

## ASSIGNMENT II

**Q :** In an inventory of a stand of *Pinus Patula* the following data were collected.

$n = 5$ ,  $a = 0.004$  ha

Trees Plots	1	2	3	4	5	6
	Volumes ( $m^3$ tree)					
1	0.52	0.26	0.36	0.26	0.21	-
2	0.41	0.37	0.48	0.23	0.31	-
3	0.39	0.26	0.41	0.24	0.21	0.32
4	0.31	0.27	0.21	0.33	0.24	0.34
5	0.33	0.44	0.29	0.37	-	-

Calculate the volume per hectare of the crop.

**Q:** In an inventory of a stand of *Pinus Petula* the following data were collected

- $N=5$ ,  $a= 0.01$  ha.  $m_i$  = Total # of trees in  $i^{\text{th}}$  plot,  $s_i$  = no of trees in sub sample of plot  $i$

<b>i</b>	<b><math>m_i</math></b>	<b><math>\frac{m_i}{\sum g_{ij}}</math> <b><math>m^2</math></b></b>	<b><math>s_i</math></b>	<b><math>d_{ik}</math></b> <b>cm</b>	<b><math>v_{ik}</math></b> <b><math>m^3</math></b>
1	11	0.132	4	12.4	0.15
				12.8	0.13
				14.4	0.16
				13.3	0.11
2	13	0.132	4	13.9	0.14
				12.4	0.12
				12.8	0.13
				12.9	0.13
3	9	0.119	3	12.3	0.13
				14.9	0.14
				16.4	0.20
4	11	0.100	4	12.7	0.12
				13.8	0.15
				13.4	0.13
				14.3	0.13
5	12	0.140	2	17.9	0.25
				14.2	0.20

Estimate the volume per ha.

