



ਆਈ.ਕੇ. ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ (ਅਕਾਦਮਿਕ ਵਿਭਾਗ)



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ਪ੍ਰਿੰਸੀਪਲ / ਡਾਇਰੈਕਟਰ / ਕੈਂਪਸ ਇੰਚਾਰਜ / ਵਿਭਾਗ ਮੁੱਖੀ
ਯੂਨੀਵਰਸਿਟੀ ਕੈਂਪਸ, ਖੇਤਰੀ ਕੈਂਪਸ, ਐਫੀਲੇਟਿਡ ਕਾਲਜ / ਸੰਸਥਾਵਾਂ
ਆਈ.ਕੇ.ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ ਜਲੰਧਰ

ਰਾਹੀਂ: www.ptudocs.com and www.ptu.ac.in

ਵਿਸ਼ਾ :-

Regarding list of MOOCs courses for the session January – June 2021, for minor degree program in B.Tech Electrical Engineering (for batches 2018 & 2019).

ਉਪਰੋਕਤ ਵਿਸ਼ੇ ਦੇ ਸਬੰਧ ਵਿੱਚ ਆਪ ਜੀ ਨੂੰ ਬੀ.ਟੈਕ. ਬੈਚ 2018 ਅਤੇ 2019 ਦੇ ਵੱਖ ਵੱਖ ਬ੍ਰਾਂਚਾਂ ਦੇ ਵਿਦਿਆਰਥੀ ਜਿਹੜੇ ਕਿ ਬੀ.ਟੈਕ. (ਇਲੈਕਟ੍ਰੀਕਲ ਇੰਜੀ) ਵਿੱਚ ਮਾਈਨਰ ਡਿਗਰੀ ਕਰ ਰਹੇ ਹਨ **list of MOOCs courses for the session January – June 2021** ਇਸ ਪੱਤਰ ਨਾਲ ਨੱਥੀ ਕਰਕੇ ਭੇਜੀ ਜਾਂਦੀ ਹੈ। ਇਹ ਸੂਚੀ ਆਪਣੀ ਸੰਸਥਾ ਦੇ ਨੋਟਿਸ ਬੋਰਡ ਤੇ ਚਿਸਪਾਨ ਕਰਨ ਤੋਂ ਇਲਾਵਾ ਸਬੰਧਤਾਂ ਤੱਕ ਪੁੱਜਦੀ ਯਕੀਨੀ ਬਣਾਈ ਜਾਵੇ ਜੀ। ਇਹ ਆਪ ਜੀ ਦੀ ਸੂਚਨਾ ਅਤੇ ਰਿਕਾਰਡ ਹਿੱਤ ਹੈ ਜੀ।

ਨੱਥੀ : ਉਕਤ ਅਨੁਸਾਰ।

E. Johal
11/02/2021

(ਡਾ. ਏਕਉਂਕਾਰ ਸਿੰਘ)
ਡਿਪਟੀ ਰਜਿਸਟਰਾਰ

ਨੰਬਰ/ਆਈ.ਕੇ.ਜੀ.ਪੀ.ਟੀ.ਯੂ./ਡੀ.ਅ./ਓ.ਆਈ./

ਮਿਤੀ/

ਇਸ ਦਾ ਇੱਕ ਉਤਾਰਾ : (ਰਾਹੀਂ : ਈ.ਆਫਿਸ ਅਤੇ ਈ.ਮੇਲ)

1. ਇੰਚਾਰਜ ਸਕੱਤਰੇਤ ਉਪ ਕੁਲਪਤੀ ਜੀ ਨੂੰ ਸੂਚਨਾ ਹਿੱਤ।
2. ਡੀਨ (ਅਕਾਦਮਿਕ) ਜੀ ਨੂੰ ਸੂਚਨਾ ਹਿੱਤ।
3. ਡਾਇਰੈਕਟਰ (ਮੇਨ ਕੈਂਪਸ), ਆਈ.ਕੇ.ਜੀ.ਪੀ.ਟੀ.ਯੂ. ਜੀ ਨੂੰ ਸੂਚਨਾ ਹਿੱਤ।
4. ਕੰਟਰੋਲਰ ਪ੍ਰੀਖਿਆਵਾਂ, ਪ੍ਰੀਖਿਆਵਾਂ ਵਿਭਾਗ, ਆਈ.ਕੇ.ਜੀ.ਪੀ.ਟੀ.ਯੂ. ਨੂੰ ਲੋੜੀਂਦੀ ਕਾਰਵਾਈ ਅਤੇ ਰਿਕਾਰਡ ਹਿੱਤ।
5. ਇੰਚਾਰਜ, ਆਈ.ਟੀ.ਐਸ., ਵਿਭਾਗ ਨੂੰ ਯੂਨੀਵਰਸਿਟੀ ਦੀ ਵੈਬਸਾਈਟ ਉਪਰ ਅਪਲੋਡ ਕਰਨ ਹਿੱਤ।
6. ਡਾ. ਨਵੀਨ ਕੁਮਾਰ, ਕੋਆਰਡੀਨੇਟਰ ਬੋਰਡ ਆਫ ਸਟੱਡੀ ਇਲੈਕਟ੍ਰੀਕਲ ਇੰਜੀ (2019-2021) ਆਈ.ਕੇ.ਜੀ.ਪੀ.ਟੀ.ਯੂ. ਨੂੰ ਸੂਚਨਾ ਅਤੇ ਲੋੜੀਂਦੀ ਕਾਰਵਾਈ ਹਿੱਤ।
7. ਸ੍ਰੀ ਹਰਪਾਲ ਸਿੰਘ, ਸੀਨੀਅਰ ਸਹਾਇਕ, ਅਕਾਦਮਿਕ ਵਿਭਾਗ ਨੂੰ ਸੂਚਨਾ ਅਤੇ ਰਿਕਾਰਡ ਹਿੱਤ।

E. Johal
11/02/2021

(ਡਾ. ਏਕਉਂਕਾਰ ਸਿੰਘ)
ਡਿਪਟੀ ਰਜਿਸਟਰਾਰ



On-line SWAYAM /MOOCs courses (January-May 2021) for Minor Degree/Honors Degree (Subject to changes made by host Institute/Swayam portal)		
1	Course	Signals and Systems In this course, the explanation will be in Hindi, but the scientific terms, assignments and exams will be in English.
	Course for	Minor Degree
	Semester	4th
	Prerequisites	Mathematics at 10+2 level
	Type	Core
	Duration	12 weeks
	Enrollment ends	25th January 2021
	Start date	18th January 2021
	End Date	9th April 2021
	Exam Date	25th April 2021
	Level	Undergraduate
	Link	https://onlinecourses.swayam2.ac.in/nou21_ee01/preview
2	Course	Electricity & Safety Measures
	Course for	Minor Degree
	Semester	4th
	Prerequisites	As per website
	Type	Elective/Core
	Duration	12 weeks
	Enrollment ends	As per website
	Start date	31st January 2021
	End Date	As per website
	Exam Date	As per website
	Level	Undergraduate
	Link	https://onlinecourses.swayam2.ac.in/nou21_ee01/preview
3	Course	Electrical Machines
	Course for	Minor Degree
	Semester	4th
	Prerequisites	Basic Electrical Engineering, Circuit theory
	Type	Elective
	Duration	12 weeks
	Enrollment ends	25th January 2021
	Start date	18th January 2021
	End Date	9th April 2021
	Exam Date	25th April 2021
	Level	Undergraduate
	Link	https://onlinecourses.nptel.ac.in/noc21_ee24/preview
4	Course	Electrical Machines-II
	Course for	Minor Degree
	Semester	4th
	Prerequisites	Basic Electrical Technology: Circuit analysis, principle of working of transformer and its equivalent circuit representation.
	Type	Elective



	Duration	12 weeks
	Enrollment ends	25th January 2021
	Start date	18th January 2021
	End Date	9th April 2021
	Exam Date	25th April 2021
	Level	Undergraduate
	Link	https://onlinecourses.nptel.ac.in/noc21_ee13/preview
5	Course	Basic Electronics
	Course for	Minor Degree
	Semester	4 th
	Prerequisites	A basic course in electrical engineering (KCL, KVL, network theorems, AC analysis)
	Type	Core
	Duration	12 weeks
	Enrollment ends	25th January 2021
	Start date	18th January 2021
	End Date	9th April 2021
	Exam Date	25th April 2021
	Level	Undergraduate
	Link	https://onlinecourses.nptel.ac.in/noc21_ee55/preview
6	Course	Control Engineering
	Course for	Minor Degree
	Semester	4 th
	Prerequisites	Network and Circuits, Basic Engineering Mathematics. we suggest the NPTEL course on Networks and Systems by Dr.V.G.K.Murti. Content in Lectures 1 -6 and 20-29 will be relevant for this course.
	Type	Core
	Duration	12 weeks
	Enrollment ends	25th January 2021
	Start date	18th January 2021
	End Date	9th April 2021
	Exam Date	25th April 2021
	Level	Undergraduate
	Link	https://onlinecourses.nptel.ac.in/noc21_ee05/preview
7	Course	Digital Electronic Circuits
	Course for	Minor Degree
	Semester	4th
	Prerequisites	Basic understanding of diode, transistor operation. If this is not covered in 10+2 Board of the students then the same may be studied from Basic Electronics or Analog Electronic Circuits course.
	Type	Core
	Duration	12 weeks
	Enrollment ends	25th January 2021
	Start date	18th January 2021
	End Date	9th April 2021
	Exam Date	25th April 2021



On-line SWAYAM /MOOCs courses (January-May 2021)
Minor Degree/Honors Degree in Electrical Engineering/Electrical & Electronics Engineering/
Electronics & Electrical Engineering

8	Level	Undergraduate
	Link	https://onlinecourses.nptel.ac.in/noc21_ee10/preview
	Course	Fuzzy Sets, Logic and Systems & Applications
	Course for	Minor Degree
	Semester	4th/6th
	Prerequisites	Nil
	Type	Core
	Duration	12 weeks
	Enrollment ends	25th January 2021
	Start date	18th January 2021
	End Date	9th April 2021
	Exam Date	25th April 2021
	Level	Undergraduate
	Link	https://onlinecourses.nptel.ac.in/noc21_ee49/preview
9	Course	Fundamentals of Power Electronics
	Course for	Minor Degree
	Semester	4th/6th
	Prerequisites	Electrical and electronic circuits, network theory and basics of semiconductor physics.
	Type	Core
	Duration	12 weeks
	Enrollment ends	25th January 2021
	Start date	18th January 2021
	End Date	9th April 2021
	Exam Date	25th April 2021
	Level	Undergraduate
	Link	https://onlinecourses.nptel.ac.in/noc21_ee01/preview
	Course	Digital IC Design
	Course for	Minor Degree
10	Semester	6th
	Prerequisites	A course on digital logic design is a must for doing this course.
	Type	Elective
	Duration	12 weeks
	Enrollment ends	25th January 2021
	Start date	18th January 2021
	End Date	9th April 2021
	Exam Date	25th April 2021
	Level	Undergraduate
	Link	https://onlinecourses.nptel.ac.in/noc21_ee22/preview
	Course	Transmission lines and electromagnetic waves
	Course for	Honors Degree
	Semester	6th/8th
	Prerequisites	Nil
11	Type	Core
	Duration	12 weeks
	Enrollment ends	25th January 2021



On-line SWAYAM /MOOCs courses (January-May 2021)
Minor Degree/Honors Degree in Electrical Engineering/Electrical & Electronics Engineering/
Electronics & Electrical Engineering

	Start date	18th January 2021
	End Date	9th April 2021
	Exam Date	25th April 2021
	Level	Postgraduate
	Link	https://onlinecourses.nptel.ac.in/noc21_ee53/preview
12	Course	Applied Linear Algebra
	Course for	Honors Degree
	Semester	6th/8th
	Prerequisites	Basic Calculus, should have done a basic (or a first) course in Linear Algebra
	Type	Core
	Duration	12 weeks
	Enrollment ends	25th January 2021
	Start date	18th January 2021
	End Date	9th April 2021
	Exam Date	25th April 2021
13	Level	Undergraduate/Postgraduate
	Link	https://onlinecourses.nptel.ac.in/noc21_ee38/preview
	Course	Fundamentals of semiconductor devices
	Course for	Minor Degree
	Semester	4th
	Prerequisites	High school physics & math, 10+2 physics
	Type	Core
	Duration	12 weeks
	Enrollment ends	01 st February 2021
	Start date	18th January 2021
14	End Date	9th April 2021
	Exam Date	25th April 2021
	Level	Undergraduate/Postgraduate
	Link	https://onlinecourses.nptel.ac.in/noc21_ee19/preview
	Course	Robotics and Control : Theory and Practice
	Course for	Minor Degree/honors degree
	Semester	4th/6th
	Prerequisites	Basic Mathematics
	Type	Elective
	Duration	8 weeks
15	Enrollment ends	01st February 2021
	Start date	18th January 2021
	End Date	12th March 2021
	Exam Date	21st March 2021
	Level	Undergraduate/Postgraduate
	Link	https://onlinecourses.nptel.ac.in/noc21_me49/preview
	Course	Artificial Intelligence
	Course for	Minor Degree/honors degree
	Semester	4th/6th
	Prerequisites	Basic Mathematics
	Type	Core



On-line SWAYAM /MOOCs courses (January-May 2021)
Minor Degree/Honors Degree in Electrical Engineering/Electrical & Electronics Engineering/
Electronics & Electrical Engineering

16	Duration	15 weeks
	Enrollment ends	01st February 2021
	Start date	07th January 2021
	End Date	30 th April 2021
	Exam Date	08 th May 2021
	Level	Postgraduate
	Link	https://onlinecourses.swayam2.ac.in/cec21_cs08/preview
	Course	Introduction to Embedded System Design
	Course for	Minor Degree/honors degree
	Semester	6th
	Prerequisites	Anyone with understanding of basic electronic components and circuits, digital electronics and C programming.
	Type	Core
	Duration	12 weeks
	Enrollment ends	01st February 2021
	Start date	18th January 2021
	End Date	9th April 2021
	Exam Date	25th April 2021
	Level	Undergraduate/Postgraduate
	Link	https://onlinecourses.nptel.ac.in/noc21_ee58/preview