

NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE (NAAC 'A' Accredited & ISO 9001:2015 Certified Institution) (Approved by AICTE, Affiliated to APJ Abdul Kalam Technological University, Kerala)



6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms

Academic Year 2023-2024

| S.No | Description | Page No. | |
|------|-------------------------------------|----------|--|
| 1 | IQAC Internal Audit – Odd Semester | 2 | |
| | Schedule and Audit report | | |
| 2 | IQAC Internal Audit – Even Semester | 30 | |
| | Schedule and Audit report | | |



(An Autonomous Institution Affiliated to APJAKTU)
Pampady, Thiruvilwamala, Thrissur Dt., Kerala - 680588
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INTERNAL QUALITY ASSURANCE CELL



Dear Professors,

First internal audit for the odd semester (AY 2023-2) is being arranged by IQAC from 23/11/2023 to 25/11/2023. The auditors are assigned as attached. Audit format is also attached herewith. Auditors are requested to conduct the academic audit in the slot mentioned above and the report shall be submitted to IQAC on or before 31/11/2023. The date, time and venue of audit shall be fixed in consultation with the department concerned.

| SI. No. | Dept. | Auditor(s) | Auditee(s) |
|------------|---------------|----------------------|---------------------|
| 1 | CSE | Mr. Maheswaran K | HoD CSE for the |
| | COD | Ms. Neethu M | Ms.Sruthi M.R |
| 2 | CSE (AI & ML) | Ms. Sajitha A S | HoD AI&ML |
| _ | CSE (AT & ME) | Mr. Rakesh P R | Mr.Rakesh K |
| 3 | ECE | Ms. Sruthi M R | HoD ECE CO |
| | | Mr. Rakesh P R | Ms. Sajitha A S |
| 4 | EEE | Ms. Neethu M | HoD EEE |
| - | | Dr. Deepa A | Mr. Maheswaran K |
| .5 | ME | Ms. Anitha P | HoD ME |
| | | Ms. Sruthi M R COUNT | Mr. Rakesh P R |
| 6 | MTR | Dr. Deepa A | HOD MTR Wart |
| | | Ms. Roshini A R | Ms. Neethu M |
| 7 | MBA | Mr. Maheswaran K | HoD MBA |
| | | Ms. Anitha P | Ms. Roshini A R Ver |
| 8 | MCA | Ms. Roshini A R | HoD MCA |
| | | Ms. Sajitha A S | Dr. Deepa A — |

Cary to: All HODS

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INTERNAL QUALITY ASSURANCE CELL



Dear Professors.

Second internal audit for the odd semester (AY 2023-24) is being arranged by IQAC from 08/01/2024 to 10/01/2024. The auditors are assigned as attached. Audit format is also attached herewith. Auditors are requested to conduct the academic audit in the slot mentioned above and the report shall be submitted to IQAC on or before 12/01/2024. The date, time and venue of audit shall be fixed in consultation with the department concerned.

| SI. No. | Dept. | Auditor(s) | Auditee(s) |
|------------|---------------|------------------|------------------|
| 1 | CSE | Mr. Maheswaran K | HoD CSE |
| | | Ms. Neethu M | Ms.Sruthi M.R |
| 2 | CSE (AI & ML) | Ms. Sajitha A S | HoD AI&ML |
| _ | (-2-0-1-2) | Mr. Rakesh P R | Mr.Rakesh K |
| 3 | ECE | Ms. Sruthi M R | HoD ECE |
| 5 | ECE | Mr. Rakesh P R | Ms. Sajitha A S |
| | EEE | Ms. Neethu M | HoD EEE |
| 4 | | Dr. Deepa A | Mr. Maheswaran K |
| _ | ME | Ms. Anitha P | HoD ME |
| 5 | | Ms. Sruthi M R | Mr. Rakesh P R |
| 6 | MTR | Dr. Deepa A | HoD MTR |
| | | Ms. Roshini A R | Ms. Neethu M |
| 7 | MBA | Mr. Maheswaran K | HoD MBA |
| | | Ms. Anitha P | Ms. Roshini A R |
| 8 | MCA | Ms. Roshini A R | HoD MCA |
| | | Ms. Sajitha A S | Dr. Deepa A |

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IQAC INTERNAL ACADEMIC AUDIT REPORT

ACADEMIC YEAR

: 2023-24

SEMESTER: Sz, S5, S7

AUDITED DEPARTMENT: EFE AUDITED BY: Ms. Neuthu M, Ms. Druga P DATE: 25/1/23

| SI. NO | Key Aspects | | Incharges | | Completion of pending documents |
|-----------|---|-----|-----------|------|---------------------------------|
| 1 | Minutes and action taken reports of course/class committees of UG/PG a. Verify minutes and action taken report | \$3 | \$5 ~ | \$ 7 | |
| 2 | Minutes and action taken reports of advisory meetings a. Verify minutes and action taken report | S 3 | Somoning) | ST | |





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| 3 | Course File for all the courses | S3 | 85 | Sa- | | |
|---|---|-----------------|---------------|------------|-----------------|-------------|
| | a. Course file for all courses (theory, | | EET307 | EET401. | | |
| | practical, seminar, project, etc.) b. Examine course file for all | Updated. | 2/ | (Tuforial) | | |
| | necessary details such as | ./ | Υ | need w | | |
| | (i) Time slot of classes | ~ | | update) | | |
| | (ii) Syllabus | | | | | |
| | (iii) Course plan | | | | | |
| | (iv) Details of assignments, tutorials | | | | | |
| | (v) Attendance of students | | | | | |
| | (vi) Marks awarded for assignments, | | | 3 | | |
| | internal exams etc. | | | | | |
| | (vii) Topics covered | | | | | |
| | (viii) Extra classes engaged | | | | | |
| | Maintenance of course folder | | | | | |
| | a. The course folder shall contain (i) Course file | | | | | |
| | (ii) Sample Assignments | | | | | |
| | (iii) Sample Assignments | | | | | |
| | exams with QP | | | | | |
| | (iv) QP of end exams | | | | | |
| | (v) Statements of Internal Evaluation | 2 | H bas | | | |
| | marks | Centre (Auto | ening! | | | |
| | (vi) Module notes | 2 2 3 3 | 10 | <u> </u> | | |
| | (VI) Wiodule notes | 200 OU | W Nes Cards | 1 | | |
| | 20 | Page 1 | (3) Janet / 8 | | | |
| | | | 1 2 | | PRINCIPAL | |
| | | College of Engl | Confusionary | Nobru C | ollege of Engin | OPTIME MILL |





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| | | TRAC | |
|---|---|--------------------------------|--|
| 4 | Schedule of Time Table a. Verify class-wise and individual faculty-wise time table | (Individur Time Trble-Pending) | |
| 5 | a. Verify the tutorial logbook b. Size of tutorial classes c. Number of students assigned to a faculty d. mark tutorial hour in the timetable. Sample tutorial book | Verificad | |
| 6 | Internal test question paper and sample answer scripts a. Assessment can be done based on the following 1. punctuality of valuation 2. Question papers & scheme of evaluation 3sample answer sheets minimum | Soft copy - Pending | |

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| 7 | Syllabus coverage of practical course | |
|----|--|---|
| 8 | Laboratory manual, records and course file for all practical courses a. Verify course diary, course file, log book of equipment, work record of students (3numbers). b. Assessment can be done based on (i) number of students in a batch (ii) time given for doing the experiment (iii) number of experiments conducted as per syllabus (iv) Check syllabus of practical class pasted in front of the course diary (v) Check evaluation on the same date (vi) Mark distribution details | Pendung S5 EEL417. Pendung [Mark distri Tuchone plan, available -bothers sheet Mark distri-Need to update] Need to update] need to update |
| 9 | Equipment log registers, stock registers used in Laboratories | Verificed (All the file are updateed) |
| 10 | Conduct of series test | Soft copy, Hardcopy Crenting |

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| 11 | Project (Mini project/Design | | |
|----|---------------------------------|--|--|
| | project/Final semester project) | | |
| | progress review reports. | | |

Quality & Progress of projects

Can be accessed from

- a. Meeting minutes and panel members details
- b. Course file, project review records, outcome of projects such as papers published, patents, awards etc.
- c. project team maximum of 5
- d. includes literature survey, formulation of objectives, formulation of hypothesis/design/methodology, formulation of work plan, preparation of report

St- Main Project.

Soft copy of phases - Evaluation

Sheet available. Coth session

Completeed)

Seminar - EEQ413

Phase 1 - Soft Copy available.

Hardcopy - Pendung

T students presentation completed.



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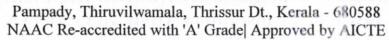
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| | | IQAC |
|----|---|---|
| | e. sample fair report | Face Record with students. |
| 12 | Mentoring details | Submitted along with monthly Self agressment |
| 13 | Result Analysis of previous semester | 33 55 59 |
| | Performance of students in the previous semester | |
| | a. Update with revaluation results b. subject wise and overall pass percentage | |
| | c. check green card updating | |
| 14 | Details showing the conduct of remedial classes. a. Check maintaining register for recording details of | Nenry College of Engineering and Research Centre (Autonomous) Nila Gardens, Eampage and Series (Autonomous) |



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| | | I Q A C |
|----|--|---|
| | remedial classes b. Attendance of students | |
| 15 | Details showing the conduct of Minor classes Check maintaining course file for recording details of minor classes | NIL |
| 16 | Details showing the conduct of Honour classes Check maintaining course file for recording details of honour classes | Pending |
| 17 | Assessment of Outcomes a. Verify COs and knowledge levels in internal and assignment question papers. b. Verify CO/PO attainment calculation for all the courses | Sollcopy available - (18-22 batch) Pending |

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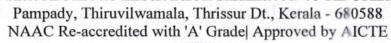
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| | | IQAC | |
|----|--|--|-------------------------------------|
| | c. Verify CO/PO mark entry of internal exam in the course file | | |
| 18 | Details of faculty evaluation and action taken on it. | | |
| | Students Feedback | NIL | |
| | a. two sets of feedback for each semester | Head to | |
| | b. % of students participated | | |
| | c. corrective actions taken for improving teaching effectiveness | | |
| 19 | Department library register showing volume and title of books, journals etc. | Updated. | |
| 20 | Platform used for LMS/Course materials and lectures uploaded | Updated in nepsite 2, 9009 le Nehru Gollege () Englanding and Résearch Centre (Autonomous) Opdated Thirty I wamala, Thrissur - 680580 | and Resea |
| 21 | NPTEL/SWAYAM course materials | Research Centre (Autonomous) Nila Gardens, Pampady Thirtys wamala, Thrissur - 680588 | Nils Gardens Pempady Intruvitwemais |



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| | | IQAC | |
|----|---|--|-----------|
| | recommended | | |
| 22 | Register showing activity points | 83 85 | SF |
| | | NIL Pending | ✓ |
| 23 | Updated Green Cards | Updaled. | |
| 24 | Categorisation of students with list | Need to update sport there | eted. |
| 25 | Details of value added courses | Need to update - from there - Sz S5 S5 S6m | 4 |
| 26 | Feedback from Students, Alumni, Employer & Faculty | NIL | |
| 27 | Faculty and staff profile | PRINCIPAL Nehru College of Engineer Research Centre (Auton | oring and |



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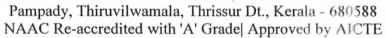


| | | 1275 |
|----|--|-------------------------------------|
| 28 | Paper publication | Updated |
| 29 | Conference Details | Updated |
| 30 | Refresher Course | NIL |
| 31 | Training Program | Soft Copy - Ausilable. |
| 32 | FDP Details | Updated |
| 33 | Funded FDPs | Updated. |
| | DEPARTMENT FILES | IN LINE WITH NBA/NAAC ACCREDITATION |
| | A1 - Files (Academic Files) FOR LAST 3 YEARS | |
| 34 | Time table (with tutorials) - Staff arranged in hierarchical order | Updated. |

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| | IQAC | | | |
|----|------------------------------------|---------------------|--|--|
| 64 | Professional Society Activity | Updated. | | |
| | D - Files (Miscellaneous Files) | | | |
| 65 | Staff Extension Activities | NIL | | |
| 66 | Staff Duties/Responsibilities | Updated | | |
| 67 | Guest Acquaintance (Semester-wise) | NIL | | |
| 68 | Department Budget | Chel - (rom office. | | |

Auditor

Ms Nectha N

Mr. Divya P Dean

Auditee

Maheswasan.K

HoD

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IQAC INTERNAL ACADEMIC AUDIT REPORT

ACADEMIC YEAR

: 2023-24

SEMESTER: 53,55,57

AUDITED DEPARTMENT: FEE AUDITED BY: Ms Neethu. M. M.s. Daya

| SI. NO | Key Aspects | Incharges | Completion of pending documents |
|-----------|---|------------------------|---------------------------------|
| 1 | Minutes and action taken reports of course/class committees of UG/PG a. Verify minutes and action taken report | | updated |
| 2 | Minutes and action taken reports of advisory meetings a. Verify minutes and action taken report | College of Engineering | npdated. |

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| 3 | Course File for all the courses | |
|---|---|-----------------------|
| | a. Course file for all courses (theory, | |
| | practical, seminar, project, etc.) | 55,85,87 |
| | b. Examine course file for all | 33,85,87 _ updated |
| | necessary details such as | - updated |
| | (i) Time slot of classes | |
| | (ii) Syllabus | |
| | (iii) Course plan | |
| | (iv) Details of assignments, tutorials | |
| | (v) Attendance of students | |
| | (vi) Marks awarded for assignments, | |
| | internal exams etc. | |
| | (vii) Topics covered | |
| | (viii) Extra classes engaged | |
| | Maintenance of course folder | |
| | a. The course folder shall contain | |
| | (i) Course file | |
| | (ii) Sample Assignments | |
| | (iii) Sample Answer books of internal | |
| | exams with QP | |
| | (iv) QP of end exams | |
| | (v) Statements of Internal Evaluation | |
| | marks | |
| | (vi) Module notes | |
| | Confederation | 3 |

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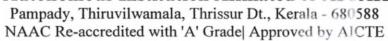
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| | | TQAC | |
|---|---|--------------------|----------|
| 4 | Schedule of Time Table a. Verify class-wise and individual faculty-wise time table | | updated. |
| 5 | Conduct of Tutorial Classes a. Verify the tutorial logbook b. Size of tutorial classes c. Number of students assigned to a faculty d. mark tutorial hour in the timetable. Sample tutorial book | | updated. |
| 6 | Internal test question paper and sample answer scripts a. Assessment can be done based on the following 1. punctuality of valuation 2. Question papers & scheme of evaluation 3sample answer sheets minimum | College of Engines | updated. |

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Nehra College of Engineering a

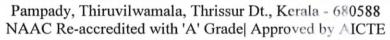
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| 7 | Syllabus coverage of practical course | Clpd steel- |
|----|---|--------------------------|
| 8 | Laboratory manual, records and course file for all practical courses a. Verify course diary, course file, log book of equipment, work record of students (3numbers). b. Assessment can be done based on (i) number of students in a batch (ii) time given for doing the experiment (iii) number of experiments conducted as per syllabus (iv) Check syllabus of practical class pasted in front of the course diary (v) Check evaluation on the same date (vi) Mark distribution details | 83, S5, S7 _ updated. |
| 9 | Equipment log registers, stock registers used in Laboratories | updated. |
| 10 | Conduct of series test | of Enginee up dafed. |

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Research Centre (Autonomous)

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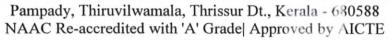
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preparation of report

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| 11 | Project (Mini project/Design project/Final semester project) progress review reports. | | |
|----|--|-----|----------|
| | Quality & Progress of projects Can be accessed from | | |
| | a. Meeting minutes and panel members details | | |
| | b. Course file, project review records, outcome of projects such as papers published, patents, awards etc. | | updated. |
| | c. project team maximum of 5 | | |
| | d. includes literature survey, | | |
| | formulation of objectives, formulation of | | |
| | hypothesis/design/methodology, formulation of work plan, | _ 1 | |





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| | TQAC | |
|----|---|------------------------------|
| | e. sample fair report | |
| 12 | Mentoring details | updated. |
| 13 | Result Analysis of previous semester | |
| | Performance of students in the previous semester a. Update with revaluation results b. subject wise and overall pass percentage c. check green card updating | updated. |
| 14 | Details showing the conduct of remedial classes. | In course |
| | a. Check maintaining register for recording details of | In lower file- updated |

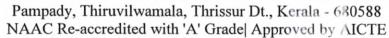
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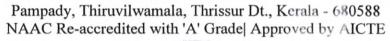


| | | ~ | |
|----|--|------------------------|----------------------|
| | remedial classes | | |
| | b. Attendance of students | | |
| 15 | Details showing the conduct of Minor classes | | |
| | Check maintaining course file for recording details of minor classes | | Not Applicable |
| 16 | Details showing the conduct of Honour classes | | Not Applicance |
| | Check maintaining course file for recording details of honour classes | | Not Applicat |
| 17 | Assessment of Outcomes a. Verify COs and knowledge levels in internal and assignment question papers. | | Need updit |
| | b. Verify CO/PO attainment calculation for all the courses | College of Engineering | for 1set Semester |

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| | | TQAC | |
|----|--|------------------------|---------------------------|
| | c. Verify CO/PO mark entry of internal exam in the course file | | |
| 18 | Details of faculty evaluation and action taken on it. | | |
| | Students Feedback | | Feed brock |
| | a. two sets of feedback for each semester | | Feedbrock done in Onla |
| | b. % of students participated | | |
| | c. corrective actions taken for improving teaching effectiveness | | |
| 19 | Department library register showing volume and title of books, journals etc. | | upolated. |
| 20 | Platform used for LMS/Course materials and lectures uploaded | 1 | updated. |
| 21 | NPTEL/SWAYAM course materials | College of Engineering | NIL |
| | | 131 225 1311 | |

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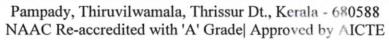


| | | IQAC | |
|----|---|--------------------|---------------------------|
| | recommended | | |
| 22 | Register showing activity points | | updated |
| 23 | Updated Green Cards | | upd sted |
| 24 | Categorisation of students with list | | |
| 25 | Details of value added courses | | expdated. S5 - Pending |
| 26 | Feedback from Students, Alumni, Employer & Faculty | | updated. |
| 27 | Faculty and staff profile | college of Enginee | updated. |

Nchru Colleg Research Ce Nila Gar Third/flwama











| 1875 | |
|--|---|
| Paper publication | updated. |
| Conference Details | updated. |
| Refresher Course | NIL |
| Training Program | NIL |
| FDP Details | updated |
| Funded FDPs | updated |
| DEPARTMENT FILES IN LINE WITH NBA/NA | AC ACCREDITATION |
| A1 - Files (Academic Files) | |
| | |
| Time table (with tutorials) - Staff arranged in hierarchical order | updated, |
| | Paper publication Conference Details Refresher Course Training Program FDP Details Funded FDPs DEPARTMENT FILES IN LINE WITH NBA/NA A1 - Files (Academic Files) FOR LAST 3 YEARS Time table (with tutorials) - Staff |

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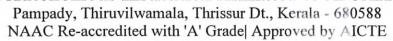
| | · · · · · · · · · · · · · · · · · · · | TQAC |
|----|---------------------------------------|-------------------------------------|
| 35 | Internal exam QP (DQAC Approved) | epdated. |
| 36 | Innovative Teaching approaches | updated. |
| 37 | Tutorial samples with log book | updated. |
| 38 | SFR (Computation as per NBA) | updated. updated. Updated. |
| | A2 - File (Academic Files) | <u>'</u> |
| 39 | Course files (Last 3 years) | In office. |
| | A3 - Files (Academic Files) | |
| 40 | CO-PO, CO-PSO mapping | to be up doted |
| 41 | PO, PSO attainment | to be updated (23-24) to be updated |
| | | |

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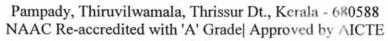


| Curriculum Gap (with Gaps and course identified to address the POs, PSOs) | |
|--|---|
| Project (a. List of projects with guides and students b. Panels, meeting minutes, rubrics and marks of evaluation c. PO, PSO attainment) | upd Hed. |
| Subject Group (List of groups and Faculty, allotment by HoD, Minutes of each group, Programs/Activities organized under each group) | Last semester Acesilable. |
| B - Files (Staff Files) | |
| Add-on Courses (Update these files for period July- June) Research funding (a. Internal, b. External) | S5-Pending |
| | course identified to address the POs, PSOs) Project (a. List of projects with guides and students b. Panels, meeting minutes, rubrics and marks of evaluation c. PO, PSO attainment) Subject Group (List of groups and Faculty, allotment by HoD, Minutes of each group, Programs/Activities organized under each group) B - Files (Staff Files) Add-on Courses (Update these files for period July- June) Research funding (a. Internal, b. |

ehru College of Engineering and Roseurch Centre (Autonomous) Nils Gardens, Pampady Thirmilwamala, Thrisser - 2005



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| 46 | Consultancy | BE NIL |
|----|--|-------------------------|
| 47 | Collaborative works/research and outcomes | Updated |
| 48 | Journal Publications: ISI, SCOPUS, Other Journals | Updated Updated. |
| 49 | Publications: Conference, Books, Book chapters, Articles, etc. | Updated. |
| 50 | IPR (and related activities) | |
| 51 | MoU | Cipaloted. Upoloted. |
| 52 | FDP Attended: (a. Outside own college b. Inside own college) | Updoted. |
| 53 | FDP/Conference Organized | Updoted. Updoted. NIL |
| 54 | Awards / Honors | NIL |

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Research Centre (Autonomous)

Wila Gardens, Pampady
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Pampady, Thiruvilwamala, Thrissur Dt., Kerala - 680588 NAAC Re-accredited with 'A' Grade Approved by AICTE

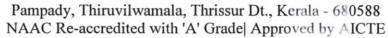


| 55 | External Interaction | NIL |
|----|---|---|
| | C - Files (Student Files) | |
| 56 | Roll List (for last 3 years) | Updoted. |
| 57 | KTU Results and Analysis (Semester-wise) | Cladated. |
| 58 | Success Data of Passed Out Batch | clpdsted |
| 59 | Placement (Proof- for previous Acad Year) | elpdoted |
| 60 | Higher Studies (Proof- for previous Acad Year) | clodated. clodated. clodated. clodated. clodated. |
| 61 | Career/Skill Development Programs | NIL |
| 62 | Achievements | NIL |
| 63 | Entrepreneurship / Start ups | NIL |

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| | IQAC | |
|----|------------------------------------|--------------|
| 64 | Professional Society Activity | Updated. |
| | D - Files (Miscellaneous Files) | |
| 65 | Staff Extension Activities | NIL |
| 66 | Staff Duties/Responsibilities | Updated |
| 67 | Guest Acquaintance (Semester-wise) | NIL |
| 68 | Department Budget | Avriloble in |

Ms. Dauga P Jums

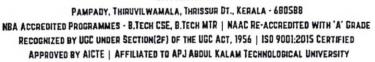
Auditee

PRINCIPAL

Nehru College of Engineering and Research Centre (Autonomous) Nila Gardens, Pampady Thiruvilwamala, Thrissur - 680544



(AUTONOMOUS)









INTERNAL QUALITY ASSURANCE CELL

Dear Professors,

25.03.2024

The FIRST INTERNAL AUDIT for the EVEN SEMESTER (AY 2023-24) is being arranged by IQAC from 02/04/2024 to 04/04/2024. The auditors are assigned as given below. Audit format is share by mail. Auditors are requested to conduct the academic audit in the slot mentioned above and the report shall be submitted to IQAC on or before 05/04/2024. The date, time and venue of audit shall be fixed in consultation with the department concerned.

| Sl. No. | Department | Auditors | Auditees |
|------------|----------------|--------------------|---------------------------------|
| | | Mr. Alex Kuruvila | HOD (i/c) CSE |
| 1 | CSE | Mr. Vysak Valsan | Faculty Member nominated by HOD |
| _ | CCC (AI & MI) | Ms. Neethu M | HOD (i/c) CSE (AI & ML) |
| 2 | CSE (AI & ML) | Ms. Anitha P | Mr. Rakesh K |
| 3 | ECE | Mr. Maheshwaran K | HOD, ECE |
| 3 | | Mr. Rakesh P R | Ms. Anooja B |
| 4 | EEE | Mr. Rakesh K | HOD, EEE |
| 4 | | Dr. Deepa A | Mr. Maheshwaran K |
| 5 | ME | Ms. Silja Varghese | HOD (i/c), ME |
| 3 | | Mr. Vysak Valsan | Mr. Rakesh P R |
| 6 | MTR | Mr. Maheshwaran K | HOD, MTR |
| 0 | | Mr. Rakesh K | Ms. Neethu M |
| 7 | MBA | Ms. Anooja B | HOD, MBA |
| / | | Dr. Deepa A | Mr. Alex Kuruvila |
| 8 | MCA | Ms. Silja Varghese | HOD, MCA |
| ō | | Ms. Anitha P | Dr. Deepa A |
| 9 | APPLED SCIENCE | Mr. Rakesh P R | HOD, APPLIED SCIENCE |
| 9 | | Ms. Neethu M | Ms. Anitha P |

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Research Centre (Authorities)
Nila Gardens, Pampady

Thiruvilwamala, Thrissur - 680588









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INTERNAL QUALITY ASSURANCE CELL

22.06.24

Dear Professors,

The SECONDINTERNAL AUDIT for the EVENSEMESTER (AY 2023-24) is being arranged by IQAC from 03/07/2024 to 05/07/2024. The auditors are assigned as attached. Audit format is also attached herewith. Auditors are requested to conduct the academic audit in the slot mentioned above and the report shall be submitted to IQAC on or before 08/07/2024. The date, time and venue of audit shall be fixed in consultation with the department concerned.

| Sl. No. | Department | Auditors | Auditees |
|------------|----------------|--------------------|-------------------------|
| 1 | CSE | Mr. Alex Kuruvila | HOD (i/c) CSE |
| 1 | CSE | Mr. Vysak Valsan | Ms. Silja Varghese |
| 2 | CSE (AI & ML) | Ms. Neethu M | HOD (i/c) CSE (AI & ML) |
| | CSE (AT & MIL) | Ms. Anitha P | Mr. Rakesh K |
| 3 | ECE | Mr. Maheshwaran K | HOD, ECE |
| 3 | ECE | Mr. Rakesh P R | Ms. Anooja B |
| 4 | EEE | Mr. Rakesh K | HOD, EEE |
| | | Dr.Deepa A | Mr. Maheshwaran K |
| 5 | ME | Ms. Silja Varghese | HOD (i/c), ME |
| 5 | | Mr. Vysak Valsan | Mr. Rakesh P R |
| 6 | MTR | Mr. Maheshwaran K | HOD, MTR |
| 0 | | Mr. Rakesh K | Ms. Neethu M |
| 7 | MBA | Ms. Anooja B | HOD, MBA |
| / | | Dr.Deepa A | Mr. Alex Kuruvila |
| 8 | MCA | Ms. Silja Varghese | HOD, MCA |
| o | | Ms. Anitha P | Dr.Deepa A |
| 9 | APPLED SCIENCE | Mr. Rakesh P R | HOD, APPLIED SCIENCE |
| 7 | | Ms. Neethu M | Ms. Anitha P |

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ACADEMIC YEAR: 2023-2024

AUDITED DEPARTMENT: ECE SEMESTER: EVEN

AUDIT NO: I

DATE: 2/04/24

AUDITED BY: 1. RAKESH P R 2. MAHESWARAN K

| S1. No | Key Aspects | Status of Documents | Auditor Remarks | Completion of pending documents |
|-----------|---|-----------------------------|-----------------|---------------------------------|
| | Minutes and action taken reports of course/class committees of UG/PG a. Verify minutes and action taken report | | | * |
| | Minutes and action taken reports of advisory meetings | COMPLETED | | |
| | a. Verify minutes and action taken report | | | |
| | Course File for all the courses a. Course file for all courses (theory, practical, seminar, project, etc.) b. Examine course file for all necessary details such as | S4: Completed S6: Completed | | |
| | (i) Time slot of classes (ii) Syllabus (iii) Course plan (iv) Details of assignments, tutorials (v) Attendance of students | S8: Completed | | |

AUDITED BY:

1. RAKESH P.R. / Oxford (Name & Signature)

2. Mahlswan. K





(AUTONOMOUS)





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| | D BY AICTE AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNI | IVERSITY |
|---|--|-----------------------|
| internal exams etc. (vii) Topics covered (viii) Extra classes engaged Maintenance of course folder a. The course folder shall contain (i) Course file (ii) Sample Assignments (iii) Sample Answer books of internal exams with QP (iv) QP of end exams (v) Statements of Internal Evaluation marks (vi) Module notes (vii) QUESTION BANK Schedule of Time Table | COMPLETED | |
| a. Verify class-wise and individual faculty-wise time table | | |
| Conduct of Tutorial Classes a. Verify the tutorial logbook b. Size of tutorial classes c. Number of students assigned to a faculty d. Hours of tutorial classes' per subject per week, mark tutorial hour in the timetable. | COMPLETED | Nills Gardens Pampady |

(Name & Signature)

2. Mahewaran K

PRINCIPAL

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Recearch Centre (Autonomous)

Nila Gardens, Pamperty

Thiruvilwamala, Thrissu: - 2/28



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| Internal test question paper and sample answer scripts | COMPLETED | | |
|---|-----------|---|--|
| a. Assessment can be done based on the following | | | |
| 1. Punctuality of valuation | | | |
| Question papers & scheme of evaluation | | | |
| 3sample answer sheets minimum | | | |
| Syllabus coverage of practical course | COMPLETED | | |
| Laboratory manual, records and course file for all practical courses | COMPLETED | | |
| a. Verify course diary, course file, log book of equipment, work record of students (3numbers). | - | | |
| b. Assessment can be done based on | | | |
| (i) number of students in a batch | | | |
| (ii) time given for doing the experiment | | | |
| (iii) number of experiments conducted as per syllabus | | | |
| (iv) Check syllabus of practical class | | 1 | |

AUDITED BY: 1. RAKKSH. P.R. OKA (Name & Signature) 2. Maheswaan. K

Nehru College of Engineering and Research Centre (Autonomous) Nila Gardens, Pampady Thiruvilwamala, Thrissur - of 8





PAMPADY, THIRUVILWAMALA, THRISSUR DT., KERALA - 680588

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pasted in front of the course diary (v) Check evaluation on the same date (vi) Mark distribution details Equipment log registers, stock COMPLETED registers used in Laboratories Conduct of series test COMPLETED Project (Mini project/Design COMPLETED project/Final semester project) progress review reports. Quality & Progress of projects Can be accessed from a. Course file, project review records, outcome of projects such as papers published, patents, awards etc. b. project team maximum of 5 c. includes literature survey, formulation of objectives, formulation of hypothesis/design/methodology, formulation of work plan, preparation of report

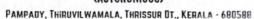
AUDITED BY: (Name & Signature)

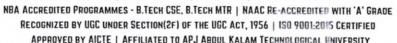
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| d. sample fair report | | |
|---|-----------|--|
| Mentoring details | COMPLETED | |
| Result Analysis of previous semester Performance of students in the previous semester a. Update with revaluation results b. Subject wise and overall pass percentage c. Check Green Card updating | COMPLETED | |
| Details showing the conduct of remedial classes. a. Check maintaining register for recording details of remedial classes b. Attendance of students | COMPLETED | |
| Details showing the conduct of Minor classes Check maintaining course file for recording details of minor classes | COMPLETED | |

AUDITED BY: (Name & Signature)

Ness Gardens Pampady Thiruvilwamala Thrissur - \$80588

1. RAKRSH-P.R/OM.
2. Mahlswagan. K

Thiruvilwamaia, Languar - 18858



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PAMPADY, THIRUVILWAMALA, THRISSUR DT., KERALA - 680588 NBA ALCREDITED PROGRAMMES - B.TECH CSE, B.TECH MTR | NAAC RE-ACCREDITED WITH 'A' GRADE

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| Details showing the conduct of Honour classes Check maintaining course file for recording details of honour classes | Completed | |
|--|---------------------|--|
| Assessment of Outcomes a. Verify COs and knowledge levels in internal and assignment question papers. b. Verify CO/PO attainment | Completed | |
| Details of faculty evaluation and action taken on it. Students Feedback a. two sets of feedback for each semester b. % of students participated | Date to be decided. | |
| c. corrective actions taken for improving teaching effectiveness | | |

AUDITED BY:
(Name & Signature)

1. RAKESH P.R. Coay

Allswaran K



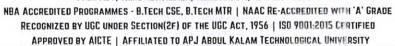
Nila Gardens, Pampary Thiruvilwamala, Thrissur - 680588





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PAMPADY, THIRUVILWAMALA, THRISSUR DT., KERALA - 680588





Department library register Completed showing volume and title of books, journals etc. Platform used for LMS/Course Completed materials and lectures uploaded NPTEL/SWAYAM course materials Completed recommended Register showing activity points Completed **Updated Green Cards** Few Updations Required Categorisation of students with list Completed Details of value added courses Completed Feedback from Students, Alumni, Available Employer & Faculty Faculty and staff profilE Completed 680588

AUDITED BY:
(Name & Signature)

2. Mahlswaran. K

PRINCIPAL Nehru College of Engineering and Research Centre (Autonomous) Nila Gerdens, Pampady Thiruvilwamala, Thrissur - 680586





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PAMPADY, THIRUVILWAMALA, THRISSUR DT., KERALA - 680588 NBA ACGREDITED PROGRAMMES - B.TECH CSE, B.TECH MTR | NAAC RE-ACCREDITED WITH 'A' GRADE

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| Paper publication | Available |
|--------------------|-----------|
| Conference Details | Available |
| Refresher Course | N/A |
| Training Program | Available |
| FDP Details | Available |
| Funded FDPs | N/A |

AUDITED BY: (Name & Signature)

1. RAKRSH-P.R. Jakas 2. Mahaswalan. K

AUDITERS

A Nehru College of Engineering and Research Centre (Autonomous)
Nila Gardens, Rampady
Thiruvilwamale, Thrissur - 680588



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PAMPADY, THIRUVILWAMALA, THRISSUR DT., KERALA - 680588

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ACADEMIC YEAR: 2023-2024

AUDITED DEPARTMENT: 1. ACADEMIC FILES: SEMESTER: EVEN

AUDIT NO: 2

PROGRAMME: UG

| SI. No | Key Aspects | Status of Documents | Auditor Remarks | Completion of pending documents |
|-----------|---|-----------------------------|-------------------------------------|---------------------------------|
| а | Minutes and action taken reports of course/class committees of UG/PG a. Verify minutes and action taken report | completed | Mainteint File | |
| b | Minutes and action taken reports of advisory meetings a. Verify minutes and action taken report | Completed | Mainteined File. | , |
| С | Course File for all the courses a. Course file for all courses (theory, practical, seminar, project, etc.) b. Examine course file for all necessary details such as (i) Time slot of classes (ii) Syllabus (iii) Course plan | 84 - EE7 202 86 - EE7322 | updated and Completed | |
| | (iv) Details of assignments, tutorials (v) Attendance of students (vi) Marks awarded for assignments, internal examsetc. | | Completed WCIPAL of Engineering and | and Research |

AUDITED BY:

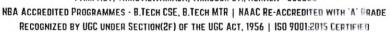
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Research Centre (Autonomous) Nila Gardens, Pampa(V)



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|----------------|--|---|---|---|
| | (vii) Topics covered (viii) Extra classes engaged Maintenance of course folder a. The course folder shall contain (i) Course file (ii) Sample Assignments (iii) Sample Answer books of internal exams with QP (iv) QP of end exams (v) Statements of Internal Evaluation marks (vi) Module notes (vii) QUESTION BANK | | | |
| d | Schedule of Time Table with Tutorials a. Verify class-wise and individual faculty- wise time table (staff arranged in hierarchical order) | aveilable | opelated. | |
| е | Conduct of Tutorial Classes a. Verify the tutorial logbook b. Size of tutorial classes c. Number of students assigned to a faculty d. Hours of tutorial classes' per subject per week, mark tutorial hour in the timetable. e. Sample tutorial book | Available in Course File PRIN | completed | |
| AUDIT (Name | ED BY: & Signature) 1. Sajitta AS Byth 2. PROMOD N. And | Nehru College of Rosearch Centre Nila Garden Thhuvilwamala, | te (Autonomous) is, Pampady Thrissur - 680588 | Nils Gardens Pampady Thiruvitwameia Thrissur - 680588 |







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| | Internal test question paper and sample answer scripts | | | |
|---|---|---------------------|--|------------------|
| | a. Assessment can be done based on the following 1. Punctuality of valuation 2. Question papers & scheme of evaluation (DQAC Approved) 3sample answer sheets minimum | available | completel. | |
| g | Syllabus coverage of practical course- Laboratory manual, records and course file for all practical courses | S4_ EEL 202 | ZEL 202 - Updated & Completed | |
| | a. Verify course diary, course file, log book of equipment, work record of students (3numbers). | • | Complete | |
| | b. Assessment can be done based on (i) number of students in a batch (ii) time given for doing the experiment (iii) number of experiments conducted as per syllabus | S6-EEL334 JEL332 | EEL332 Gonpleted | |
| | (iv) Check syllabus of practical class pasted in front of the course diary (v) Check evaluation of students performance in practical classes on the same date | Nehrs College | NCIPAL of Engineering and intre (Autonomous) | ing and Research |

AUDITED BY:
(Name & Signature) 1. Sayltha AS - Dastalzy
2. Promoso k doot the

Thiruvilwamala, Thrissur - 68



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NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE



PAMPADY, THIRUVILWAMALA, THRISSUR DT., KERALA - 680588

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| | (vi) Mark distribution details | | | |
|---|--|-----------------------------------|---|------------------|
| h | Equipment log registers, stock registers used in Laboratories and the Lab Manuals for the respective labs | Available | completed | |
| i | Conduct of series test | Schedule available | completel. | |
| j | Project (Mini project/Design project/Final semester project) progress review reports. Quality & Progress of projects Can be accessed from | Miniproject Not Applicable | | |
| | a. Course file, project review records, outcome of projects such as papers published, patents, awards etc. b. project team maximum of 4 c. includes literature survey, formulation of objectives, formulation of hypothesis/design/methodology, formulation of work plan, preparation of | Main Projet defeils available. | course Folder mandernal | |
| | d. sample fair report | | RINCIPAL se of Engineering and | ing and Researcy |
| | Mentoring details | Rexearch (| entre (Autonomous) ardens, Pampady vala, Thrissur - 68958 | 18 |

(Name & Signature) 1. Sajitla A.S Signature) 2.

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|-----|---|--|----------------------------|----------|
| k | | | | |
| I | Result Analysis of previous semester Performance of students in the previous semester a. Update with revaluation results b. Subject wise and overall pass percentage c. Check Green Card updating | 8 3 85 87,88 | Updated | |
| m . | Details showing the conduct of remedial classes. a. Check maintaining register for recording details of remedial classes b. Attendance of students | Available | Maintained in conservit | , |
| n | Details showing the conduct of Minor classes Check maintaining course file for recording details of minor classes | Not applicable. | | |
| o | Details showing the conduct of Honour classes Check maintaining course file for recording details of honour classes | COURSE. File Manheured | completed. | reeing . |

AUDITED BY:
(Name & Signature) 1. Sylta As Butter
2.

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Nehru College of Engineering and Research Centre (Autonomous) Nila Gardens, Pampady (Autonomous) Thiruvijwamala, Thrissur - 68088





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|) | Assessment of Outcomes | | | |
|-------|---|------------------------------------|--|-------------------------|
| | Verify COs and knowledge levels in internal and assignment question papers. | available | Completed. | |
| | b. Verify CO/PO attainment calculation for all the courses | | р т. с., | |
| | c. Curriculum Gap (with Gaps and course identified to address the POs,PSOs) | | | |
| 4 | Details of faculty evaluation and action taken on it. | Will be taken during end of the | NIL | NIL |
| | Students Feedback | semester | | |
| | a. two sets of feedback for each semester | | | |
| | b. % of students participated | | | |
| | c. corrective actions taken for improving teaching effectiveness | | | |
| | Department library register showing volume and title of books, journals etc. | updated | completed. | |
| S | Platform used for LMS/Course | available | and late | |
| | Innovative teaching Approaches | available | Oporter. | |
| t | Feedback from Students, Alumni, Employer & Faculty | , | PRINCIPAL | aling and Reseas |
| AUDIT | ED BY: & Signature) 1. Sails A-5 | Sau Res | u College of Engineering and earch Centre (Autopolious) Nila Gardens, Pampel | Nila Gardens Pampady |

Thiruvilwamala, Thrissul





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2. STAFF FILES:

| a | Research funding (a. Internal, b. External) | lin | ~ 1 | |
|---|--|--------------------------------------|-------------------------------------|--------------------|
| b | Consultancy | NIJ | Nil | |
| С | Collaborative works/research and outcomes | available | opdided. | |
| d | Journal Publications: SCI, SCIE, SSCI, SCOPUS, Other Journals | Available | Updated | |
| е | Publications: Conference, Books, Book chapters, Articles, etc. | Available | Uplated | |
| | IPR (and related activities) | RIN | NIJ | |
| g | MoU | Slemmers & Enthur Available (Coc) | Updatel | |
| h | FDP Attended: (a. Outside own college b. Inside own college) | Available | Updated | , |
| i | FDP/Conference Organized | Nil | PRINCIPAL bliege of Engineering and | sting and Research |

AUDITED BY:
(Name & Signature) 1. Sylta A J Sylvy
2. Promod u ford to 124





PAMPADY, THIRUVILWAMALA, THRISSUR DT., KERALA - 680588

NBA ACCREDITED PROGRAMMES - B.TECH CSE, B.TECH MTR | NAAC RE-ACCREDITED WITH 'A' GRADE RECOGNIZED BY UGC UNDER SECTION(2F) OF THE UGC ACT, 1956 | ISO 9001:2015 CERTIFIED

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| j | Awards / Honors | Nil | NIS | |
|---|-------------------------------|-----------|-----------------|--|
| k | External Interaction | Rin | NU | |
| 1 | Staff Duties/Responsibilities | Available | File maistained | |
| m | Department Budget | Available | File maintened. | |

3.STUDENT FILE:

| а | Roll List with category (for last 3 years) | Available | Ugdated | |
|---|--|--------------------------------|----------------|--------------|
| b | KTU Results and Analysis (Semesterwise) | Available | Updated | |
| С | Success Data of Passed Out Batch(for the last 3 years) | Available | File Muntained | |
| d | Placement (Proof- for the previous Academic Year) | placement defails askirlaby | Placemet File | r > |
| е | Higher Studies (Proof- for the previous Academic Year) | Available P | RINCIPAL dated | and Researcy |

AUDITED BY:
(Name & Signature) 1. Sayitha A-J Mary 12.

Promiso & Sonor





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|---|--|---|------------------------------|--|
| f | Career/Skill Development Programs | For Employorbilds EnLenuret Myo (E) | File to be p) maintained. | |
| g | Achievements | Available | completed. | |
| h | Entrepreneurship / Start ups | NIJ | NI | |
| i | Professional Society Activity | TEE, ISTE | assimilar File. | |
| j | Students attending MOOC and other online courses | NIL | · NI | |
| g | Register showing activity points | St - Updated | updated & completed | |

Page

PRINCIPAL

Nehru College of Engineering and Research Centre (Autonomous)

Nila Gardens, Pampady Thiruvilwamala, Thrissur - 68058

AUDITED BY:
(Name & Signature) 1. Softha As Dougles
2. PROMOD & Stoler