



G.Pullaiah College of Engineering and Technology

(Autonomous)

(Approved by AICTE, New Delhi | NAAC Accreditation with 'A' Grade |

Accredited by NBA (CSE, ECE & EEE) | Affiliated to JNTUA)

Nandikotkur Road, Venkayapalli (V), Kurnool - 518452, Andhra Pradesh

DATE: 02-07-2018

To

The Principal,
GPCET,
Kurnool.

Sir,

Sub: Approval of ADD-ON course for II ME, III ME Students-Regd

The department of ME requests you to accept the proposal for conducting ADD-ON Course on "**Acoustic Materials and Metamaterials**" for the odd semester of II & III year ME students scheduled for the duration of 42 hours. Kindly accept the proposal.

Thanking you sir,

Yours Sincerely

HOD-ME

PRINCIPAL

G.Pullaiah College of Engg & Tech.
Nandikotkur Road, VENKAYAPALLI
KURNOOL-518 452 (A.P)



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Nandikotkur Road, Venkayapalli (V), Kurnool - 518452, Andhra Pradesh

Department Circular –ADD-ON Course

DATE: 03-07-2018

The Ilyear & III year ME Students are informed to enroll their names for ADD-ON Course on “**Acoustic Materials and Metamaterials**” with their respective class-in-charges on or before 07-09-2018. The course commences from 9th July and the duration of the course is for 42 hours. The course is conducted from 4 pm to 5 pm regularly.

Bus facility is made available soon after the class work.

HOD-ME



**G. PULLAIAH COLLEGE OF
ENGINEERING AND TECHNOLOGY
(AUTONOMOUS)**

Department Of Mechanical Engineering

ADD ON COURSE

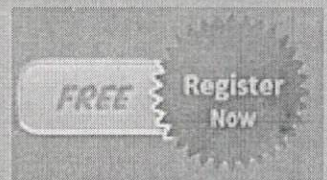


Topic : Acoustic Materials and Metamaterials

Target audience : II and III Year Students

Total Course Duration: 42 hrs

**Selection Procedure : Registration on First
come First serve basis**



Date of commencement of the course : 09 July , 2018.

End of Course : 01 Nov, 2018.

Exam Date: 08 Nov,2018.

P. V. S.

**SYLLABUS FOR ADD-ON COURSE ON ACOUSTIC MATERIALS AND
METAMATERIALS**

DAY	TOPICS
1	Acoustic fundamentals
2	Theory and design principles of acoustic barrier materials
3	Theory and design principles of sound absorbing materials
4	Limitations of conventional materials
5	Principles of acoustic metamaterials
6	Theory and design principles of membrane type metamaterials
7	Theory and design principles of sonic crystals
8	Guidelines for selecting acoustic materials
9	Porous sound absorbers
10	Panel absorbers
11	Helmholtz resonators
12	Perforated panel absorbers
13	Micro-perforated panel absorbers
14	Limitations of conventional acoustic materials
15	Membrane type acoustic metamaterials

P. V. Ram



G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY: KURNOOL (Autonomous)

Department of Mechanical Engineering

**The following is the list of the students who have attended Add on Course on “Acoustic Materials
And Metamaterials”**

17th Batch Students

S.No	ROLL NO	Name of the Candidate
1	17AT1A0301	SYED AALE RASOOL
2	17AT1A0302	SHAIK AFZAL AHMMED
3	17AT1A0303	KATIKA ALLAH BAKASH
4	17AT1A0304	PAGADAM ANANDA SWAROOP KUMAR
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32	17AT1A0333	SHAIK RAHAMAN

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34	17AT1A0335	GURRAM REVANTH
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13	16AT1A0315	SHAIK MOHAMMAD ABBAS
14	16AT1A0316	OBALÉ MOHAMMAD HASHAM
15	16AT1A0317	B MOHAMMAD RAFI
16	16AT1A0318	SHAIK MOHAMMED SAMEEM SAQLAIN
17	16AT1A0319	KOLIMI MUZAMMIL AHMED
18	16AT1A0320	G NAGARJUNA REDDY
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41	16AT1A0344	KASIREDDY USHARANI
42	16AT1A0345	SREE BAREED VAMSHI KRISHNA
43	16AT1A0347	MANDA VENUGOPAL
44	16AT1A0348	VADLA VIHARI ACHARI
45	16AT1A0349	KURNI VIJAY

Ramesh

46	16AT1A0350	K VISWANATH REDDY
47	16AT1A0351	K YESHWANTH NAIDU
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61	17AT5A0314	SHAIK SHAIKSHAVALI
62	17AT5A0315	SAYYED MURTHUJAVALI

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G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOG
DEPARTMENT OF MECHANICAL ENGINEERING
ADDON COURSE SCHEDULE

Date: 09/07/2018

II & III YEAR – I Semester		
Course	Faculty	Duration
Acoustic fundamentals	Dr.K.MALLIKARJUNA	2 hours
Theory and design principles of acoustic barrier materials	Dr.K.MALLIKARJUNA	2 hours
Theory and design principles of sound absorbing materials	Dr.K.MALLIKARJUNA	2 hours
Limitations of conventional materials	DR.S.VENKATESHWALU	2 hours
Principles of acoustic metamaterials	DR.S.VENKATESHWALU	1 hours
Theory and design principles of membrane type metamaterials	DR.S.VENKATESHWALU	1 hours
Theory and design principles of sonic crystals	N.GOVINDA RAO	2 hours
Guidelines for selecting acoustic materials	N.GOVINDA RAO	2 hours
Porous sound absorbers	N.GOVINDA RAO	1 hours
Panel absorbers	S. JAVEED	2 hours
Helmholtz resonators	S. JAVEED	2 hours
Perforated panel absorbers	S. JAVEED	2 hours
Micro-perforated panel absorbers	K.NIRMALA	2 hours
Limitations of conventional acoustic materials	K.NIRMALA	1 hours
Membrane type acoustic metamaterials	B.SRILAXMI	3 hours

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G. PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY (AUTONOMOUS)

II, III & IV B. Tech I SEM Objective Paper – Assessment

Branch: MECHANICAL ENGINEERING

Sub: Acoustic Materials and Metamaterials

Date: 08/11/2018

Time: 30 min

Max.Marks:25

Roll No:

Invigilator signature:

I.MULTIPLE CHOICE QUESTIONS

1. Which of the following is NOT a common acoustic material? []
a) Foam b) Steel c) Rubber d) Copper
2. Sound absorbers are designed to: []
a) Reflect sound waves b) Absorb sound energy c) Amplify waves d) Scatter sound waves
3. Barrier materials are primarily used for: []
a) Amplifying sound b) Reducing vibration c) Blocking sound transmission d) Enhancing sound clarity
4. Metamaterials are engineered to have properties: []
a) Similar to natural materials b) Found only in naturally occurring substances c) Beyond those found in naturally occurring substances d) Limited to optical properties
5. Negative refraction in metamaterials refers to: []
a) Sound waves traveling in the opposite direction to the source b) Sound waves traveling faster than light c) Sound waves bending in the opposite direction to normal refraction d) Sound waves having negative frequencies
6. Subwavelength imaging using metamaterials allows for: []
a) Lower resolution imaging b) Imaging beyond the diffraction limit c) Limited imaging capabilities d) Imaging only at specific frequencies
7. Acoustic cloaking with metamaterials involves: []
a) Making objects invisible to sound detection b) Amplifying sound around an object c) Blocking sound waves completely d) Reflecting sound waves off an object
8. Acoustic band gap materials prevent the propagation of: []
a) All frequencies of sound waves b) Only high-frequency sound waves c) Only low-frequency sound waves d) Certain frequencies of sound waves
9. Porous materials like foam are commonly used as: []
a) Sound reflectors b) Sound absorbers c) Sound amplifiers d) Sound scatterers
10. What is the primary function of vibration dampening materials? []

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a) Absorbing light b) Reducing vibration transmission c) Enhancing vibration d) Reflecting sound waves

11. Which material is commonly used for creating soundproof barriers in buildings? []

a) Wood b) Plastic c) Concrete d) Aluminum

12. Which property of metamaterials allows for the manipulation of sound waves at a subwavelength scale? []

a) Negative mass b) Negative refraction c) Negative density d) Negative energy

13. What is the main purpose of resonant absorbers? []

a) Amplifying sound waves b) Reflecting sound waves c) Absorbing sound waves at specific frequencies d) Blocking sound waves entirely

14. Which of the following materials is NOT commonly used for sound absorption? []

a) Fiberglass b) Concrete c) Fabric panels d) Mineral wool

15. Metamaterials can manipulate sound waves to create which effect? []

a) Amplification b) Diffracted scattering c) Acoustic cloaking d) Increased reverberation

16. What is the primary function of barrier materials in acoustic applications? []

a) Absorption of sound waves b) Amplification of sound waves c) Reflection of sound waves d) Blocking of sound wave transmission

17. What is the key characteristic of metamaterials? []

a) They are naturally occurring b) They have properties beyond naturally occurring materials c) They are less durable than conventional materials d) They are limited to optical applications

18. Acoustic band gap materials create regions where: []

a) Sound waves are amplified b) Sound waves are blocked c) Sound waves travel faster d) Sound waves are reflected

19. Which material is commonly used for creating barriers to block transmission? []

a) Rubber b) Lead c) Aluminum d) Glass

20. What is the primary function of resonant absorbers? []

a) Amplifying sound waves b) Reflecting sound waves c) Absorbing sound waves at specific frequencies d) Blocking sound waves entirely

21. What is the primary function of vibration dampening materials? []

a) Absorbing light b) Reducing vibration transmission c) Enhancing vibration d) Reflecting sound waves

22. Which material is commonly used for creating soundproof barriers in buildings? []

a) Wood b) Plastic c) Concrete d) Aluminum

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23. Which property of metamaterials allows for the manipulation of sound waves at a subwavelength scale? []

- a) Negative mass b) Negative refraction c) Negative density d) Negative energy

24. What is the main purpose of resonant absorbers? []

- a) Amplifying sound waves b) Reflecting sound waves c) Absorbing sound waves at specific frequencies d) Blocking sound waves entirely

25. Which property of metamaterials allows for negative refraction of sound waves? []

- a) Negative density b) Negative energy c) Negative mass d) Negative index of refraction

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G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY: KURNOOL (Autonomous)
Department of Mechanical Engineering
Evaluation sheet Add-on Course on Add on Course on “Acoustic Materials And Metamaterials”

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