength

Progression

- Overload should be applied gradually and steadily increased.
- Systematically increased by altering frequency, duration, or intensity.

	Training load	Intensity	Changes made
	(volume)		
D	2-3 hours, 5x/week	60-90% maximal heart	No changes
Previous Week		rate	***
1st week	1-2 hours, 3x/week	60-70% maximal heart	Bare minimum
		rate	(initial value)
2 nd week	1-2 hours, 3x/week	60-80% maximal heart	Increase 10% in intensity
		rate	
3 rd week	2-3 hours, 3x/week	60-90% maximal heart	Increase duration and
		rate	10-20% in intensity
4 th week	2-3 hours, 5x/week	60-90% maximal heart	Increase frequency of training per
		rate	week

General Guidelines to Improve Muscular Strength, Muscular Endurance and Hypertrophy

General ACSM Guidelines

	Endurance	Hypertrophy	Strength		
Exercise selection	Traditional or circuit, emphasize 5 movement patterns. Can incorporate muscle group training	Both compound and isolation, focusing on major muscle groups	5 movement patterns focusing on compound movements. Add isolation as well		
Intensity	< 70% 1RM	70-85% 1RM (Novice – Intermediate) 70 -100% (Advanced)	60-70% 1RM (Novice – Intermediate) 80-100% (Advanced)		
Repetitions	10 – 25 repetitions	8 – 12 reps (Novice – Intermediate) 1 – 12 reps (Advanced)	8 – 12 reps (Novice – Intermediate) 1 – 8 reps (Advanced)		
Volume	2 – 4 sets	1 – 3 sets (Novice – Intermediate) 3 – 6 sets (Advanced)	1 – 3 sets (Novice – Intermediate) 2 – 6 sets (Advanced)		
Tempo	3-4/1/1-2	3-4/1/1-2	3-4/1/1-2		
Rest interval			2 – 3mins (high intense exercise, heavier loads) 1 – 2mins (low intense exercise, light loads		
Frequency	2 – 3 days/week (Novice) 3 days/week (Intermediate – total-body workouts) 4 days/week (Intermediate – split routine workouts) 4-6days/week (Advanced – split routine, 1-3 muscle group/workout)				