



# Forest Management NRM 2208



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**Faculty of Forestry**  
**Sher-e-Kashmir University of Agricultural Sciences and  
Technology of Kashmir**

## Course Overview and Introduction

<b>Course code</b>	:	<b>NRM 2208</b>
<b>Course Title</b>	:	<b>Forest Management</b>
<b>Number of credits</b>	:	<b>4</b>
<b>Course duration</b>	:	<b>18 weeks</b>
<b>Level</b>	:	<b>Undergraduate</b>
<b>Link to the course</b>	:	<a href="https://www.skuastkashmir.ac.in/DisplaySInformation.aspx?id=12&amp;pid=103344">https://www.skuastkashmir.ac.in/DisplaySInformation.aspx?id=12&amp;pid=103344</a>

# Course Syllabi and Outline

<b>UNIT 1</b>	
<b>Week1</b>	Definition, scope, objective and principles of forest management,
<b>Week2</b>	organization of state forests-
	Practical: Visit to different forest divisions to study the various stand management aspects including thinning, felling and sale of timber.
<b>Week3</b>	sustained yield-definition, principles and limitations.
	Practical: Study forest organizational set up and forest range administration including booking of offences.
<b>Week4</b>	Sustainable forest management-criteria and indicators-Increasing and progressive yields-
<b>UNIT 2</b>	
<b>Week5</b>	Rotation -definitions-various types of rotations-length of rotations
	choice of type and kind of rotation.
<b>UNIT 3</b>	
<b>Week6</b>	Normal forest-definitions basic factors of normality.
	Practical: Visit to forest plantation- Field Exercise for the estimation of actual growing stock volume.
<b>Week7</b>	Factors governing the yield and growth of forest stands-
<b>Week8</b>	Mid Term Exam
<b>UNIT 4</b>	

<b>Week9</b>	<b>Working plan-preparations-</b>
<b>Week10</b>	objectives and uses-forest maps and their uses.
<b>Week11</b>	Joint forest management-concept and principles-
	Practical: Study the different field exercises for data collection for working plan.
<b>UNIT 5</b>	
<b>Week12</b>	Modern tools in forest management.
<b>Week13</b>	Even-aged and un-even aged models.
<b>Week14</b>	Estimation of growing stock, density, quantity and increment.
<b>UNIT 6</b>	
<b>Week15</b>	Green space planning and design,
	Practical: Visit to urban parks, Green belts and Urban green spaces
<b>Week16</b>	Recreation and well-being,
	Practical: Urban tree cover assessment, Case studies.
<b>Week17</b>	Climate change and sustainability viz-a-viz Urban forest management, Urban forest management plan.
<b>Week18</b>	Practical Exam/Assignment submission/Presentation
	End Tem Exam

## E-Links to the course (Video/Textbook)

Topic	E-Link to Course
Introduction to Forest Management	<a href="https://www.youtube.com/watch?v=Le36FQn7yGY&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=1&amp;t=175s">https://www.youtube.com/watch?v=Le36FQn7yGY&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=1&amp;t=175s</a>
Objectives of Forest Management	<a href="https://www.youtube.com/watch?v=WKjzo8MYiIs&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=2">https://www.youtube.com/watch?v=WKjzo8MYiIs&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=2</a>
Forest Organization Part-1	<a href="https://www.youtube.com/watch?v=ZzqzIjSMulU&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=3">https://www.youtube.com/watch?v=ZzqzIjSMulU&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=3</a>
Forest Organization Part-2	<a href="https://www.youtube.com/watch?v=3QIzozg8D2II&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=4&amp;t=74s">https://www.youtube.com/watch?v=3QIzozg8D2II&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=4&amp;t=74s</a>
Peculiar Features of Forests	<a href="https://www.youtube.com/watch?v=-hXLq85Rv8&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=5">https://www.youtube.com/watch?v=-hXLq85Rv8&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=5</a>
Sustained Yield	<a href="https://www.youtube.com/watch?v=TEv8nRXaa58&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=6">https://www.youtube.com/watch?v=TEv8nRXaa58&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=6</a>
Progressive Yield and Pre-requisites of sustained Yield	<a href="https://www.youtube.com/watch?v=LbIRZw8ac64&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=7">https://www.youtube.com/watch?v=LbIRZw8ac64&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=7</a>
Rotation	<a href="https://www.youtube.com/watch?v=0Ac8PTRUorw&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=8">https://www.youtube.com/watch?v=0Ac8PTRUorw&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=8</a>
Soil/Land Expectation Value	<a href="https://www.youtube.com/watch?v=Uz_6UMreH_Q&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=9">https://www.youtube.com/watch?v=Uz_6UMreH_Q&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=9</a>
Choice and Length of Rotation	<a href="https://www.youtube.com/watch?v=hOSJb7d3CIY&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=10">https://www.youtube.com/watch?v=hOSJb7d3CIY&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=10</a>
Conversion	<a href="https://www.youtube.com/watch?v=6YNXDRigZKM&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=11">https://www.youtube.com/watch?v=6YNXDRigZKM&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=11</a>
Normal and Abnormal Forests	<a href="https://www.youtube.com/watch?v=8wKf9CHKWxQ&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=12">https://www.youtube.com/watch?v=8wKf9CHKWxQ&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=12</a>
Schneider's formula of increment	<a href="https://www.youtube.com/watch?v=5Uj7NTi6QGw&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=17&amp;t=2s">https://www.youtube.com/watch?v=5Uj7NTi6QGw&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=17&amp;t=2s</a>

Normality in Regular/Irregular Forests	<a href="https://www.youtube.com/watch?v=CgH-DhV7hVg&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=13">https://www.youtube.com/watch?v=CgH-DhV7hVg&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=13</a>
De Liocourt's Law of Diameter distribution	<a href="https://www.youtube.com/watch?v=DSiYQNg2vdQ&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=14">https://www.youtube.com/watch?v=DSiYQNg2vdQ&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=14</a>
Current Annual Increment and Mean Annual Increment	<a href="https://www.youtube.com/watch?v=ipk10O70-ig&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=15">https://www.youtube.com/watch?v=ipk10O70-ig&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=15</a>
Pressler's Formula of Increment	<a href="https://www.youtube.com/watch?v=cNLHKwXmF7w&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=16">https://www.youtube.com/watch?v=cNLHKwXmF7w&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=16</a>
Growing Stock	<a href="https://www.youtube.com/watch?v=opulxHotsrI&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=18">https://www.youtube.com/watch?v=opulxHotsrI&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=18</a>
Estimation of Growing Stock using MAI method	<a href="https://www.youtube.com/watch?v=psLZAT-liao&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=19">https://www.youtube.com/watch?v=psLZAT-liao&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=19</a>
Estimation of Growing Stock using Yield Table Method	<a href="https://www.youtube.com/watch?v=opv7tfrg7YE&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=20">https://www.youtube.com/watch?v=opv7tfrg7YE&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=20</a>
Relationship between growing stock and yield	<a href="https://www.youtube.com/watch?v=o_8w7LZVUtM&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=21">https://www.youtube.com/watch?v=o_8w7LZVUtM&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=21</a>
Reducing factors or Modified areas	<a href="https://www.youtube.com/watch?v=Hb_RXoGla2Y&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=22">https://www.youtube.com/watch?v=Hb_RXoGla2Y&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=22</a>
Even aged and uneven aged forest models	<a href="https://www.youtube.com/watch?v=em53n_v7V8g&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=24&amp;t=227s">https://www.youtube.com/watch?v=em53n_v7V8g&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=24&amp;t=227s</a>
Joint Forest Management (Concept and Meaning)	<a href="https://www.youtube.com/watch?v=xjhSi80TFW0&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=25">https://www.youtube.com/watch?v=xjhSi80TFW0&amp;list=PLgQLxnNI9f_CfAhgt1TIAvKxu2P5Zss_W&amp;index=25</a>

The course prepares students for careers as leaders in understanding sustainable forest management, rotation, normality and forest models based on age, I exposes students to modern tools and applications in forest management. It further guides into planning green spaces, climate change and urban forest management plans.

## Course Objectives



# Learning Outcomes



- Management of forests for protection, environment, recreation and social aspects.
- Innovation in existing forest working and management plans.
- Abilities and skills to plan green spaces in urban areas applying modern tools of management.

Thank You!