

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), Sivakasi

(Affiliated to Madurai Kamaraj University, Reaccredited with "A" Grade by NAAC, College with Potential for Excellence by UGC & Mentor Institution under UGC PARAMARSH)

NAAC SSR Cycle IV (2015-2020)

3.4. RESEARCH PUBLICATIONS AND AWARDS 3.4.1 IMPLEMENTATION OF CODE OF ETHICS FOR RESEARCH

PLAGIARISM CHECK THROUGH SOFTWARE

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI – 626 123.



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COUNCIL MINUTES REGARDING PLAGIARISM CHECK

Minutes of the Council Meeting

The Council Monting was hold an 23.01.2000 at 10 a.m. at the Secretary room. Points regarding Sytlatus Guidelium, Seed Money, Sports Day, Brand of Studies, and General instructions were discussed.

♦ 2829 Syllabas Guidelines.

- > HOD and Staff-in Charge for Syllabas are asked to check 2020 Syllabora Guidelines, eligibility conditions for Administer, CO., PO. PECP's, PAM Weightage, Vision, Mission, Hours and Credit,
- > Asked to manne Part III subjects sheadd have more PAM Weightage than Part IV whiren.
- Resolved all the faculty members have discussion regarding Syllabus 2020 from 3.30 p.m. to 4.30 p.m. on 29th and 30th January 2020.
- All the Departments are soluted to subsolt the Syllaban on 31st January 2020 along with the feedback given by the External examiner with justification.
- > Decided to include Professional Effices as one chapter in Posce Education for UG molecus and Research Ethics for PG and M.Phil statlents.

· Board of Studies

Resolved to have any Expert from other University and atleast one Expert should have thorough knowledge in DBE.

Sports Day and College Day

- Decided to conduct Sports Day on 1th Potenany 2020.
- * The date for Convocation Day and College Day with he decided after having discussion with the Management,

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Staff members, PG statema and Research scholars are asked to check plagiarism

for their research papers, articles and books at free of cost for the first time.

Appreciation

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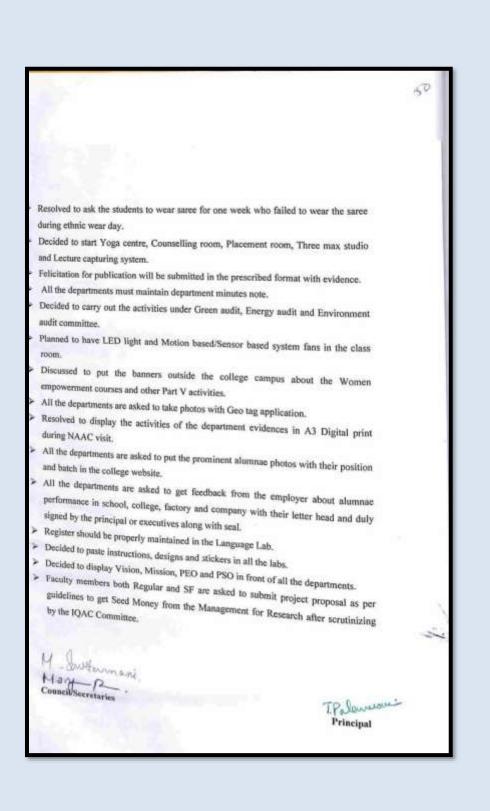
- > Our college have been selected as Mentov Institution and the sanctioned amount is Ro.30 latthe out of which our college has received Ro.15 lakhs.
- > All the departments are usked to mention below the college same as "Mentor Institution under UGC paeararsh".
- > Our college has been received Food Safety Certificate for house, santeen and store. Gatting FSSAI certificate for Bakery unit is in process-

♦ PO & CO Amilement

- > All the departments are asked to maintain CIA test paper and PO attainment file for the batch 2019-2020 and also have backup is pen drive.
- Faculty members are asked to give reasons and suggestions if they are unable attain CO is the term test and the same should be duly signed by the Course trainfers and HOD.

O General Instructions

- > Planned to conduct Term Test on 20% of every month.
- > Resolved to place orders in the college canteen for the participants while conducting any programmes. If neurosary, Chief Guest latch will be arranged in the hostel.
- > Decided to mention the sponsor either the Massagement or Autoeomy Grant or both shrald be specified in the invitation while conducting any programman.
- > Faculty members are asked to ensure the language correction for the article to be published either in the College Magazine or Department Magazine for publication.
- Faculty monitors are solved to be ponetool to the class and make the compan silence.
- Faculty members are asked not to bring their vehicles to the Administrative Block. > All the departments are asked to include the booted students to participate in the latercollegiate Mert.
- HOD's are asked to sufmit the ICT register to the KAAC.
- > Every faculty member must submit their report to the KDAC duly signed by the Programme Officer and HOD every month regarding their contribution to the college.
- > Staff members are taked to disease about the students' satisfaction survey with the final year students and also ask them to intimate their active mobile number and check. their e-mail id regalarly.



Minutes of the Council Menting

The Council Meeting was held on 17.03.2020 at 10 a.m. at the Secretary room. Points regarding Board of Studies, III Term Test, Project Submission and OBE attainment were discussed.

♦ Term Test & OBE Attainment

Resolved to upload the III Term Test Mark in the Flair on 13th April 2020.

- Last date for CIA verification will be on 15th April 2020.
- Decided to submit the Project on 98 April 2020.

Students are asked to check Plagiarium in the library on or before 24th March 2020.

HOOs are asked to check and ensure the last sheet of final OBE attainment.

- Deard of Studies
 - Decided to conduct Board of Studies meeting on April 27th for Arts and 28th for Science.
 - Resolved to submit the Syllabus 2020 on or before 23rd March 2020.

Others

- Decided to prepare and submit the Department Wise consolidated Academic Audit Report for the year 2019-2020 on or before 30th March 2020.
- Planned to conduct Criterion Wise Meeting on 30th March 2020.
- > Asked to submit the workload for the Even Semester 2019-2020 on the last working day.

M-Soutaman' LA S A Council Secretaries

Principal Principal Dr. T. Palanceswari PRINCIPAL The Standard Floeworks Rejuzzbran College for Women, SiVAXASL

URKUND SOFTWARE



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PLAGIARISM CHECK SAMPLE REPORT

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Sources included in the report:

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CHAPTER – III "RESULT AND DISCUSSION" "X RAY DIFFRACTION ANALYSIS" "XRD pattern used to determine the structure, phase and particle size of the particle, structural parameters of the sample. Figure 1 shows the pure and Ni doped SnO2 XRD pattern". The "scherre's equation used to compute

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the average crystallite size of the nanoparticles. "D= $k\lambda/(\beta \cos \Theta)$

Where, D is the size of the crystallite ,k

is the shape factor,

 λ is the wavelength of the incident

X-ray beam, β is the

full width at half maximum

and Θ is the Bragg angle".

The

rutile structure was compared with JCPDS data (card No: 41-1445). The pure sno2 and Ni doped SnO2 nanoparticles exhibit three major axes appears at 27.3°, 33.8°, 51.5° respectively.

The peaks come out at (101) phase (20≈27.3) ,(1 1 0) phase (20≈33.8),(2 1 1)phase (20≈51.5).

"The lattice parameter for tetragonal structure were calculated using this formula"

"dhkl=1/\((h2+k2/a2)+l2/c2))"

"Where,

hkl are integral lattice plane index

a,c is the lattice constant."

"Table 1 : Structural parameters"

"Table 2 : Average crystallite size of SnO2 nanoparticles"

Figure 1 :XRD pattern for pure and Ni doped SnO2

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The Ni doping does not change the tetragonal structure of SnO2. The

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intensity of the peaks decreases when increases the concentration of Ni. The full width at half maxima indicates the particle size of the Ni doped Tin oxide nanoparticles decreases when the Ni concentration is increased. "VIBRATIONAL ANALYSIS" "FTIR SPECTROSCOPY" The figure 2 indicate the FTIR spectrum of pure and Ni doped SnO2. The four main characteristic peaks are exhibited by the FTIR spectrum of pure and Ni doped SnO2. The peak at around 540 – 620 cm-1, which refers the sn-o stretching modes of sn-o-sn. The peak appear at around 1600-1680 cm-1, 2260-2500 cm-1 and 3150-3450 cm-1, which refers the stretching vibration of water molecules. "Table 3 : FTIR spectrum of pure SnO2 and Ni doped snO2 nanoparticles"

Figure 2: FTIR spectrum of pure and Ni doped SnO2 nanoparticles

"OPTICAL ANALYSIS" "UV - VISIBLE ABSORPTION SPECTROSCOPY"

Figure 3: UV-Vis absorption spectra of pure and Ni doped SnO2 nanoparticles. The band energy is calculated by the Tauc plot. "(α hv)2 = A(Eg-hv)" "Where, A – Constant Eg – Band gap of the particles h – planck's constant α - absorption coefficient"

The absorbance depends upon the band gap, surface roughness and impurity centres.

Figure 4: Tau plot for pure and Ni doped SnO2 nanoparticles Tau plot for pure and Ni doped SnO2 quantum dots are represented by figure 4. The corresponding band gap values were calculated which is given in the table 4. The band gap value of Ni doped SnO2 are less than the pure Tin oxide. The value of the band gaps are increased.

"Table 4: Band gap of synthesized nanoparticles"

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ELECTRICAL ANALYSIS" "AC IMPEDANCE SPECTROSCOPY"

Figure 5: Conductance spectra of pure and Ni doped SnO2

nano particles at room temperature.

Figure 6: conductance spectra of Ni doped SnO2 nanoparticles

Table 5 : Conductance spectra of pure and Ni doped sno2 nano particles.

Figure 7: cole-cole plot for pure and Ni doped SnO2 nanoparticles The valuation of ion conductivity are calculated by the following equation " σ =L/RBA

Here, L is the thickness A is the surface area Rb is the bulk resistance"

Figure 7: cole – cole plot for Ni doped SnO2 nanoparticles

"Table 6: cole - cole plot data of pure and Ni doped SnO2 nano particles."

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The maximum value of conductivity is 6.553×10-6 s/cm for pure tin oxide nanoparticles. When Ni is added to the pure SnO2 nanoparticles the conductivity is increased till the D4 concentration but is suddenly decreaed in D5 because the amount of Ni dopant is increased. The maximum ionic conductivity for pure tin oxide nano particles is 9.221×10-6 observed from the .The values of conductivity is increased.

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| the average crystallite size of the nanoparticles. "D=k λ /($\beta \cos \Theta$) Where, D is the size of the crystallite ,k is the shape factor, λ is the wavelength of the incident X-ray beam, β is the full width at half maximum and Θ is the Bragg angle". | The average crystallite size of the nanoparticles where calculated based on the scherrer's equation is," "D=k λ / (β cos θ)" Where, "D is the crystallite size". "K is the shape factor as 0.89". " λ is the wavelength of the incident x- ray beam (1.54178x 10-10 m)." " β is the full width at half maximum of XRD peak". " θ is the bragg angle. (| | |
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Figure 5: Conductance spectra of pure and Ni doped SnO2

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The Ni doping does not change the tetragonal structure of SnO2. The

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the Ni doping does not transform the tetragonal structure of SnO2. The