Tentative ICT projects of Thailand-Japan Student ICT Science Fair 2016

21-23 December 2016

At Princess Chulabhorn Science High Schools Chonburi

PCSH	Topic	Group	Concept	Objective	Student's name	Advisor's name	ICT Contact Person
Chiang Rai	1. Development of Teaching Materials through Virtualization Technology (Augmented Reality: AR)	Software	To create the media teaching about animal cells analyzed by the image analysis software and connected devices such as mobile phones, tablet, or webcam. Photorealistic will be rendered on the computer screen, mobile phone or other display devices. The media appeared on the screen will have all the characteristics of three-dimensional images, sound, and animation.	To study and create the media teaching by the image analysis software (AR-CODE).	1.Ms.Apitsara MoonJoy 2.Ms.Chanitsiree Sitthipang 3.Ms.Tianruetai Srinuan	1.Mrs.Sunee Yamee 2.Mrs.Manatchanok Tamwong	Mrs.Manatchanok Tamwong manatchanok@pcccr.ac.th +66-85-051-5727
	2. Applications to Help Getting Dressed Everyday	Applications	To make an application to help choose the clothes in the closet of users, so the users do not need to waste time to try it.	To study and make an application for mobile to help choose the clothes in the closet of users.	1.Ms.Jomkhuan Waiwong, 2.Ms.Pornnapat Loboon, 3.Ms.Tawanluk Jinasee	1.Mrs.Manatchanok Tamwong 2.Mr.Chawalit Tijanda 3.Mr.Wasin Mongkonsan	

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	3. The Application (Raspberry PI) to Control Water System	IoT	It is from the concept of the Internet of Thing that was used to control various devices. Thus we are interested in preparing an application to control water sprinkler system in the lawn of the school. It can be ordered through the online application to turn on or turn off the water distantly.	To study technology: Internet of Thing (IoT) and apply Raspberry Pi to control water system via the Internet.	1.Mr.Poomin Jantalert	1.Mrs.Manatchanok Tamwong, 2.Mr.Pratcharat Jaima	
Phitsanulok	1. Control and report The use of home electronics	IoT	The use of electricity increases. Control and report on the use of electricity at home through the cloud to make adjustments and household electronics have been the point. Reduce the cost of electricity.		1.Mr.Poompathai Jansriwong 2.Mr.Kritsada Koomtalod 3.Mr.Suppaluk Arreerob	1.Mr.Putthaporn Inorn	Mr.Putthaporn Inorn putthaporn@pccpl.ac.th +66-81-971-8227

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	2. Find everything	Applications	From living in a dorm many material goods such as bags, shoes, dresses, students often forgotten or left cannot find. This application to facilitate the search.		1.Mr.Teansit Juditprasert 2.Ms.Kaesrinee Atiwongpitak 3.Ms.Kuljila Kamtongkum	1.Mr.Mahaphan Jantakul	
	3. Project Database of PCCPL	IoT	Database project, students of the School Princess Chulabhorn's College Phitsanulok, accessible from the website. The next generation of students to search for information on the other projects.		1.Mr.Weerathon Libsittikul 2.Ms.Nawinda Musikapokod 3.Ms.Nattanit Kosinanon	1.Ms.Kannika Jantawong	
Lopburi	1. Media teaching crystalline of solid with a hologram	Applications	We use a hologram as a medium of instruction, the crystal structure of a solid. It is the media that makes it easier to visualize and understand student learning. The future can be adapted to other fields as well, such as the architecture, structure, etc.	1. For the medium of instruction in learning. 2. To be attracted to learning more for children.	1.Mr.Ratchanon Wongyaem 2.Mr.Kiattikun Yingdee	1.Ms.Krittiya Ratchasee 2.Mr.Adirek Saraya	Ms.Krittiya Radchasri kwang_pccl@hotmail.com +66-81-853-2185

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	2. Risk factor & analysis of headache for patient application	Applications	Capability of application is analysis system that help user to keep more information to database and it can process last answer point for question. Try to make system as smart as human. In this study, we involve in headache symptoms that resulted in many risk factor	To create application for help to analysis headaches symptoms by asking information from user to analysis disease	1.Ms.Thamonwan Thongbun 2.Ms.Benyapha Sangwiset	1.Mrs.Duangta Seowaronupan 2.Mr.Adirak Sarayam	
	3. Control on-off the light automatic schedule of classroom use with sensors	Hardware	Control on - off the lights in the proper use of the prescribed schedule. The system turns on the booking classroom. Inside the classroom, a sensor detects a person in the room to lights on.	Order to use technology to save electricity.	1.Ms.Niracha Boonyanaet 2.Ms.Pawithida Aeamphong	1.Mrs.Duangta Seowaronupan	
	4. Vertical garden with automatic water cyclin	Hardware	This project is about planting with vertical garden theory and automatic water cyclin g that we can control quantity of the water and the periods of time in watering.	1. Recycle useless things. 2. We can plant some trees in limited area. 3. We can appropriately control the quantity of the water and the periods of time in watering.	1.Ms.Pitchayapa Sarasalin 2.Ms.Saranporn Arsaibun	1.Ms.Krittiya Radchasri	

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	5. Warning devices Forgot your children or pets in the car with the board arduino	Hardware	We use camera trapping heat waves to scan for heat waves of creatures trapped in the car to work is if the camera captures heat wave. Suddenly, the scan showed a heat wave transmitter sms text message is sent to the vehicle owner. It will be sent a warning and a shake of the phone's unique identity. And this message will be sent every 5 or 10 minutes, etc. It would be beneficial for various aspects such as transport schoolchildren, parents of a child or pet (family car) and passenger vans.	1. To reduce the problem of stranded children on school buses / passengers. Which is why it may make children / passenger. Died from lack of oxygen 2. To reduce the problem of stranded pets. (Endothermic), which may cause the pet. (Endothermic) died from lack of oxygen. 3. To develop a prototype of this innovation for the next time.	1.Mr.Patipan Chaichat 2.Mr.Wachirawit Rangdang	1.Mr.Adirak Sarayam	

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Loei	1. Android Application with Location Based Services in PCC LOEI	Applications	Android application that provides location information by using various criteria Location Based Services School Princess Chulabhorn's College Loei, where the data is in the form of text, images or multimedia. Including a map and shows the current location on a map..	Developing an application on android phone using an Android SDK, Java language, XML, GPS and Location Based Services.	1.Mr.Jirayu Moontawin 2.Ms.Thanyaluk Kaewon 3.Ms.Siripasson Sanglap	1.Mr.Pichet Kanchai 2.Mr.Tawatchai Janbutsa	Mr. Pichet Kanchai pichet108@hotmail.com +66-86-236-5871
	2. Android Application for Automatics Drone Control	Applications	Android Application for Automatic Drone Control navigation, routing, using GPS coordinates via a wireless WiFi.	Developing an application on android phone using an Android SDK, Java language, XML, GPS and WiFi data communication.	1.Mr.Thananan Amranon 2.Mr.Supheerapat Kulabmon	1.Mr.Pichet Kanchai 2.Mr.Tawatchai Janbutsa	

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	3. Smart Piggy Bank	Robotics	Smart Piggy Bank (Piggy Bank Intelligent) amounting to display, clock, alarm, a security password, Interactive user using light and sound. You can recharge it.	1. Develop a piggy bank Intelligent using Arduino Microcontroller. 2. Learn how to count the coins to the Arduino Microcontroller. 3. Learn to use LCD, LED 8x8, Module and the sound of the Arduino Microcontroller. 4. Learn how to use a Lithium-ion battery and their applications.	1.Mr.Natnicha Pongpittayathorn 2.Ms.Thanwarat Hamwong 3.Ms.Sirithorn Supolsang	1.Mr.Tawatchai Janbutsa 2.Mr.Pichet Kanchai	
	4. Stair Climbing Robot (robotics for loading up the stairs).	Robotics	Robot loading up the stairs of the Arduino Microcontroller and Sensor in operation	1. Learn how to build a robot. Use the gear motor and Arduino Microcontroller. 2. Sensor applications to help robots do the task successfully.	1.Ms.Siripansa sarnkhong 2.Ms.Yasumin Had 3.Ms.Arraya Hamkamhag	1.Mr.Pichet Kanchai 2.Mr.Supachai Daungkamnoy	
	5. Drone by Arduino Microcontroller	Robotics	Drone developed by the Arduino Microcontroller Which can work using GPS coordinates and Sensor detects the crash barrier. And is	1. Drone developed by the Arduino Microcontroller. 2. To study the structure	1.Mr.Chanin Srisathean 2.Mr.Piyapath Yimsara	1.Mr.Pichet Kanchai 2.Mr.Supachai Daungkamnoy	

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			controlled via a WiFi network using the Software in the operating system Android.	and working methods of the Drone. 3. Sensor and GPS was used to control the Drone. 4. Use technology, wireless communications (WiFi) to control the Drone			
Burirum	1. Drone for Agriculture	Robotics			1.Mr.Kranarong Tomkotr 2.Mr.Tammapon Numsarapatnuk	1.Mr.Pira Boonchalad 2.Mr.Sakolkiet Khantong	Mr. Pira Boonchalad Pirapong.bun@gmail.com +66-86-469-7980
	2. Mosquito Trap	Hardware			1.Ms.Jirapat Butkongdee 2.Ms.Chattida Phankitjarern 3.Ms.Panmanee Banyam	1.Mr.Sakolkiet Khantong 2.Ms.Pinwarat Sakaeo	
	3. Mowers Automatic of Solar	Robotics			1.Mr.Rotjaret Kasinram 2.Mr.Pumnapat Teptani 3.Mr.Jettapol Polngam	1.Mr.Pira Boonchalad 2.Mr.Supot Arunno	

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	3. Marigold seeds sowing machine	Robotics			1.Ms.Thiyada Thupandung 2.Ms.Patcharirat Nantidechapan 3.Ms.Hattaya Innok	1.Mr.Pira Boonchalad 2.Ms.Somjit Saribut	
	4.Instruction Development about Conic section with Augmented Reality Technology	Applications			1.Ms.Jarukan Jeenyoo 2.Ms.Piyada Thongtem	1.Mr.Payungsak Posai 2.Mr.Preecha Salangam	
Mukdahan	1. The Melody of Origins	Software	The Melody of Origins game development was the mediation-training rhythm game development that is desired to help user remembering atomic number and their properties such as metallic or non-metallic, atomic number and atomic mass. The story we concerned to a little world evolution that we have to collect elements, which is collected by playing the game that we have to tap on the correct element on the screen, to make the world be completed	Software Game	1.Mr.ChaChrist Burthong 2.Mr.Sahatsawut Boonsri 3.Mr.Witsanu Jampreecha	1.Mr.Khanchai Wongsit 2.Mr.Pithak Poomdonming 3.Mr.Tanabath Kongkaew	Mr.Pithak Poomdonming p.pithak@pccm.ac.th +66-98-864-6379

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			(Civilized world). We desired to make the game about the periodic table will be more fun, included attractive story and challenging stage, and it will be another way to learn about the periodic table. This game works very well on x86-64 devices.				
	2. Fractions Calculator	Software			1.Mr.Pracha Pomtown 2.Ms.Patrasuda Palajan 3.Ms.Kanokrath Maneechot	1.Mr.Pithak Poomdonming 2.Mr.Khanchai Wongsit 3.Mr.Tanabath Kongkaew	
	3. Applied Microcontroller And Communication mesh topology For Wilderness .	IoT			1.Mr.Yanapatra Nikomrak 2.Ms.Kolanan Lapanan	1.Mr.Pithak Poomdonming 2.Mr.Tanabath Kongkaew 3.Mr.Khanchai Wongsit	
Phathum thani	1. Study and Develop Virtual Reality Princess Chulabhorn's College Pathumtani map via Website	Applications	The extent of Princess Chulabhorn's College Pathumthani is large service area that cover 6 provinces.In globalization era Internet is an useful tool for effective	1. To study and develop Virtual Reality Princess Chulabhorn's College Pathumthani website. 2. To study user's complacency on Virtual	1.Mr.Sorasit Tatitaisakul 2.Mr.Panupong Homkrai 3.Mr.Pitak Somyen	1. Mr.Theerakarn Pakorn Sanso	Mr. Adirek Sanyakean adireks@gmail.com 088-5991469

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			communicate. So the manipulator create this project for those interest to admire reality environment.	Reality Princess Chulabhorn's College Pathumthani website.The representative sample for this project is 30 students from Princess Chulabhorn's College Pathumthani of 2015 academic year.			
	2. The Collect Waste Robot.	Robotics	Nowadays, the pollution problem in Thailand are increase and make many trouble to each people. They are having bad quality of life which effect from pollution in city and countryside. The important problem about pollution is from waste in household. From Pollution Control Department of Thailand (PCD) have a waste situation until 2008 - 2014. Many waste from each	For create a new robot that can collect rubbish. Namely, plastic, paper and metal.	1.Mr.Nattapak Darumas, 2.Ms.impika Hongsawadee	1. Ms. Yupaporn Limsa-nguan	

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			village are happen 26.19 million tons in 2014. There are from Bangkok 15% and other province 85%. Top 5 provinces where happen many waste in Thailand namely are Bangkok (10,800 tons per day), Chonburi (2,398 tons per day), Nakhon Rajasima (2,264 tons per day), Samutprakarn (2,025 tons per day) and Khon kean (1,829 tons per day). The average waste develop ratio is 1.11 kilograms each people. However, there are over abundantly to eradicate. 53% of all are eradicate with correct process. For example, recycle, burn and etc. There is effect from sort out type of waste before put it in a bin that make eradicate process is slow down. So, Project inventor have idea for collect and sort out type of				

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			waste before eradicate with robot. It can help to collect and sort out type of waste to easy and save time.				
Chonburi	1.Jurassic School - Augmented Reality with Drone	Robotics	Dinosaurs are revived in the school using Drone and AR technology. First of all, we create and set up some AR markers in the school and also create 3D graphics of dinosaur. Then the Drone takes off from the grand while taking video and also we receive the video from the Drone by Wi-Fi at the ground. The video is also sent to AR application to analyze, to convert AR markers to 3D graphics of dinosaur and to merge it to the original video. The landscapes of the school where there are a lot of dinosaurs in the original's actual size will be just like Jurassic Park!	To understand the latest technology such as Drone's autopilot technology includes GPS, AR (Augmented Reality) and so on through the project.	1.Mr.Narut Apin 2.Mr.Thachtham Chatchaipan 3.Mr.Tanadol Charuthamrong	1.Mrs.Yupaporn Premkamol 2.Mr.Natsuki Hara	Mr. Chaowalert Ponrat chaowalert@gmail.com +66-87-736-2871
	2. Playing Reality Virtual Chess Online	IoT	Chess is a board game that is widespread popularity in the	To make international reality virtual chess	1.Mr.Pasawee Laearun	1.Mr.Vichien Donram	

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			country and abroad. Playing chess in Thailand is Thail chess. But the most popular chess worldwide is international chess, and nowadays, technology has much more developed. Accordingly, we use both ideas and develop them to be the reality chess online for the people who stay far away can play chess together. So we will develop the international chess for everyone and every nation can play it together. The working of program has the equipment set to play chess online. There are program sets which develop for playing game, webcam, and chessboard .The chess of one player and the chess of the other player which was designed to use by webcam program, the program will interpret the value and show on chess online	online.	2.Mr.Jatupon Thassaboot 3.Mr.Visarut Invisate		

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			program to make their playing more realistic.				
	3. Intelligent Robots Plants	Robotics			1.Mr.Trai Sawasphol 2.Mr.Pakpoom Potinikorn 3.Mr.Tanapon Sirimassakul	1.Mr. Chaowalert Ponrat	
Phetchaburi	1. Application for control lighting in smart room	IoT	When you replace old tradition wall switch to application, you can easily use them to control the lamps of smart rooms by android phone that made by Arduino.	to make application for control lighting in smart room by Arduino	1.Mr.Panitan Phatawagit 2.Mr.Kritsanapong Aumjew 3.Mr.Jirawat than bun	1.Mr.Tsutsumi Junki 2.Mrs.Dujdao Phongsai	Mr.Sivarak Chituthas sivarak03@gmail.com +66-83-900-3975
	2. Producing of Solar Refrigerator from Peltier Cooler	Hardware	According to global warming issue. as we know CFCs is refrigerant which do in Ozone that why we would like to invent Peltier Cooler which has more efficiency than CFCs refrigerant.	to produce Solar refrigerant from Petier Cooler	1.Mr.Theerapong Aiemasa 2.Mr.Tawesub Siripatcharakul 3.Mr.Naphat Bunaumphichaiyakul	1.Mrs.Dujdao Phongsai 2.Mr.Tsutsumi Junki	
	3. Colony Counting Application	Software	Colony count is Application that can assist when counting on agar plates. Counting is done by taking a picture then import images to process with Open Cv by java.	to assists when counting bacterial colonies.	1.Mr.Supaleark luengchaipattana 2.Ms.Shudsama Tasai	1.Mr.Sivarak Chituthas	

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Nakhon Si Thammarat	1. Goods Information Access by QR Code	IoT	The website was created for sport inventory checking. (It can also applies to other cases) QR code can be used for showing stock information through web site and product code on the product directly	To develop website for inventory checking by reading the information from the QR Code.	1.Mr.Poramech Jumnong 2.Mr.Nattawat Dangwilai 3.Mr.Jetsadakorn Tongkasri	1.Mr.Taweewat Sesuwon 2.Mrs.Pornpimol Chomsang	Mr. Taweewat Sesuwan taweewat_se@hotmail.com +66-84-057-4440
	2. Smart drug warning	Applications	The development of the application on the Android operating system for reminding to take medicine. (This application can be applied to remind others in the same pattern. this application will alert by both images and voice.	To develop Alert System for elder to take drugs through Android operating system.	1.Mr.Worawut Rueangsawang 2.Mr.Pattarapon Srimuang 3.Mr.Pongsathorn Supadulchai	1.Mr.Thapanawat Chooklin 2.Mr.Tatsuki Awashima	
	3. Shirt Simulator	Applications	The piece of this project was developed by AR technology (Augmented Reality) it will be applied for Clothes Shop. Marker will look through Webcam or Smart Phone camera for showing 3D clothes model. If the customer are pleased with3D clothes model, they can try the	To develop application for showing 3D clothes fitting by AR technology	1.Mr.Nachawanon Phetcharaporn 2.Mr.Harid Singumnued 3.Mr.Jiradat Khanapkaew	1.Mr.Thapanawat Chooklin 2.Mr.Taweewat Sesuwon	

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			real clothes				
	4. Human Evolution Game	Software	This piece of project is to develop Game for Education by using Game 2D designer technology. It is used for learning about Human evolution by using Game principals for education. The students can be learnt through Game not only reading books. Evolution Era will be divided in the game and proceeded through actors, actresses, and multimedia.	To develop Game for Education by using 2D technology (Human Evolution)	1.Ms.Jidapa Meeboon 2.Mr.Tan Thongruk 3.Ms.Natnaree Ton-Oui	1.Mr.Narit Janmanee 2.Ms.Thassaya Thongsai	
	5. Time warning on Android Operating System.	Applications	The piece of this project was developed to warn about smart phone using on Android operating system. It will warn about playing Games in limited time and it will also warn from soft to hard criterion through message, sound and color of screen. It will also limit some applications on Smart Phone	To develop warning system of smart phone using on Android operating system.	1.Ms.Nattasorn Promprathom 2.Mr.Pantakarn Keaitpaisalsopon 3.Mr.Watcharakorn Thankaew	1.Mrs.Ubonrat katinhom 2.Mr.Tatsuki Awashima	

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Trang	1. C-easy Project	Software	Current information technology now has a role in our lifestyle more than ever. We may not think that technology has influence on the daily live of people, but it has become an important factor for living and succeeding in the communications business. Therefore the study of information technology is developing rapidly. This is enabling easier access to digital books because the new technology is something more interesting than textbooks. The technology can be used in order to present information in multiple formats. It can be applied to attract more users help them to learn more effectively, and allow them to understand very well. It is better than reading by yourself. Therefore, this technology will help the development of teaching through the medium of instruction. The learners will not	1. To tell the basic principles of programming. 2. To make the C programming language even more interesting by using games as a medium of instruction. 3. To promote the understanding of the programming language. 4. To encourage the use of free time to benefit development of information technology. 5. To develop CAI. Course C programming language to pass a computer network. 6. The results will be used to improve teaching and learning in schools.	1.Mr.Nuttawut Puntong 2.Ms.Witchaya Watcharaserikul 3.Ms.Satita Seeharun	1.Ms.Supinya Inkerd	Ms.Supinya Inkerd oh_supinya@hot mail.com +66-89-469-8940

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	2. Control the lawn mower by an applications on a smartphone	Applications	Mowing often create difficulties for people who cut the grass very much. Because the mower must stand outdoors in the sun for a long time. Sometimes the people who cut the grass, feeling faint. Or some grout and branches of a tree may be damage to the mower. We had the idea to create mower controlled by an application on a smartphone. To accommodate the people who cut the grass.	1. So convenient and work more easily. 2. So anyone can operate it. 3. To reduce the harm that would occur during operations. 4. To be able to operate in areas with high grass.	1.Ms.Nichapat Mala 2.Ms.Tantika Thongun	1.Ms. Supinya Inkerd	
	3. EVO 'Through the dimensions'	Applications	This project is about making game on the Android system. The storyboard will include the content of Biology by using our main character ,whose name is EVO, to lead the players. The players will play as EVO and they will meet so many types of ancient animals. In another way, each player could fight with some of dangerous animals and	To develop Game for Android operating system for learn about animals in the different landscapes In the past	1.Ms.Kanokporn Boonchoowong 2.Mr.Jirawat Arayapong 3.Ms.Sirapat Assawakowitgorn	1.Mrs.Mingkhwan Khaodee	

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			then the player will gain the detail from that animals. Another option in this game is the map. The players can choose where they want to start their new game so there would be different types of animals in the different landscapes. More than the enjoyment that the players will receive from this application, they will actually receive the knowledge about the simple Biology that we conceal it in the game.				
	4. The machine increase the performance of computer.	Hardware	Computers are taking an important role in many fields especially in the fields of research or stock market management which needs lots of information and data these fields need a fast and speedy computer Computer Cluster It works by dividing data from the host to the client to enhance the data	1. To study the system of a computer using computer Cluster and Super computer 2. To develop a machine to increase the analysis system of a computer 3. To make the machine better for use in the classroom or research	Mr.Nchapat Intong Mr.Poolchit Pongtit Mr.Sanpat Plabpancha	Mr.Chalerm Kwandam	

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			analysis to go faster				
Trang	5. Where is this place?	Applications	As people travel, they visit to fabulous places. They also like to check in that place to share their location to save moment. Travellers always find the new places to visit. So, We decide to develop application for to show the famous landmarks in Trang, our town. We will use GPS to direct and pin new places involve showing information of places for detail to traveller. User can create shared experiences of that space through application, request visiting such as specify theme surways, budgets, times, Age range of participant, Gender of participant, Vehicle ownership and accessibility of participant. The application also makes own account to use information easier.	1. Created to help all the travellers by helping them find the locations of the famous place or important place that they want to go. 2. All the traveller can write down their opinions their information their reviews their experiences that they have about those places too. 3. Each users will have their own accounts so they can manage and work on it easily User can create their account for log in.	1.Ms.Jiranee Trisat 2.Ms.Nichapad Sripanya 3.Ms.Warissara Lungkee	1.Ms.Suwimon Sornkhum	

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	6. Medical room Management Program	Software	This is the Software Program for clinic room System in school which consists of students policy ,list of student that use medicine, Medical beds arrangement, Reservation beds in medical room, Duty data inventory for clinic room,data base, Auto send list student, materials & appliances issuing program. This Program create by visual basic language and this program can run in Microsoft windows.	1.Able to store data of clinic room usage much comfortable and easy. 2.Able to collect students history from clinic room usage. 3.Able to check and reserve available beds in convenience purpose and prevent shortage. 4.Assist clinic in-charge's teacher as this program consists of medical health care and first aid instruction. 5.Assit to handle inventory system of medicine and clinic equipment. 6.Able to transmit data/report rapidly and much comfortable. 7.Easy to record students physical data i.e.	1.Mr.Chokchai Faroongsarng 2.Mr.Thapakorn Ngantaweekit 3.Mr.Suppachai Tantinititham	1.Ms.Suwimon Sornkhum	

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				height,weight,etc. 8.Convernience to take clinic report when need.			
Satun	1. Enjoy Healthy	Software	Nowadays, game is the part of children's and youth's life because it can buy and appreciate easily. They have to select the game that got high equality and useful for developing their skill. We are organizers see the significance in this case. So, we have an idea to create constructive and useful for every youth. The game that we create is knowledges about health and sanitation because in the present, somebody doesn't have knowledges about how to take care of their health and sanitation. Then, we want to create the game that can give some tips how to take care of their health and sanitation for children and youth have more	1.To develop the game about health care for those who need and those who are interested in health care. And it can understand about health care easier. 2.To learn through games. 3.To learn how to create a game from Adobe Flash Player.	1.Mr.Aswadee Rupayee 2.Ms.Warissara Rattanamoosik 3.Ms.Chonlada Riabroi	1.Mr.Pitak Keawprasert 2.Mr.Wichai Buaniaw	Mr. Wichai Buaniaw wc_16@hotmail.com +66-89-462-7327

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			knowledge about health and sanitation increasingly and can adapt some tips from the game to everyday life.				
	2. Trigon For Phone	Applications	Nowadays, technology has advanced rapidly into higher values. Especially smart phones. It would be developed to meet the needs of the people. Making it possible to develop wireless, web, such as Wi-Fi Edge 3G and 4G, the system will be mainly divided into two major categories, including the operating system, Android. IOS operating system and applications, which are applications available on the Apple operating system, some applications may only be used for some operating systems. Each application will be able to run applications such as various forms, Applications About language, Applications flight	The primary objective of the project is to create the applications in your device on Android operating system story trigonometry. The benefits that are expected to receive the application in your device can be used. Can be calculated correctly and is easy to use	1.Mr.Thanawat Punma 2.Ms.Amileena Maylamai 3.Ms.Wanpen Wiputthikunlawat	1.Ms.Narisara Binjekalee 2.Mr.Pitak Kaewprasert	

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			entertainment. The future application functions are developing more and more in a variety of formats in high school. Need to be educated about trigonometry. As part of the course of Science in Physics and Mathematics. The content must have the theories and formulas of various functions. This is arguably the most computational thereby. To confuse and trouble to learn about the way the organizers can do to produce learning materials and aids in determining the lessons trigonometry to guide education to students interested in. education Bachelor's shaved dimensions. The other one				
	3. Mixed Program	Software	The current program allows us to calculate a lot, whether it is a calculator program. Or other calculations that were made to	1. It is a tool to facilitate the calculation . 2. If can calculate the area of various geometric	1.Mr.Nuttaphat Rattanakarun 2.Ms.Noppawan Srisuwan	1.Mr.Wichai Buaniaw 2.Ms.Narisara Binjekalee	

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			facilitate the calculation. But today, these applications are all made to vary according to use. Such as the calculator program, it can be calculated only with no other calculations. For example, calculating the area of geometric shapes such as triangles, squares, circles and whether other shapes. From research programs on various calculations. It consists of comfortable use. To monitor the needs of the user. I invented to create groups of applications calculation is called. "The Goodies" program, which is a group of programs that I have prepared a program that includes. Calculator program The program calculates the area and various geometric shapes. Which brings us to the third calculator to calculate the area and in the same application without the	shapes more quickly . 3. The technology has been applied for the benefit . 4. A guide for people interested in adopting this tool to calculate various programs to further research and development to	3.Ms.Wipavanee Jaratkhoerkoolphon		

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			hassle of installing multiple applications. .				

*** Number of Group: Software = 9, Hardware= 6, Applications=15, IoT= 6, Robotics= 9 totally = 45 projects