



RAAK

COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to Pondicherry University)

From

01/08/2018

Mrs.L.Rogini Devi
Assistant Professor /S&H
RAAK College of Engineering and Technology
Puducherry -110

To

The Principal
RAAK College of Engineering and Technology
Puducherry -110

Respected sir,

Sub: Requisition for Approval to Conduct Skill Development program / Value added Course on
"18SH01- Teaching of English Language and Literature"- reg.

This is to bring to your kind notice that the Skill Development Team is planning to conduct a Program on
"18SH01- Teaching of English Language and Literature" for all the first Year students of Science &
Humanities from 09-08-2018 to 13-08-2018.

The main focus of this program is to provide a better exposure to our students on the Teaching of
English Language and Literature for practical applications.

The syllabus and course plan structured are not listed in the Pondicherry University Curriculum and
the same have been verified and approved by the Principal/HoD/Professors and Skill development team.

Hence, I kindly request you to approve event planned. The details and the necessary proofs are
attached with this letter.

Thanking you,

Yours
L. Rogini Devi
Mrs.L.Rogini Devi

AP/S&H



S. Seenuvasamurthi
Dr. S. SEENUVASAMURTHI, M.E., Ph.D.
PRINCIPAL
RAAK College of Engineering & Technology
No.1, Muthupillai Palayam Road,
Sulthanpet Post,
Puducherry - 605 110



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RAAKCET/PRINCIPAL/CIR/AUG2018

02/08/2018

CIRCULAR

This is to inform that the Skill Development Team is planning to conduct a value added course on "18SH01- Teaching of English Language and Literature" for all the first year students of science & humanities, from 09-08-2018 to 13-08-2018. Students are asked to utilize this opportunity and improve their skills.

PRINCIPAL

Circulation to:

1. All Students
2. All Faculty & Staff Members
3. All HoDs

Copy to:

1. All HoDs
2. Office



Dr. S. SEENUVASAMURTHI, M.E., Ph.C.
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NO:1, MUTHUPILLAI PALAYAM ROAD, G.N. PALAYAM, VILLIYANUR, PUDUCHERRY - 605 110

**DEPARTMENT OF SCIENCE AND HUMANITIES
PRESENTS
VALUE ADDED COURSE ON
TEACHING OF ENGLISH LANGUAGE AND LITERATURE**

2018-2019

DATE: 09/08/2018 to 14/08/2018

VENUE: RAAKCET

TIME: 09 am to 04 pm

Resource Person:

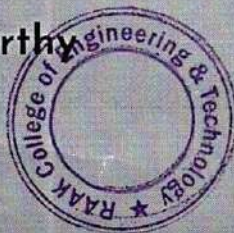
**Mr. Ravisrinivas
Assistant Professor,
IFET Engineering college.**

For Registration Contact:

**Mr. V. Vasath, AP/ S & H,
9648542218.**

HOD

Mr. P. Radja Sacravarthy



PRINCIPAL

Dr. A. Sivakumar

**Dr. S. SEENUVASAMURTHI, M.E., Ph.D.
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VALUE ADDED COURSES

2018-2019

Department of Science & Humanities.

18SH01- Teaching of English Language and Literature

Syllabus

Duration: 36 hours

Course Objective:

- The course enables the learners
- To develop their reading, writing, speaking, listening and critical thinking skills through English Language Teaching methods, techniques, strategies and literary texts.
- To improve the creative competence and effective interaction in English.
- To comprehend the competence over the contextual usage of words and diction.

Course Outcomes:

CO1: Identify literary techniques and creative uses of language in literary texts.

CO2: Adapt their texts to particular audiences and purposes

CO3: Articulate a thesis and present evidence to support it

CO4: Find, evaluate, and use appropriate bibliographic materials in their texts

Module 1: English Language Teaching

(9 Hours)

The English Language Teaching in India 20th Century Approaches, Methods, Techniques and Strategies in ELT

Module 2: Classroom Management Problems

(9 Hours)

Classroom Management Problems in Classroom - Physical, linguistics, psychological and socio-economic problems, large classes, slow learners Teaching & Learning Strategies – Flipped & Blended Classrooms Role of Teacher, Students & Materials. 61 Annexure 4a The Teaching of Language Skills and 21st Century Skills

Module 3: Language Games

(9 Hours)

Language Games- Quiz, Learning App, language tasks, Group-work, Pairwork and individual work. Lesson Planning and Classroom Observation Language Testing and Assessment Continuous Assessment Final Assessment Modern Assessment Techniques(Quiz, Rubrics,PTTE) .

Module 4: Testing

(9 Hours)

Testing of LSRW Skills, Role of English in day-to-day life, objectives of teaching English, Techniques of teaching English



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Module 5: Curriculum and Syllabus Design

(9 Hours)

Curriculum and Syllabus Design – Teaching prose, poetry and drama Types of Syllabuses- Traditional, structural, situational, notional- functional, procedural, and communicative syllabuses Lesson Plan

L. Raveend.
Course designed by

P. Raveend.
Approved by

SS
Principal



SS
Dr. S. SEENUVASAMURTHI, M.E., Ph.D.

PRINCIPAL

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CO - ATTAINMENT MAPPING

| Sl. No | Register Number | Student Name | CO1 | CO2 | CO3 | CO4 |
|--------|-----------------|------------------|-----|-----|-----|-----|
| 1. | 18TD1401 | ADARSH S | ✓ | ✓ | ✓ | ✓ |
| 2. | 18TD1402 | ANITHA I | ✓ | ✓ | ✓ | ✓ |
| 3. | 18TD1403 | ANITHA R | ✓ | ✓ | ✓ | ✓ |
| 4. | 18TD1404 | ARTHI K | ✓ | ✓ | ✓ | ✓ |
| 5. | 18TD1405 | DEEPA S | ✓ | ✓ | ✓ | ✓ |
| 6. | 18TD1406 | FAVAZ AHAMED M | ✓ | ✓ | ✓ | ✓ |
| 7. | 18TD1407 | GNANADISHALI P | ✓ | ✓ | ✓ | ✓ |
| 8. | 18TD1408 | GOPINATH N | ✓ | ✓ | ✓ | ✓ |
| 9. | 18TD1409 | GUNAPRIYA M | ✓ | ✓ | ✓ | ✓ |
| 10. | 18TD1410 | IMMANUEL PAUL S | ✓ | ✓ | ✓ | ✓ |
| 11. | 18TD1411 | KEERTHIGA K | ✓ | ✓ | ✓ | ✓ |
| 12. | 18TD1412 | KOWSALYA M | ✓ | ✓ | ✓ | ✓ |
| 13. | 18TD1413 | MADHAVAKUMARAN P | ✓ | ✓ | ✓ | ✓ |
| 14. | 18TD1414 | MADHUBALA R | ✓ | ✓ | ✓ | ✓ |
| 15. | 18TD1415 | MANIKANDAN P | ✓ | ✓ | ✓ | ✓ |
| 16. | 18TD1416 | MEHARIN BEGAM M | ✓ | ✓ | ✓ | ✓ |



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| | | | | | | |
|-----|----------|---------------------|---|---|---|---|
| 17. | 18TD1417 | PAVITHRA K | ✓ | ✓ | ✓ | ✓ |
| 18. | 18TD1418 | PREETHA R | ✓ | ✓ | ✓ | ✓ |
| 19. | 18TD1419 | PREMKUMAR M | ✓ | ✓ | ✓ | ✓ |
| 20. | 18TD1420 | PRIYADARSHANI P | ✓ | ✓ | ✓ | ✓ |
| 21. | 18TD1421 | PUSHPA R | ✓ | ✓ | ✓ | ✓ |
| 22. | 18TD1422 | RIFATHALMAS S | ✓ | ✓ | ✓ | ✓ |
| 23. | 18TD1423 | SANDHIYA E | ✓ | ✓ | ✓ | ✓ |
| 24. | 18TD1424 | SENBAGAM B | ✓ | ✓ | ✓ | ✓ |
| 25. | 18TD1425 | SHANTHINI A | ✓ | ✓ | ✓ | ✓ |
| 26. | 18TD1426 | SIVASAKTHI C | ✓ | ✓ | ✓ | ✓ |
| 27. | 18TD1427 | SOORIYA MOORTHY G B | ✓ | ✓ | ✓ | ✓ |
| 28. | 18TD1428 | SUGANYA P | ✓ | ✓ | ✓ | ✓ |
| 29. | 18TD1429 | SUGUMARAN M | ✓ | ✓ | ✓ | ✓ |
| 30. | 18TD1430 | SUMITHRA S | ✓ | ✓ | ✓ | ✓ |
| 31. | 18TD1431 | SUNITHA C | ✓ | ✓ | ✓ | ✓ |
| 32. | 18TD1432 | VIJAY V | ✓ | ✓ | ✓ | ✓ |
| 33. | 18TD1433 | VINODHINI M | ✓ | ✓ | ✓ | ✓ |
| 34. | 18TC1201 | ABITHA V | ✓ | ✓ | ✓ | ✓ |
| 35. | 18TC1202 | AGALYA B | ✓ | ✓ | ✓ | ✓ |



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| | | | | | | |
|-----|----------|----------------|---|---|---|---|
| 36. | 18TC1203 | ANITHA N | ✓ | ✓ | ✓ | ✓ |
| 37. | 18TC1204 | FOUSIA BEGAM Y | ✓ | ✓ | ✓ | ✓ |
| 38. | 18TC1205 | JOTHILAKSHMI A | ✓ | ✓ | ✓ | ✓ |
| 39. | 18TC1206 | KAMARUNISHA H | ✓ | ✓ | ✓ | ✓ |
| 40. | 18TC1207 | KAVITHA U | ✓ | ✓ | ✓ | ✓ |
| 41. | 18TC1208 | MATHIYARASI S | ✓ | ✓ | ✓ | ✓ |
| 42. | 18TC1209 | NASIRA BANU M | ✓ | ✓ | ✓ | ✓ |
| 43. | 18TC1210 | PAVITHRA S | ✓ | ✓ | ✓ | ✓ |
| 44. | 18TC1211 | PRIYADARSINI D | ✓ | ✓ | ✓ | ✓ |
| 45. | 18TC1212 | RAJALAKSHMI M | ✓ | ✓ | ✓ | ✓ |
| 46. | 18TC1213 | RAJESWARI P | ✓ | ✓ | ✓ | ✓ |
| 47. | 18TC1214 | SANGARI A | ✓ | ✓ | ✓ | ✓ |
| 48. | 18TC1215 | SANGEETHA K | ✓ | ✓ | ✓ | ✓ |
| 49. | 18TC1216 | SUVEDHA V | ✓ | ✓ | ✓ | ✓ |
| 50. | 18TC1217 | VASHUMATHY S | ✓ | ✓ | ✓ | ✓ |
| 51. | 18TC1218 | VISHNUPRIYA S | ✓ | ✓ | ✓ | ✓ |
| 52. | 18TE0851 | JAYASREE J | ✓ | ✓ | ✓ | ✓ |
| 53. | 18TE0852 | MAHALAKSHMI M | ✓ | ✓ | ✓ | ✓ |



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VALUE ADDED COURSES

2018-2019

Department of Science & Humanities.

18SH01- Teaching of English Language and Literature

COURSE PLAN

| S.no | Date | Hours | Time | Topic | Faculty details |
|--------|----------|-------|--------------------|---|---|
| DAY -1 | | | | | |
| 1 | 09.08.18 | 1,2 | 9 AM -11 AM | The English Language Teaching in India 20th Century Approaches | Mr.Saravanane virumouttou & Mr.Ravisrinivas |
| 2 | | 3,4 | 11.15 AM – 1.15 PM | Methods, Techniques | Mr.Saravanane virumouttou |
| 3 | | 5,6 | 2 PM -4 PM | Strategies in ELT | Mr.Ravisrinivas |
| DAY 2 | | | | | |
| 4 | 10.08.18 | 7,8 | 9 AM -11 AM | Classroom Management Problems in Classroom - Physical, linguistics, psychological and socio-economic problems, large classes, | Mr.Saravanane virumouttou |
| 5 | | 9,10, | 11.15 AM – 1.15 PM | slow learners Teaching & Learning Strategies – Flipped & Blended Classrooms Role of Teacher, | Mr.Ravisrinivas |
| 6 | | 11,12 | 2 PM -4 PM | Students & Materials. 61 Annexure 4a The Teaching of Language Skills and 21st Century Skills | Mr.Saravanane virumouttou |
| DAY -3 | | | | | |
| 7 | 11.08.18 | 13,14 | 9 AM -11 AM | Language Games- Quiz, Learning App, language tasks, Group-work, Pairwork | Mr.Ravisrinivas |
| 8 | | 15,16 | 11.15AM – 1.15 PM | individual work. Lesson Planning and Classroom Observation Language Testing and Assessment | Mr.Saravanane virumouttou |



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| | | | | | | |
|---|----------|-------|-------------------|---|-----------------|------------------------------|
| 9 | | 17,18 | 2 PM -4 PM | Continuous Assessment Assessment Assessment Techniques(Quiz, Rubrics,PTTE). | Final Modern | Mr.Ravisrinivas |
| DAY -4 | | | | | | |
| 10 | 12.08.18 | 19,20 | 9AM -11AM | Testing of LSRW Skills | | Mr.Saravanane virumouttou |
| 11 | | 21,22 | 11.15AM – 1.15 PM | Role of English in day- to-day life | | Mr.Ravisrinivas |
| 12 | | 23,24 | 2 PM -4 PM | objectives of teaching English, Techniques of teaching English | | Mr.Saravanane virumouttou |
| DAY -5 | | | | | | |
| 13 | 13.08.18 | 25,26 | 9AM -11AM | Curriculum and Syllabus Design – Teaching prose, poetry and drama Types of Syllabuses | | Mr.Ravisrinivas |
| 14 | | 27,28 | 11.15AM – 1.15 PM | Traditional, structural, situational, notional- functional | | Mr.Saravanane virumouttou |
| 15 | | 29,30 | 2 PM -4 PM | procedural, and communicative syllabuses Lesson Plan | | Mr.Ravisrinivas |
| ***ASESSMENT EXAM WILL BE CONDUCTED AFTER ONE WEEK OF COURSE COMPLETION *** | | | | | | |

BREAK TIME: 11.00 TO 11.15 AM

LUNCH BREAK: 1.15 PM TO 2.00 PM

L. Rogini Devi
COURSE DESIGNED BY
Mrs.ROGINI DEVI

D. Raju Saurthy
APPROVED BY
SKILL DEVELOPMENT TEAM

SSS
PRINCIPAL



Dr. S. Seenuvasamurthi
Dr. S. SEENUVASAMURTHI, M.E., Ph.D.
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VALUE ADDED COURSES

2018-2019

Department of Science & Humanities.

EVENT REPORT

Name of the Course: 18SH01- Teaching of English Language and Literature

Name of the Instructors: Mr. Saravanane virumouttou & Mr.Ravisrinivas

Year/ Branch: I/ S&H

Duration of Course: 36 Hours (09-08-2018 to 14-08-2018)

Assessment Date: 20.08.2018

Post Event Summary:

The course was inaugurated on 09-08-2018 at 9.30 A.M. by our respectable principal and sessions were continued as per the schedule. Students were enriched their knowledge by attending the course. Finally, the course concluded by vote of thanks.

On 20.08.2018 assessment was conducted and feedbacks were collected from all the participants.

CO - Attainment:

CO1: Identify literary techniques and creative uses of language in literary texts.

CO2: Adapt their texts to particular audiences and purposes

CO3: Articulate a thesis and present evidence to support it

CO4: Find, evaluate, and use appropriate bibliographic materials in their texts



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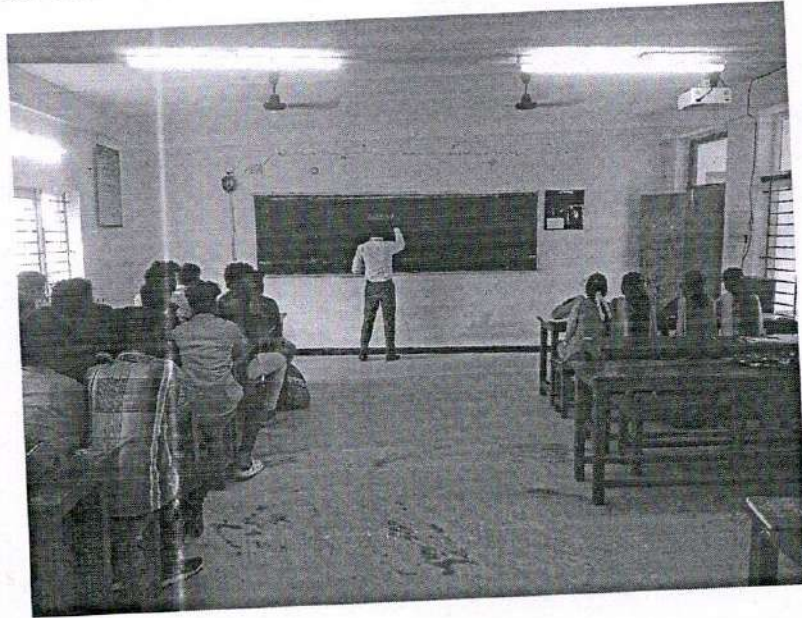


RAAK

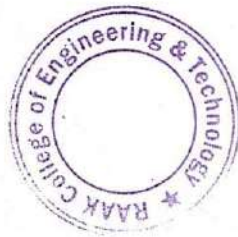
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Value Added Course on Teaching of English Language and Literature 2018-19



slow learners Teaching & Learning Strategies on 10.08.18




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From

01/08/2018

Mrs.L.Rogini Devi
Assistant Professor /S&H
RAAK College of Engineering and Technology
Puducherry -110

To

The Principal
RAAK College of Engineering and Technology
Puducherry -110

Respected sir,

Sub: Requisition for Approval to Conduct Skill Development program / Value added Course on
"18SH02- Nuclear and Particle Physics"- reg.

This is to bring to your kind notice that the Skill Development Team is planning to conduct a Program on
"18SH02- Nuclear and Particle Physics"- for all the first Year students of Science & Humanities from 09-
08-2018 to 13-08-2018.

The main focus of this program is to provide a better exposure to our students on the Nuclear and
Particle Physics for practical applications.

The syllabus and course plan structured are not listed in the Pondicherry University Curriculum and
the same have been verified and approved by the Principal/HoD/Professors and Skill development team.

Hence, I kindly request you to approve event planned. The details and the necessary proofs are
attached with this letter.

Thanking you,

Yours
L. Rogini Devi
Mrs.L.Rogini Devi

AP/S&H



S. Seenuvasamurthi
Dr. S. SEENUVASAMURTHI, M.E., Ph.D.
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RAAKCET/PRINCIPAL/CIR/AUG2018

02/08/2018

CIRCULAR

This is to inform that the Skill Development Team is planning to conduct a value added course on "18SH02- Nuclear and Particle Physics" for all the first year students of science & humanities, from 09-08-2018 to 13-08-2018. Students are asked to utilize this opportunity and improve their skills.

PRINCIPAL

Circulation to:

1. All Students
2. All Faculty & Staff Members
3. All HoDs

Copy to:

1. All HoDs
2. Office



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DEPARTMENT OF SCIENCE AND HUMANITIES PRESENTS

VALUE ADDED COURSE ON NUCLEAR AND PARTICLE PHYSICS

2018-2019

DATE: 09/08/2018 to 14/08/2018

VENUE: RAAKCET

TIME: 09 am to 04 pm

Resource Person:

Dr. P. Arul

Assistant Professor,

Mailam Engineering college.

For Registration Contact:

Mr. G. Devaraj, AP/ S & H,

9587497946.

HOD

Mr. P. Radja Sacravarthy

PRINCIPAL

Dr. A. Sivakumar



raakengg@mail.com



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VALUE ADDED COURSES

2018-2019

Department of Science & Humanities.

18SH02- Nuclear and Particle Physics

Syllabus

Duration: 36 hours

Course Objective:

- To introduce properties of nuclei and details of popular nuclear models.
- To derive and discuss properties of nuclear decays and nuclear reactions in brief.
- To overview basic relativistic quantum mechanics and quantum electrodynamics for particle physics
- To familiarize with the fundamental forces and the dynamics of elementary particles under these forces

Course Outcomes:

CO1 – Describe basic properties of nuclei, nuclear interactions, nuclear structure and reactions.

CO2 – Identify the strengths and limitations of various nuclear models.

CO3 – Demonstrate the ability to critically evaluate the results in nuclear and particle physics

CO4 – Relate theoretical predictions and measurements of Quantum mechanical reasoning in classification of processes in subatomic world.

Module 1: General Properties of nuclei:

(9 Hours)

Atomic number(Z), mass number(A), Size of the nucleus and radius, nuclear mass - amu, density of nuclear matter - a simple estimate, binding energy curve, angular momentum, parity and statistics, magnetic dipole moments - Schmidt limits, electric quadrupole moment.

Module 2: Alpha Decay

(9 Hours)

Kinematics of alpha-decay, alpha decay theory, angular momentum and parity of alpha-transitions, alpha spectroscopy

Module 3: Gamma Decay

(9 Hours)

Energetics of gamma decay, Theory of gamma radiation, angular momentum and parity selection rules, internal conversion and internal pair-production, gamma spectroscopy.

Module 4: Nuclear Forces

(9 Hours)

General Characteristics of Nuclear forces. Deuteron Problem: The nuclear 2-body bound-system, theory, range and depth of the potential. Excited states of deuteron.



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Module 5: Neutron-proton scattering

(9 Hours)

n-p scattering at low energies, phase shift analysis, scattering length, spin dependence of the nuclear forces, shape independent approximation - effective range theory, coherent scattering of slow neutrons.

L. Reaguel
Course designed by

P. Radhakanthan
Approved by

SSS
Principal



S. Seenuvasamurthi
Dr. S. SEENUVASAMURTHI, M.E., Ph.D.
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CO - ATTAINMENT MAPPING

| Sl. No | Register Number | Student Name | CO1 | CO2 | CO3 | CO4 |
|--------|-----------------|--------------------|-----|-----|-----|-----|
| 1. | 18TH1001 | ANANDHASAMYUKTHA P | ✓ | ✓ | ✓ | ✓ |
| 2. | 18TH1002 | BALASUBRAMANIAN S | ✓ | ✓ | ✓ | ✓ |
| 3. | 18TH1003 | DEEPIKA R | ✓ | ✓ | ✓ | ✓ |
| 4. | 18TH1004 | DIVYA R | ✓ | ✓ | ✓ | ✓ |
| 5. | 18TH1005 | KALAIVANI J | ✓ | ✓ | ✓ | ✓ |
| 6. | 18TH1006 | KANIMOZHI K | ✓ | ✓ | ✓ | ✓ |
| 7. | 18TH1007 | KAVIYA K | ✓ | ✓ | ✓ | ✓ |
| 8. | 18TH1008 | MANIKANDAN A | ✓ | ✓ | ✓ | ✓ |
| 9. | 18TH1009 | MANJU S | ✓ | ✓ | ✓ | ✓ |
| 10. | 18TH1010 | MOHAMED SHAFEE S | ✓ | ✓ | ✓ | ✓ |
| 11. | 18TH1011 | MONISHA M | ✓ | ✓ | ✓ | ✓ |
| 12. | 18TH1012 | MUGUNDHAN K | ✓ | ✓ | ✓ | ✓ |
| 13. | 18TH1013 | RAJESH S | ✓ | ✓ | ✓ | ✓ |
| 14. | 18TH1014 | RANJITH R | ✓ | ✓ | ✓ | ✓ |
| 15. | 18TH1015 | SANTHIYA S | ✓ | ✓ | ✓ | ✓ |
| 16. | 18TH1016 | SIVASAKTHI M | ✓ | ✓ | ✓ | ✓ |
| 17. | 18TH1017 | THAMIZHARASAN P | ✓ | ✓ | ✓ | ✓ |
| 18. | 18TH1018 | VENKATESH S | ✓ | ✓ | ✓ | ✓ |



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| | | | | | | |
|-----|----------|----------------------------------|---|---|---|---|
| 19. | 18TH1019 | VISHNUPRIYA A | ✓ | ✓ | ✓ | ✓ |
| 20. | 18TB1201 | AJAY D | ✓ | ✓ | ✓ | ✓ |
| 21. | 18TB1202 | AMEENUL ISLAM N | ✓ | ✓ | ✓ | ✓ |
| 22. | 18TB1203 | DEVA R | ✓ | ✓ | ✓ | ✓ |
| 23. | 18TB1204 | DHAYANITHI A | ✓ | ✓ | ✓ | ✓ |
| 24. | 18TB1205 | DINESH T | ✓ | ✓ | ✓ | ✓ |
| 25. | 18TB1206 | EZHILARASAN S | ✓ | ✓ | ✓ | ✓ |
| 26. | 18TB1207 | GANESH M | ✓ | ✓ | ✓ | ✓ |
| 27. | 18TB1208 | GNANASEKAR S | ✓ | ✓ | ✓ | ✓ |
| 28. | 18TB1209 | KARTHIKEYAN S | ✓ | ✓ | ✓ | ✓ |
| 29. | 18TB1210 | KIRAN K | ✓ | ✓ | ✓ | ✓ |
| 30. | 18TB1211 | KOWS R | ✓ | ✓ | ✓ | ✓ |
| 31. | 18TB1212 | MOHAMED IRSHATH R | ✓ | ✓ | ✓ | ✓ |
| 32. | 18TB1213 | SARANVEL M | ✓ | ✓ | ✓ | ✓ |
| 33. | 18TB1214 | SELVAGANAPATHY T | ✓ | ✓ | ✓ | ✓ |
| 34. | 18TB1215 | SIVA A | ✓ | ✓ | ✓ | ✓ |
| 35. | 18TB1216 | SIVARAJ K | ✓ | ✓ | ✓ | ✓ |
| 36. | 18TB1217 | SIVASANKARAN K | ✓ | ✓ | ✓ | ✓ |
| 37. | 18TB1218 | VUBALANKA SAI VENKATA SRI RAM | ✓ | ✓ | ✓ | ✓ |



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COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to Pondicherry University)

VALUE ADDED COURSES

2018-2019

Department of Science & Humanities.

18SH02- Nuclear and Particle Physics

COURSE PLAN

| S.no | Date | Hours | Time | Topic | Faculty details |
|--------|----------|-------|--------------------|---|------------------------------|
| DAY -1 | | | | | |
| 1 | 09.08.18 | 1.2 | 9 AM -11 AM | Atomic number(Z), mass number(A), Size of the nucleus and radius, nuclear mass - amu, density of nuclear matter | Dr.V. Kalaiselvi & Dr.P.Arul |
| 2 | | 3,4 | 11.15 AM – 1.15 PM | a simple estimate, binding energy curve, angular momentum, parity and statistics, magnetic dipole moments | Dr.V. Kalaiselvi |
| 3 | | 5.6 | 2 PM -4 PM | a simple estimate, binding energy curve, angular momentum, parity and statistics, magnetic dipole moments | Dr.P.Arul |
| DAY 2 | | | | | |
| 4 | 10.08.18 | 7,8 | 9 AM -11 AM | Kinematics of alpha-decay, alpha decay theory, | Dr.V. Kalaiselvi |
| 5 | | 9,10, | 11.15 AM – 1.15 PM | angular momentum and parity of alpha-transitions | Dr.P.Arul |
| 6 | | 11,12 | 2 PM -4 PM | transitions, alpha spectroscopy. | Dr.V. Kalaiselvi |
| DAY -3 | | | | | |
| 7 | 11.08.18 | 13,14 | 9 AM -11 AM | Energetics of gamma decay, Theory of gamma radiation, angular momentum and parity selection rules, | Dr.P.Arul |



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| | | | | | |
|---|----------|-------|-------------------|---|------------------|
| 8 | | 15,16 | 11.15AM – 1.15 PM | internal conversion and internal pair-production | Dr.V. Kalaiselvi |
| 9 | | 17,18 | 2 PM -4 PM | gamma spectroscopy. | Dr.P.Arul |
| DAY -4 | | | | | |
| 10 | | 19,20 | 9AM -11AM | General Characteristics of Nuclear forces. Deuteron | Dr.V. Kalaiselvi |
| 11 | 12.08.18 | 21,22 | 11.15AM – 1.15 PM | Problem:The nuclear 2-body bound-system, theory, range and depth of the potential | Dr.P.Arul |
| 12 | | 23,24 | 2 PM -4 PM | Excited states of deuteron. | Dr.V. Kalaiselvi |
| DAY -5 | | | | | |
| 13 | | 25,26 | 9AM -11AM | n-p scattering at low energies, phase shift analysis, scattering length, | Dr.P.Arul |
| 14 | 13.08.18 | 27,28 | 11.15AM – 1.15 PM | spin dependence of the nuclear forces, shape independent approximation | Dr.V. Kalaiselvi |
| 15 | | 29,30 | 2 PM -4 PM | effective range theory, coherent scattering of slow neutrons. | Dr.P.Arul |
| ***ASSESSMENT EXAM WILL BE CONDUCTED AFTER ONE WEEK OF COURSE COMPLETION **** | | | | | |

BREAK TIME: 11.00 TO 11.15 AM

LUNCH BREAK: 1.15 PM TO 2.00 PM

L. Roymal
COURSE DESIGNED BY
Mrs.ROGINI DEVI

P. Padma Sathy
APPROVED BY
SKILL DEVELOPMENT TEAM

Dr. S. Seenuvasamurthi
PRINCIPAL



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VALUE ADDED COURSES

2018-2019

Department of Science & Humanities.

EVENT REPORT

Name of the Course: 18SH02- Nuclear and Particle Physics

Name of the Instructors: Dr.V. Kalaiselvi & Dr.P.Arul

Year/ Branch: I/ S&H

Duration of Course: 36 Hours (09-08-2018 to 14-08-2018)

Assessment Date: 20.08.2018

Post Event Summary:

The course was inaugurated on 09-08-2018 at 9.30 A.M. by our respectable principal and sessions were continued as per the schedule. Students were enriched their knowledge by attending the course. Finally, the course concluded by vote of thanks.

On 20.08.2018 assessment was conducted and feedbacks were collected from all the participants.

CO - Attainment:

- CO1 – Describe basic properties of nuclei, nuclear interactions, nuclear structure and reactions.
- CO2 – Identify the strengths and limitations of various nuclear models.
- CO3 – Demonstrate the ability to critically evaluate the results in nuclear and particle physics
- CO4 – Relate theoretical predictions and measurements of Quantum mechanical reasoning in classification of processes in subatomic world.



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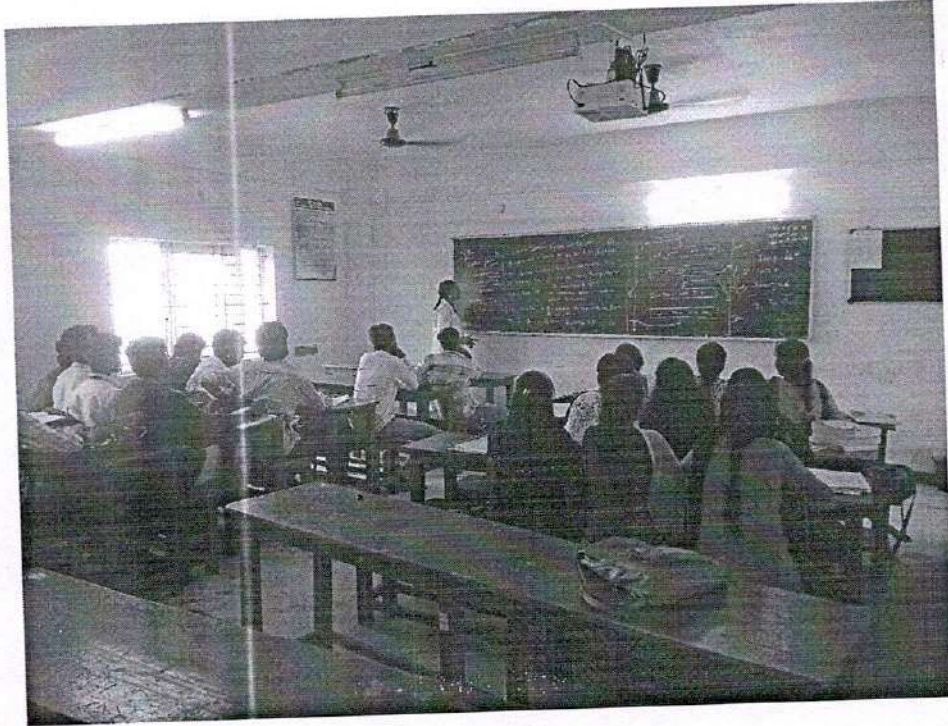


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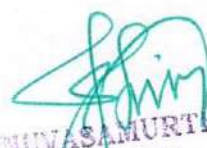
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Value Added Course on Nuclear and Particle Physics 2018-19



Kinematics of alpha-decay, alpha decay theory on 10.08.18




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