

# Indian Institute of Information Technology Allahabad, Prayagraj

## Electronics and Communication Engineering Department



Self Financed Course-cum Workshop on  
**Photonics Principles and Optical Networks (PPON-2021)**  
(with **Dr. Rajat Kumar Singh** as Main Teacher and Coordinator)  
in **Online Mode** (due to COVID-19)

19-21<sup>st</sup> Nov 2021

(<https://ppon.iita.ac.in/>)

### Workshop Schedule

#### DAY –1 (19<sup>th</sup> Nov, 2021)

##### TIMINGS

##### ACTIVITIES

10.30am to 11.15am	<i>Inaugural Ceremony</i>
11.15am to 12.15pm	Lecture - 1 – RKS-1-(Introduction to Optical Networks)
12:15pm to 12:30pm	Break
12:30pm to 01:45pm	Lecture – 2 – SV-1- ( <b>Deep learning for Design of Photonic Structure</b> )
01:45pm to 03:00pm	Lunch Break
03:00pm to 04:15pm	Lab Session -1 – RKS-2-( <b>Demonstration of Optical Components Kits &amp; Fiber Splicing Technique</b> )
04:15pm to 05:30pm	Lecture – 3– RKS-3-( <b>Modulation/DeMod Techniques in Optical Network</b> )

#### DAY –2 (20<sup>th</sup> Nov, 2021)

10.30am to 11.45am	Lecture - 4 – YNS-1-( <b>WDM Optical Networks - 1</b> )
11:45am to 12:00pm	Break
12:00pm to 01:15pm	Lecture - 5 – SS-1-( <b>Tunable Photonics: A PCM Based Approach</b> )
01:15pm to 03:00pm	Lunch Break
03:00pm to 04:15pm	Lecture - 6 – RKS-4-( <b>Optical Time Division Multiplexing -OTDM</b> )
04:15pm to 05:30pm	Lab Session -2 – RKS-5-( <b>OptiSystem Software Demonstration</b> )

#### DAY –3 (21<sup>st</sup> Nov, 2021)

10.30am to 11.45am	Lecture – 7 – YNS-2-( <b>WDM Optical Networks - 2</b> )
11:45am to 12:00pm	Break
12:00pm to 01:15pm	Lecture – 8 – RKS-6-( <b>Optical Switching and Buffering</b> )
01:15pm to 03:00pm	Lunch Break
03:00pm to 04:15pm	Lecture – 9 – RKS-7-( <b>Congestion Control and Quality of Service</b> )
04:15pm to 04:30pm	Vote of Thanks and Feedback collections
04:30pm to 05:30pm	Lab Session -3 – RKS-8-( <b>Complimentary Session for interested Candidates</b> )

#### Acronyms:

**YNS-** Prof. Y N Singh, **SV-** Prof. Shekhar Verma, **SS-** Dr. Sunny Sharma, **RKS-** Dr. Rajat Kumar Singh