

Key Result Area: Poverty Reduction and Empowerment of the Poor and Vulnerable

Programs/ Activities/ Projects	Project Title	Brief Description	Beneficiaries							2021 Target	Status
			2014	2015	2016	2017	2018	2019	2020		
Scholarship Programs	DOST-SEI S&T Undergraduate Scholarship Programs - RA 7687 (Science and Technology Scholarship Act of 1994) - RA 2067 (Merit Scholarships)	The scholarship is for poor, talented and deserving students desiring to pursue BS degrees in science and technology in identified priority areas.	12,117	15,858	17,491	19,058	23,313	27,485	30,039	36,452	Yearly implementation with different target participants every year. Projects are completed every end of the year.
	- RA 10612 (Fast-Tracked S&T Scholarship Act of 2013)	Merit Scholarships are for students with high aptitude in science and mathematics and willing to pursue fields in science and technology. It is the precursor of all S&T scholarships of DOST where about 300 scholarship slots are available every school year. It originated from the "Science Talent Search" which begun in 1958 when the National Science Development Board (NSDB), the forerunner of DOST, was created. The first set of awards consisted of 10 slots, which gradually increased through the years. The program has produced leaders and decision-makers in various areas of S&T, in government, the academe, and private industries.									
		The beneficiaries are incoming college students who wish to pursue careers in the DOST identified priority courses in basic, and applied sciences, engineering and science teaching.									
Graduate Scholarship Programs	- Capacity Building Program in Science Education	R.A. 10612 or the Fast-tracked S&T Scholarships envisions a fast tracking of more science, technology, and engineering graduates by offering scholarships to deserving students in these courses in their 3rd year undergraduate study, based on their competitiveness and merit. It also offers additional incentives to attract the graduates of this scholarship program into teaching science, mathematics and technology courses in a public or private high school.	159	267	377	618	843	1,192	1,299	1,656	
	The program awards MS and PhD scholarship grants in Science Education to DOST-SEI scholar-graduates; graduate students with academic honors, qualified science and mathematics faculty of Teacher Education Institutions (TEIs) and consortium member universities with a major in any of the priority fields like Biology, Chemistry, Physics and Mathematics. The beneficiaries are DOST-SEI scholar-graduates; graduate students with academic honors, qualified science and mathematics faculty of Teacher Education Institutions (TEIs) and consortium member universities.										
	- Accelerated S&T Human Resource Development (ASTHRD) Program	The Accelerated S&T Human Resource Development Program is a unified and innovative human resource program aimed at accelerating the production of high level human resources by awarding MS and PhD scholarship grants to eligible individuals who will fill in the gaps in basic and applied sciences. The beneficiaries are graduate of BS/MS degree in basic and other applied sciences and mathematics.									
	- Engineering Research and Development for Technology (ERDT) Program	With the government's commitment to increase and enhance competitiveness of the country's human capital on research and development, the Engineering Research and Development for Technology Program was established with the aim of developing a critical mass of MS and PhD graduates in engineering and related courses. The beneficiaries are graduate of BS/MS degree in engineering or related field	1,433	1,629	1,750	2,017	2,459	3,353	3,623	3,809	
	DOST Human Resource Development Program (HRDP)	The implementation of the DOST Human Resource Development Program is in pursuant to DOST Administrative Order Nos. 009 s. of 2003 and 00s s. of 2005. For the young scientist to be relevant, technically qualified/competent to undertake research and keep abreast with the fast changing new and emerging technologies, the DOST needs to capacitate and develop its regular staff for a more effective and efficient delivery of the various S& T programs by giving opportunities for further higher studies and specialized trainings. The DOST Human Resource Development Program – Degree Program Component was handled by SEI from DOST effective April 2013 through DOST Administrative Order No.006 s. of 2012 as amended by DOST AO No. 001 s. of 2013	786	1,011	1,000	1,090	1,264	1,296	1,275	1,417	159
	Filipino Patriot Scholars Program	The Filipino Patriot Scholars Program was conceptualized in February 2016 with the aim of fostering patriotism among DOST-SEI scholars and instilling in them the core values of professional excellence, social responsibility, and servant leadership and to harness their potentials towards inclusive national development.	-	-	-	1,144	2,340	4,069	4,412	2,880	
	Bangon Marawi S&T Human Resource Development Program	The Bangon Marawi Program is considered an immediate response of the DOST-SEI in addressing the administration's call to help rebuild and rehabilitate Marawi's human and social infrastructures, particularly in the S&T human sector.	-	-	-	248	248	454	309	245	
	Foreign Scholarship Program	The Foreign Scholarship Program aims to provide master's and doctoral degrees in specialized priority fields in science and technology to develop a pool of high quality human resources in science and engineering who will contribute to the country's global competitiveness and economic development; provide opportunities to talented and deserving students to study and obtain MS and PhD degrees in science and engineering in reputable institutions abroad; and upgrade the country's research and technological innovation capabilities in the area of advanced sciences and emerging technologies.	-	-	27	81	86	98	72	183	
	DOST Scholarship Offerings for ASEAN Researchers at Cambodia, Lao PDR and Myanmar (CLM)	The Scholarship Offerings for ASEAN Researchers (Cambodia, Lao PDR and Myanmar-CLM) is exclusively offered to the citizens of the three countries. DOST-SEI led in the coordination with the embassies of CLM as well as with the delivering institutions.	-	-	-	-	13	26	34	32	

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S&T Promotions and Youth Programs	Science Explorer	A mobile interactive learning facility that features exciting hands-on learning through fun and easy science activities. The bus contains laboratory facilities, audio-visual equipment, interactive exhibits, and various learning materials that will be helpful in facilitating learning to the students. It intends to bring to under-equipped schools a mobile interactive science laboratory that would enable students to conduct hands-on experiments and discover the wonderful world of science.	3,558 elementary and high school students	2,545 elementary and high school students	4,287 elementary and high school students	5,673 elementary and high school students	4,674 elementary and high school students	4,314 elementary and high school students	RadyoEskuwela produced 20 radio episodes, while 15 videos were filmed for Tuklasiyensya. Both series have been airing weekly since October 2020.	10,000 views of RadyoEskuwela and Tuklasiyensya Episodes	Yearly implementation with different target participants every year. Projects are completed every end of the year.		
	Science Camp	Collaborative project with research and development institutes, professional organizations and other government institutions. The overall objective is to increase the pool of S&T human resources by nurturing talented and gifted students in science through mentoring and incentive programs approach.	60 high school students and teachers	60 high school students and teachers	60 high school students and teachers	402 high school students and teachers	60 high school students and teachers	60 high school students and teachers	Conceptualized/finalized the contents to be included in the Climate Science Youth Camp Manual for Teachers and Students in 2020	Youth Science Camp Manual			
	Expanding the Reach of the DOST Scholarship Program to Priority Municipalities	In cooperation with the Department of Education (DepEd), DOST Regional Offices, Provincial Science and Technology Centers, local government units, and partner institutions, target municipalities will be engaged in a massive communication campaign promoting the DOST-SEI Undergraduate Scholarship Program, inspiring students to take up science courses in the college level, and convince qualified students to apply for the DOST-SEI Undergraduate Scholarship Program. Such campaign shall use school-based, community-based and media-based platforms to saturate the target municipalities and eventually "push" qualified students to apply the DOST-SEI Undergraduate S&T Scholarship Program.	679 students and teachers	1,466 students and teachers	850 students and teachers (directly reached by the SEI Push4Science Team)	2,989 students and teachers	3,561 students and teachers	10,528 students and teachers	Deployed promotional materials to media channels, regional offices, scholarship coordinators, and scholars' organization.	2500 students and teachers			
	Philippine Space Science Education Program (PSSEP)	PSEP seeks to create awareness among the students on career opportunities in the various fields of science and engineering including space science that would raise standards and address skill shortages in this discipline. It also highlights space technology applications in critical areas such as disaster mitigation, environment planning and management, industry and food security. It likewise, seeks to establish linkages and partnership with space organizations and institutions for possible assistance and collaboration in space science education programs and projects.	100 high school students and teachers	100 high school students and teachers	210 high school students and teachers	160 students and teachers from Cebu City	-	-	-	-			
	Participation in the Asia-Pacific Regional Space Agency Forum (APRSAF), Water Rocket Competition	The APRSAF serve as an active forum to promote concrete cooperation to address issue on space-related activities that aims to contribute solving problems not only in Asia-Pacific Region but also the rest of the world. It also aims to expand the peaceful uses of space science and technology and their applications for sustainable development.	2 high school students	3 high school students	3 schools represented the country	3 high school students	-	-	-	-			
	Tagisang Robotics: Design, Build and Play Competition	The competition is open to high school students with the goal of enticing them to venture into robotics. In this competition, students create robots that are made to do specific tasks and fielded against each other in a team battle. This competition also develops other skills like planning, cooperative work, organizing and the like.	37 high schools (S&T Oriented, public and private science HS)	-	-	R&D phase for the new platform.		64 public high schools students	Ongoing conduct of R&D on how to reconfigure project mechanics	60 HS students, 15 HS teachers			
	Imake.Wemake	The project seeks to unleash the creativity of young Filipinos aged 17-19 years old to enable them to discover their potentials and learn the process of using innovation to achieve a particular purpose. It is packed with competencies such as project proposal making, communication skills, critical and analytical thinking, engineering and technical skills, and the value of risk and failure analysis. More than anything it is founded on the values associated with creating, collaborating, and innovating to come up with a product, an application, or a process.	-	-	19 schools participated and submitted their project proposals	19 schools participated and submitted their project proposals	16 schools participated and submitted their project proposals	15 schools participated and submitted their project proposals	45	120			
	Indie-Siyensya Film-Making Competition	Indie-Siyensya is a science film-making competition organized by the Science Education Institute of the Department of Science and Technology (DOST-SEI) as a pioneering step on bringing science closer to the youth and the general public through film. The use of film-making in communicating scientific concepts and highlighting the values of research will spark the creativity of the youth in learning the processes involved in documenting researches and other topics.	-	-	A total of 16 film concepts submitted. 129 attendees from secondary and tertiary schools	A total of 62 film concepts submitted. 177 attendees from secondary schools	More than 300 film concepts from various regions in the country.	1,197 students and teachers	52	100			

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S&T Promotions and Youth Programs	Philippine Mathematics Olympiad (PMO)	PMO is the oldest and most prestigious nationwide mathematics competition among secondary school students. It is designed to select the best students in mathematical problem solving in the Philippines. This is to be done through three levels of competition beginning from the elimination stage, followed by the area stage	3,500 high school students from selected secondary schools in the country are expected to join in the competition	3,500 high school students from selected secondary schools in the country are expected to join in the competition	4,533 high school students from selected secondary schools in the country are expected to join in the competition	4,678 high school students from selected secondary schools in the country are expected to join in the competition	4,517 high school students from selected secondary schools in the country are expected to join in the competition	4,517 high school students	4,649 high school students	4,800 high school students	Yearly implementation with different target participants every year. Projects are completed every end of the year.
	Philippine Robotics Olympiad (PRO)	PRO is an annual educational event, which was participated by elementary and high school students from private and science high schools nationwide. It aims to encourage students to develop and engineer new designs that will complement the current robotic system.	700 elementary and high schools students joined the PRO	700 elementary and high schools students joined the PRO	-	-	-	-	-	-	
	BPI-DOST Best Project of the Year	The Best Project of the Year is an award given by the BPI Foundation and the DOST through SEI, in recognition of outstanding students who conduct research in mathematics, physics, chemistry, engineering, computer science, biology and environmental science. The projects are judged according to relevance and impact to knowledge advancement, viability for commercial production and marketability, originality and uniqueness of study, and adherence to scientific soundness.	College students from Ateneo de Davao University, Ateneo de Manila University, De La Salle University, Saint Louis University, Siliman University, University of San Carlos, University of Santo Tomas, University of the Philippines - Diliman, University of the Philippines - Los Baños, Xavier University.								
	Philippine Participation to International Mathematics Olympiad (IMO)	IMO is a competition that allows high school students to reach the pinnacle of excellence and achievement in mathematics. The Institute provide financial support to delegates while other technical and management support came from Mathematical Society of the Philippines.	Participation of three (3) high school students with one (1) team leader and one (1) deputy team leader to the 55th IMO	Participation of six (6) high school students with one (1) team leader and one (1) deputy team leader to the 56th IMO	Participation of six (6) high school students with one (1) team leader and one (1) deputy team leader to the 57th IMO	Participation of six (6) high school students with one (1) team leader and one (1) deputy team leader to the 58th IMO	Participation of six (6) high school students with one (1) team leader and one (1) deputy team leader to the 59th IMO	Participation of six (6) high school students with one (1) team leader and one (1) deputy team leader to the 60th IMO	Participation of six (6) high school students with one (1) team leader and one (1) deputy team leader to the 61st IMO	Participation of six (6) high school students with one (1) team leader and one (1) deputy team leader to the 62nd IMO	
	Philippine Participation to Australian Mathematics Competition (AMC)	AMC is an annual international correspondence mathematics competition administered by the non-profit Australian Mathematics Trust (AMT) in cooperation with the Mathematics Trainers' Guild (MTG) of the Philippines, SEI-DOST and the DOST Regional Offices. The Institute provide technical and management support to the participants.	3,400 students nationwide took the examination	3,400 students nationwide took the examination	4,354 students nationwide took the examination	4,354 students nationwide took the examination	-	-	-	-	
	Philippine Participation to World Robot Olympiad (WRO)	WRO is a global robotics competition for young people. The World Robot Olympiad competition utilizes Lego Mindstorms manufactured by LEGO Education. First held in 2004 in Singapore, it now attracts 1000 participants from 32 countries. The competition consists of two different categories. In the regular category, teams must assemble robots that can solve a specific problem. In the open category, teams must present designs for robots, based on a given theme. The contest is also conducted in three different age groups: elementary, junior and senior.	Participation of four (4) students elementary and high school first place PRO winners to the 2014 WRO	-	-	-	-	-	-	-	
	Youth Excellence in Science (YES) Award	It is a DOST award for exemplary achievement of the youth in the fields of science and mathematics. Recipients of this award are Filipino students who win gold, silver and bronze medals in the individual or team category in international science and mathematics competitions. They are considered to be a value to DOST's quest for excellence and shall be included in the roster of honorable young men and women of science.	447 elementary and high schools students were given the YES award	468 elementary and high schools students were given the YES award	831 elementary and high schools students were given the YES award	1,200 elementary and high school students were given the YES award	1,469 elementary and high school students were given the YES award	1,631 elementary and high school students	1,632 elementary and high school students	2,000 elementary and high school students	
Researches/ Studies/ Surveys in Science Education and S&T HRD	Tracer Study of DOST Scholars	The study is aimed at tracking the scholar-graduates of the various scholarship programs being implemented by the SEI-DOST, with the ultimate objective of determining the impact of these programs to individual and/or national development. This will provide the agency with a clear view of how the produce of its science scholarship programs are doing in the real world and improve the programs it is presently undertaking.	Policy-makers and legislators may use the results of this study as basis and empirical evidence in crafting policies and laws related to upholding the human resources in S&T.								
	Migration of S&T Human Resources	The study is undertaken to come up with a baseline information to measure the outflow of S&T human resources to foreign countries and better understand the factors contributing to the gap in the supply of S&T human resource in the country.	Policy-makers and legislators may use the results of this study as basis and empirical evidence in crafting policies and laws related to upholding the human resources in S&T.								

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Researches/ Studies/ Surveys in Science Education and S&T HRD	Human Resources in S&T (HRST) in the Philippines	This project is a benchmark study on establishing estimates of the stock of Human Resources in Science and Technology (HRST) in the country using secondary/ census data from NSO. Together with the data from the Migration studies, a better picture of the status and supply of HRST in the country will be obtained.	Policy-makers and legislators may use the results of this study as basis and empirical evidence in crafting policies and laws related to upholding the human resources in S&T. Also, researchers and academicians who are conducting a similar study can use this as reference or related study.								Yearly implementation with different target participants every year. Projects are completed every end of the year.
	Philippine Facts and Figures: S&T HR Indicators	This project intends to provide a handy reference containing recent statistics on indicators of S&T human resource in the country, such as enrollment in and graduation from S&T courses, S&T scholarship beneficiaries, migration data, R&D involvement, and other data.	Policy-makers and legislators may use the results of this study as basis and empirical evidence in crafting policies and laws related to upholding the human resources in S&T. Also, researchers and academicians who are conducting a similar study can use this as reference or related study.								
	The Use of ICT in STEM Teaching in Selected S&T-Oriented High Schools in the Philippines	The project aims to establish baseline information on how ICT is being used in the teaching of STEM subjects in selected S&T-oriented high schools.	-	Policy-makers and legislators may use the results of this study as basis and empirical evidence in crafting policies and laws related to STEM education.				-	-	-	
	The Future S&T Human Resource Requirements in the Philippines: A Labor Market Analysis	The research aims to develop a comprehensive report on the future S&T job requirements in the Philippines to inform policy related to S&T Human Resource Development.	-	-	-	-	-	Policy-makers and legislators may use the results of this study as basis and empirical evidence in crafting policies and laws related to upholding the human resources in S&T.			
	A Project on Perception of Science Among Filipino Grades 7 and 10 Students in the Philippines	The project aims to determine and inquire into the perception and appreciation of Science by Grades 7 to 10 students using qualitative research methods. Results of this project will pave way for the development of a communication and media plan to promote science among Filipino Grades 7 to 10 who are potential supply to S&T human resource development.	-	-	-	-	-	-	-	Policy-makers and legislators may use the results of this study as basis and empirical evidence in crafting policies and laws related to upholding the human resources in S&T.	
STEM Trainings	Support/Participation to Trainings in Science Education	The project consists of different activities that will enhance the teaching of science and mathematics from elementary to tertiary levels through specialized training programs for teachers and student, conference, seminars, round table discussions, workshops. SEI will continue to benchmark best practices on S&T HRD and skills development from other countries that are applicable to our own setting through attendance in local and international conferences training and other research programs in science education.	Students and teachers from elementary, secondary and tertiary schools.	-	-	-	-	-	-	-	
	Science Teacher Academy for the Regions (STAR)	The teacher's academy is multi-faceted scientific institution committed to enhance the capabilities of science and mathematics teachers through the implementation of specialized training programs; and, provision of a nurturing environment for their professional and personal growth. The Academy will conduct formal and informal trainings in content, pedagogy and innovative technologies. It will also offer extension services such as research mentorship, consultancy, and other technical services. It may also pursue collaborative research activities with other organizations. The said services will be delivered by S&T experts called "Fellows".	220 science and mathematics teachers	482 science and mathematics teachers	545 science and mathematics teachers	1,349 science and mathematics teachers	1,127 science and mathematics teachers	1,190 science and mathematics teachers	1,008 science and mathematics teachers	2,600 science and mathematics teachers	
	Roadmap to Excellence: Developing Globally Competitive STEM Programs	The project aims to upgrade the capacity of faculty members of partner universities and DOST-SEI staff through exposure to global practices in STEM education; integrate best practices and innovations in STEM education in the context of partner universities' and DOST-SEI's thrusts and goals; and provide opportunities for international collaboration and research of STAR trainers.	-	-	11 science and mathematics trainers of STAR partner universities together with 5 SEI officials and staff	14 selected science and mathematics faculty members from 6 partner state universities	-	-	-	-	
	Strengthening the Capacity of Science and Mathematics Teachers on Disaster Risk Reduction Management	The project intends to: design, develop and conduct a training course for teachers and school administrators on disaster risk reduction and management; enhance scientific knowledge of teachers on natural disasters and climate change; and communicate/transfer knowledge to students to help them cope up with disasters should it occur.	35 selected science and mathematics teachers from the Division of Taguig and Pateros	99 selected science and mathematics teachers from the Division of Taguig and Pateros	109 selected science and mathematics teachers	48 selected science and mathematics teachers from the DepEd Divisions of Tuguegarao City and Cagayan Province	78 senior high school teachers	48 science and mathematics teachers	-	50 STEM Teachers	
	Establishing Linkages with Academe, Industry and Research Institutions for Capacity Building in STEM Education	The project is composed of various activities such as support to the participation of the country in international studies like TIMSS or Trends in International Mathematics and Science Study in science and mathematics education; network with education leaders and organizations; provide access to international meetings and fora for STAR trainers and/or program implementors; and acquire learning resources in science education.	-	-	-	40 STAR trainers, and 18 DepEd teachers from various divisions of Metro Manila	70 STAR trainers and teachers	STAR trainers and teachers	-	350 Teachers	

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STEM Trainings	Mindanao Opportunities for Vitalized Education and Onward Nurturing (MOVE ON)	Through mentoring, the project hopes to nurture and maintain scholarly/educational support to pupils in Muslim dominated elementary schools to have a better chance at quality education starting with them qualifying in the National Competitive Examination of the PSHS System and eventually enrolling in the PSHS-CMC in Lanao del Norte.	Pupils from 10 top NCE performing Muslim elementary schools in Lanao del Norte, Region X; Lanao del Sur, Marawi City and Maguindanao in ARMM	-	-	-	-	-	-	-	-	Yearly implementation with different target participants every year. Projects are completed every end of the year.
	Strengthening the Capacity of Future Pillars in Science and Mathematics Education	The project aims to address the need to develop new generation of science and mathematics experts to serve as future pillars in S&M education. Participants are selected DOST-SEI scholar-graduates, faculty of CODs, as well as PhD students in their dissertation stage, faculty members doing R&D, and science education faculty members.	27 science and mathematics teachers	-	-	-	-	-	-	-	-	
	Enrichment Program to Improve the Quality of Feeders to S&T Human Resource Development	This is an intervention project initiated by the Institute to improve the performance of schools in various municipalities that have been sending their top 5% students in the DOST-SEI Undergraduate Scholarship Examination through the years (based on Undergraduate Scholarship data of Examinees and Qualifiers from 2008 to 2011) but were not able to qualify in the said scholarship program. Initially, a review class/ mentoring sessions for fourth year high school students in various clusters of municipalities/schools nationwide shall be conducted to prepare them for the S&T Undergraduate Scholarship Examination. Review materials/modules will be developed by the experts while a pool of PSHS science and mathematics teachers will act as the students' reviewers and mentors. The general objective is to increase the number of qualifiers in the Scholarship Examination.	1,311 graduating high school students	-	-	Development of review materials	Pilot tested review materials to 16 schools nationwide for the graduating Grade 12 Senior High School Students, Parents, and Science and Mathematics (S&M) Teachers	Developed the review materials and conducted trainings	-	-	-	
	Training for Non Major Science Teachers on Content and Pedagogy	The project aims to develop modules in content and pedagogy for teachers who are teaching Biology without major in the subject and conduct teacher training on the modules developed to the said teachers.	-	-	30 Grade 8 teachers from Region IV-A	Grade 8 pupils of the 70 Grade 8 trained science teachers and their schools in Region I, II and V.	48 Grade 8 teachers from Region V	48 teachers	48 teachers	80 teachers	-	
	Training of Alternative Learning System (ALS) Learning Facilitators (Mobile Teachers)	The project caters to elementary ALS learning facilitators (mobile teachers) who will be trained to teach certain basic science and mathematics concepts to out of school children who did not have access to formal basic education.	-	-	-	ALS learning facilitators from school-based and/or community-based ALS classes in Taguig-Pateros (TAPAT) Division	43 mobile teachers and learning facilitators from DepEd Division of Taguig and Pateros	-	-	-	-	
	Training Workshop for Science and Mathematics Teachers on Different Forms of Assessment	This is a training-workshop on different forms of assessment to be given to selected thirty (30) Science Teachers from the National Capital Region currently teaching under the K-12 Curriculum.	-	-	-	32 master teachers, teaching mathematics from 16 DepEd school division in NCR	32 master teachers, teaching mathematics from 16 DepEd school division in NCR	-	-	-	-	
	Capacitating Scholar-Graduates with Pedagogical Skills	Training-workshop consists of series of lectures, lesson planning, hands-on activities and demonstration teaching to expose and give scholar-graduates the experiences to make teaching and learning easier.	-	-	-	27 JLSS scholar-graduates of 2016 and 2017	42 JLSS scholar-graduates of 2017 from Region III	80 scholar-graduates	33 scholar-graduates	80 scholar-graduates	-	
	Teaching Science to Indigenous Pupils	This is a training of elementary teachers coming from schools where most pupils, if not all, are indigenous. It aims to train teachers on how to teach science concepts to indigenous pupils using appropriate materials available in the local environment and ideas that are culture-based and familiar to them.	-	-	IP teachers and learners in Grades 4-6					24 teachers	-	
	Training of Teachers from Small Private Schools	This project proposes to train teachers from small private schools in content and pedagogy. The training design will depend on the result of a survey on needs assessment and/or consultation with stakeholders of private schools.	-	-	-	-	55 mathematics teachers in Grades 4- 6 benefited from the training	30 teachers	50 teachers	80 teachers	-	

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STEM Trainings	Projects for PWDs	A project specifically designed to help teachers to be more effective in teaching science to students with disability.	-	49 elementary and secondary teachers	-	-	-	-	-	-	Yearly implementation with different target participants every year. Projects are completed every end of the year.
		Science Amidst Silence	-	-	21 elementary and secondary science teachers and students	28 elementary and high school science teachers and visually impaired students	36 elementary and high school science teachers and visually impaired students	-	-	-	
		Blind Kids Do Science Too	-	-	-	-	-	39 teachers	34 teachers	20 teachers	
	Disability-Inclusive Trainings in Science Education	-	-	-	-	-	-	-	-		
	Science Education to Strengthen the Capacity of Older Persons	This is a seminar that consists of a series of lectures, demonstrations, workshops and activities associated with growing old. Participants are science and mathematics teachers who are 60 years old and above. Health professionals from government and non-government agencies will serve as resource persons.	-	-	50 senior citizens from Batangas City	48 senior citizens from the municipality of San Ildefonso, Bulacan.	111 senior citizens and volunteers from Taguig City and Quezon City	74 senior citizen teachers	-	60 teachers	
Innovative Approaches in Science Education	Mobile IT Classrooms (MITC)	A customized bus equipped with laptop computers, interactive and audio-visual learning materials in science and mathematics. The MITC units are deployed in selected regions to promote information technology awareness through hands-on computer and other interactive learning activities to elementary and secondary students.	Elementary/high school students and teachers from Regions V, VII and CARAGA	Elementary/high school students and teachers from Regions V, VII and CARAGA	-	-	-	-	-	-	
	Development of Interactive Courseware for Elementary Schools	The project aims to develop a learning material that will run on a PC tablet-like hardware. The materials are not presented in static form, like printed books but graphics and movement are incorporated therein making them interactive meant to enhance and facilitate learning.	Elementary students/teachers	-	-	-	-	-	-	-	
	Development of Courseware for Secondary Schools	These are science and mathematics courseware that can be used as enrichment materials to teach the subjects in the secondary and elementary schools. The project aims to disseminate computer-aided instructional (CAI) materials to improve the quality of science and mathematics teaching.	Secondary students/teachers	-	-	-	-	-	-	-	
	Search for Innovative Practices in Managing Large Classes	The project addresses the current problems of large classes, where the number of students would reach 51 or more per class, particularly in Metro Manila and in some other areas of the country. The search was open to all public and private high schools with large (51 to 70 students) and extra large (71 and above) classes to identify which best practices help in managing large and extra large classes which should result to effective teaching and learning of science and mathematics.	9 selected high schools	-	-	-	-	-	-	-	
	Hands-on Teaching and Learning of Science (HOTS)	The project will showcase the use of inquiry approach in teaching of Grade 3 Science with hands-on learning activities and integration of technology like computer notebook, DLP projector, probeware, science and technology courseware, Internet and science equipment housed in a mobile laboratory cart.	Three (3) regular elementary schools in Taguig City	Ten (10) regular elementary schools in Taguig City	113 Grade 4 teachers from 29 schools in the DepEd Division of Taguig City and Pateros	Project Evaluation Stage		-	-	-	
	InnoBox: Search for the Most Innovative Non-Digital Teaching and Learning Resources in Science	The InnoBox is a competition for elementary and secondary teachers aim to design and develop innovative resources in science in non-digital format. In this project, innovative resource material is defined as any educational material used in teaching and learning of science which may be a new resource material or can be an existing material but has a new usage.	-	-	-	76 project proposals from various schools received by the DOST-SEI	76 project proposals from various schools received by the DOST-SEI	142 project proposals from various schools received by the DOST-SEI	Virtual Awarding Ceremony with 534 registrants	100 teacher proponents	
	Eureka! Science on the Go	It is a mobile science classroom/laboratory that showcases hands-on teaching/learning activities and state-of-the art education technology like computers, internet facility, use of sensor in collecting data, courseware and robotics programming for teachers.	-	-	-	15 teachers acquired skills in using the interactive courseware for Grade 2 Mathematics	-	-	-	-	

Programs/ Activities/ Projects	Project Title	Brief Description	Beneficiaries								Status
			2014	2015	2016	2017	2018	2019	2020	2021 Target	
Innovative Approaches in Science Education	Access to Resources and Innovations in Science Education	An interactive smart classroom and training facility which provides offline and online learning and training resources on science and mathematics composed and equipped with new and emerging technologies.	-	Launched the 21st Century Model Classroom.	1,889 students, teachers, education superintendents and supervisors, stakeholders, scholars, government organizations and NGOs visited and benchmarked the 21st Century Model Classroom	1,715 students, teachers, education superintendents and supervisors, stakeholders, scholars, government organizations and NGOs visited the 21st Century Model Classroom	1,309 students, teachers, education superintendents and supervisors, stakeholders, scholars, government organizations and NGOs	1,720 students, teachers, education superintendents and supervisors, stakeholders, scholars, government organizations and NGOs	4,456 students, teachers, education superintendents and supervisors, stakeholders, scholars, government organizations and NGOs	500 students, teachers, education superintendents and supervisors, stakeholders, scholars, government organizations and NGOs	Yearly implementation with different target participants every year. Projects are completed every end of the year.
	DOST Courseware Mobile Application (CMAApp)	A mobile application of the locally-produced DOST courseware for elementary and secondary levels that can be accessed through smart phones and tablets.	-	-	Teachers and students in various schools nationwide.						
	Development of Storybooks	The project aims to develop at least 10 simple and easy to understand storybooks that feature selected topics in science and mathematics education intended for six (6) to eight (8) years old children.	-	-	-	-	Printed the storybooks	Printed and disseminated the storybooks	Printed and disseminated the storybooks	Disseminate storybooks	
	Science and Mathematics Applications and Other Related Technologies (SMART)	Science and Mathematics Applications and other Related Technologies (SMART) is a collection of applications both for mobile devices and personal computers produced by the Science Education Institute which features the DOST Courseware in science and mathematics, Siyensyabilidad, Strategic Intervention Materials for Teaching with Augmented Reality (SIMATAR) and other related technology-enabled applications that could be downloaded, saved and operated through various platforms such as MS Windows, Google Android and Apple IOS-running devices.	-	-	-	-	-	-	-	Teachers and Students	
	Video Storytelling	This project will capture, via videos, all the storybooks developed by DOST-SEI in 2018 and 2019. These videos will be uploaded to social media sites (e.g. Facebook, Twitter, etc.) and Youtube.	-	-	-	-	-	-	-	Age 3-6 Years old Pupils, Teachers, Parents, Day Care Centers/Schools	
	Virtual Laboratory Application in Science (VLAS)	The virtual laboratory (VL) is a simulated learning environment that allow students to have a complete experience of online laboratory experiments without going into a physical laboratory. Similar to the traditional laboratory, the virtual laboratory simulations support science teaching through demonstration of theoretical concepts, helping students familiarize scientific apparatus, and helping them understand the specific method. The VL also allow students to perform and repeat experiments without any risk of danger.	-	-	-	-	-	-	-	Secondary teachers and students	
	Serious Educational Games for STEM Learning	Serious games combine learning strategies, knowledge and structures and game elements to teach specific skills or concepts. This project plans to combine select mathematics concepts into the concept of serious games thus giving students an opportunity to learn math in a fun way, even at school or at home.	-	-	-	-	-	-	-	Math Teachers and Students	