



## B. Sc. (Botany) SEMESTER-II

### Paper-II

(Fungi, Lichen, Plant-Pathology, Bryophyta and Mushroom cultivation)

#### UNIT-I

**Fungi:** General characteristics

[https://youtu.be/gtpQDARn\\_pM?si=gbYTTEUDpDhX0ObM](https://youtu.be/gtpQDARn_pM?si=gbYTTEUDpDhX0ObM)

**Classification (Alexopolous 1996)**

[https://youtu.be/RWLChds876M?si=6\\_sNJ9TSSYz3G5Rm](https://youtu.be/RWLChds876M?si=6_sNJ9TSSYz3G5Rm)

**Economic Importance**

<https://youtu.be/SjqYF1hZHaI?si=8WA0Prs4CbweIDUj>

**Life history of *Albugo***

<https://youtu.be/SwZhaGjC-w?si=e30UvDEehI4aAWlg>

***Mucor***

<https://youtu.be/HuO7SQidLdk?si=gbiq2VrySbnGE-Zf>

***Puccinia***

<https://youtu.be/toMRM7ooVF8?si=7auK1QTq4o7MgYmd>

***cercospora***

[https://youtu.be/mleIEYzdCtk?si=ekIfTyls-\\_TzBKE0](https://youtu.be/mleIEYzdCtk?si=ekIfTyls-_TzBKE0)

#### UNIT-II

**Plant Pathology:** Host, Pathogen, symptoms, causes and control of disease:

**Leaf of curl of Papaya**

<https://youtu.be/5BocBptPPyM?si=n-6Zhu4oYj-GDDcr>

**citrus canker**

[https://youtu.be/2UF\\_4P6LST4?si=w5jgdoH6WXemQib3](https://youtu.be/2UF_4P6LST4?si=w5jgdoH6WXemQib3)

**Red rot of sugarcane**

<https://youtu.be/B-ZADT2RhkM?si=TPkVRY4e6X3Jld20>



**Lichen:** Introduction, Types, Reproduction

<https://youtu.be/qxH9T-3xEIw?si=94j43PY6K2Fafz5D>

**Economic importance of Lichen**

<https://youtu.be/1QnwhughZiQ?si=JbIS-jPSakMmyBpA>

### UNIT-III

**Bryophyta:** General characteristics

[https://youtu.be/czBdDUL\\_xSg?si=2nphcNrP43F3S3IY](https://youtu.be/czBdDUL_xSg?si=2nphcNrP43F3S3IY)

**Classification ( Proskauer 1957)**

<https://youtu.be/8x9M35DDQzE?si=pdduxfab7snm5pBZ>

**Economic importance**

[https://youtu.be/XOTex\\_qcCLc?si=L8zoZdO5jut1ynCh](https://youtu.be/XOTex_qcCLc?si=L8zoZdO5jut1ynCh)

**Life cycle of *Marchantia***

[https://youtu.be/VT088v9Fq3o?si=\\_oKpbQYhZm7XgCHI](https://youtu.be/VT088v9Fq3o?si=_oKpbQYhZm7XgCHI)

<https://youtu.be/GY3YD9sOyfA?si=rjpaJVic5TUHO5JV>

***Anthoceros***

[https://youtu.be/XREKC2DUY4s?si=xowYazP\\_BfYePbSv](https://youtu.be/XREKC2DUY4s?si=xowYazP_BfYePbSv)

<https://youtu.be/bbBG0DhKbn4?si=ymc7qLv55NFeRhM9>

***Funaria***

<https://youtu.be/dvHVPo9yjUY?si=-yB0eoRqhhgezFJW>

### UNIT-IV

**Mushroom cultivation:**

**Introduction:** Nutritional and medicinal value of edible mushroom; Poisonous mushroom,

<https://youtu.be/JoGWyPNUVke?si=SFLAsGyMIOeqYg-z>

**Edible mushroom: *Volvariella volvacea***

<https://youtu.be/AyQI6ZrIjNo?si=KZzonX9ulgwcW8Nt>



*Pleurotus citrinopileatus*

[https://youtu.be/7o\\_AGJqmMrs?si=vk5Wcl-BhtSJkHi-](https://youtu.be/7o_AGJqmMrs?si=vk5Wcl-BhtSJkHi-)

*Agaricus biosporus*

<https://youtu.be/T8LrW-AFq9g?si=HQOIQFNmAbjux9EA>

<https://youtu.be/E81SveuJNSc?si=l2EqG4qL30zbnj3L>

**Technology of Mushroom cultivation:** Infrastructure: Mushroom unit (Thatched house)

[https://youtu.be/jU8UMA5JGQI?si=CBFrjr-A\\_FMT8xOk](https://youtu.be/jU8UMA5JGQI?si=CBFrjr-A_FMT8xOk)

**Tools:** Polythene lags, vessels, inoculation hook, inoculation loop, low cost stove, sieves, culture rack water sprayer, tray, medium.

<https://youtu.be/pwGtWu4rEYY?si=vb3gaDHT8PCvu8cG>

[https://youtu.be/Z9gKWDrpdLY?si=8\\_vHHrP9zh6fhX\\_8](https://youtu.be/Z9gKWDrpdLY?si=8_vHHrP9zh6fhX_8)

**Techniques:** Substrate

[https://youtu.be/9QZDXjD2iyU?si=oo50\\_syO2JGYXTd7](https://youtu.be/9QZDXjD2iyU?si=oo50_syO2JGYXTd7)

Preparation of medium and spawn, sterilization, multiplied preparation (Paddy straw, Sugarcane trash, banana leaves)

<https://youtu.be/C2Llr06U7i0?si=Fms2sytoBFSuErN>

[https://youtu.be/kJM9e\\_i8Cms?si=qk9NNMi9N6HWRa3a](https://youtu.be/kJM9e_i8Cms?si=qk9NNMi9N6HWRa3a)